2019-2020

UNDERGRADUATE CATALOG

SUMMER B 2019 - SUMMER A 2020





UF | UNIVERSITY of FLORIDA

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UNDERGRADUATE CATALOG

Accreditation

The University of Florida is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award bachelor, master, specialist, engineer, doctoral, and professional degrees.

Contact

Southern Association of Colleges and Schools Commission on Colleges
1866 Southern Lane
Decatur, Georgia 30033-4097
404.679.4500
More Info (http://sacscoc.org)

Publication Policy

The undergraduate catalog is published annually by the University of Florida and has been adopted as a rule of the university pursuant to the provision of Chapter 120 of the Florida Statutes.

Published editions of this official record correspond to an academic year and will remain in effect as published from the Summer B (June) term through the following Summer A (late May) term.

The undergraduate catalog provides official university rules, policies and regulations; it establishes minimum eligibility requirements for admission and reflects degree requirements; it provides approved calendar and curricular information; and it contains general information about the university community, the university, and its services and facilities.

Changes will be made to this academic record to correct errors or omissions. The university is not responsible for information obtained through Internet links from this catalog to other websites. Every effort has been made to ensure the accuracy of information. However, all dates and deadlines, courses, course descriptions, degree requirements, and fees are subject to change.

Administration

President's Welcome

Greetings! I offer you my warmest welcome to the University of Florida and to the beginning of a new academic year.

UF is wonderfully diverse and comprehensive, with more than 100 undergraduate majors, more than 200 graduate programs, an amazing variety of experiential learning opportunities and numerous undergraduate and graduate students participating in research and scholarship.

Our excellent faculty are committed to teaching and interacting with students to both challenge your academic skills and encourage you to think in new ways. Our nationally renowned academic support professionals will help you navigate your courses and major – and our student affairs staff are eager to assist with orientation, career counseling, leadership and volunteering opportunities and all the aspects of student life.

You are at the University of Florida at a great time in our history, a time when the State of Florida and the Gator Nation are united behind our shared ambitions to be one of the very best universities in the world. I encourage you to be a part of this journey by fully embracing your experience at UF – taking classes that challenge you, as well as those that appeal to your career interests and curiosity; finding opportunities to learn and serve outside of the classroom; and making new friends by reaching out to faculty, staff and students across UF's very diverse community.

This catalog will give you a starting point by providing the information and tools you need to explore UF's broad selection of courses and majors and discover our many student services. I hope that you spend time exploring your options so that you have a sense of the full range and depth of possibilities before you.

I know that you are among the most academically accomplished students in the nation, and I look forward to seeing what you and our university can achieve together.

Have a wonderful year, and Go Gators!

W. Kent Fuchs
President

Mission Statement

The University of Florida is a comprehensive learning institution built on a land-grant foundation. We are The Gator Nation, a diverse community dedicated to excellence in education and research and shaping a better future for Florida, the nation and the world.

Our mission is to enable our students to lead and influence the next generation and beyond for economic, cultural and societal benefit.

The university welcomes the full exploration of its intellectual boundaries and supports its faculty and students in the creation of new knowledge and the pursuit of new ideas.

- **Teaching** is a fundamental purpose of this university at both the undergraduate and graduate levels.
- **Research and scholarship** are integral to the educational process and to the expansion of our understanding of the natural world, the intellect and the senses.
- **Service** reflects the university's obligation to share the benefits of its research and knowledge for the public good. The university serves the nation's and the state's critical needs by contributing to a well-qualified and broadly diverse citizenry, leadership and workforce.

The University of Florida must create the broadly diverse environment necessary to foster multi-cultural skills and perspectives in its teaching and research for its students to contribute and succeed in the world of the 21st century.

These three interlocking elements — teaching, research and scholarship, and service — span all the university's academic disciplines and represent the university's commitment to lead and serve the state of Florida, the nation and the world by pursuing and disseminating new knowledge while building upon the experiences of the past. The university aspires to advance by strengthening the human condition and improving the quality of life.

Administrators

President of the University of Florida

W. Kent Fuchs

University Administrators

Elias G. Eldayrie

Vice President, Chief Information Officer

Zina Evans
Vice President for Enrollment Management and Associate Provost

Antonio Farias
Chief Diversity Officer, Senior Advisor to the President

Jodi Gentry
Vice President, Human Resource Services

Joe Glover
Provost and Senior Vice President, Academic Affairs

Amy M. Hass
Vice President, General Counsel

Edward Jimenez
Chief Executive Officer, UF Health Shands

Mark Kaplan
Vice President for Government and Community Relations

Charles E. Lane
Senior Vice President, Chief Operating Officer

Michael V. McKee
Vice President, Chief Financial Officer

Thomas J. Mitchell
Vice President, Advancement

David R. Nelson
Interim Senior Vice President Health Affairs, President UF Health

David Norton
Vice President, Research

Nancy Paton
Vice President for Strategic Communications and Marketing

Jack Payne
Senior Vice President, Agriculture and Natural Resources

Win Phillips
Executive Chief of Staff; Interim Vice President for Student Affairs

Curtis Reynolds
Vice President, Business Affairs

Scott Stricklin
Director of Athletics, University Athletic Association

- University Board of Trustees (http://trustees.ufl.edu/about-the-board)
- Florida Department of Education (http://www.fldoe.org)
- Florida Board of Governors (http://www.flbog.edu)

Office Directory

- Faculty and Staff (https://directory.ufl.edu)
  UF Directory

University Office Directory

Persons with hearing impairments should use the Florida Relay Service number when a TDD number is not listed. The FRS number is 1.800.955.8771 TDD.

A

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100 Farrior Hall
P.O. Box 112015, University of Florida
Gainesville, FL 32611-2015

352.392.1521

Map (http://campusmap.ufl.edu/?loc=0019) More Info (http://www.advising.ufl.edu)

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P.O. Box 117166, University of Florida
Gainesville, FL 32611-7166

352.273.0200

Map (http://campusmap.ufl.edu/?loc=0054) More Info (http://warrington.ufl.edu/accounting)

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352.392.7056, V
352.846.1046, TDD

Map (http://campusmap.ufl.edu/?loc=0179) More Info (http://www.ehs.ufl.edu/programs/ada)

Admissions, Office of
201 Criser Hall
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Gainesville, FL 32611-4000

352.392.1365

Map (http://campusmap.ufl.edu/?loc=0031) More Info (http://www.admissions.ufl.edu)

Agricultural and Life Sciences, College of
2002 McCarty Hall D
P.O. Box 110270, University of Florida
Gainesville, FL 32611-0270

352.392.1963

Map (http://campusmap.ufl.edu/?loc=0498) More Info (http://cals.ufl.edu)

Arts, College of the
101 Fine Arts Building A
P.O. Box 115800, University of Florida
Gainesville, FL 32611-5800

352.392.0207

Map (http://campusmap.ufl.edu/?loc=0597) More Info (http://www.arts.ufl.edu)

Athletic Association Ticket Office
P.O. Box 14485
Gainesville, FL 32604

352.375.4683, ext. 6800

Map (http://campusmap.ufl.edu/?loc=0157) More Info (http://www.gatorzone.com/tickets)

B

Bookstore
Inside the Reitz Union

Museum Road and Reitz Union Drive, Bldg. 886
P.O. Box 118450
Gainesville, FL 32611-8450

352.392.0194

Map (http://campusmap.ufl.edu/?loc=0886) More Info (https://www.bkstr.com/floridastore/home)

Business, Warrington College of
Heavener School of Business
133 Bryan Hall
P.O. Box 117160, University of Florida
Gainesville, FL 32611-7160

352.273.0165

Map (http://campusmap.ufl.edu/?loc=0006) More Info (http://warrington.ufl.edu/undergraduate)

C

Career Connections Center
CR 100, J. Wayne Reitz Union
P.O. Box 118507, University of Florida
Gainesville, FL 32611-8507

352.392.1601

Map (http://campusmap.ufl.edu/?loc=0686) More Info (https://career.ufl.edu)

Construction Management, M.E. Rinker, Sr. School of
304 Rinker Hall
P.O. Box 115703, University of Florida
Gainesville, FL 32611-5703

352.273.1150

Map (http://campusmap.ufl.edu/?loc=0272) More Info (http://www.bcn.ufl.edu)

Counseling Center
2 locations

301 Peabody Hall
P.O. Box 114100, University of Florida
Gainesville, FL 32611-4100

352.392.1576

3190 Radio Road
P.O. Box 114100, University of Florida
Gainesville, FL 32611-4100

352.392.1575

Map (http://campusmap.ufl.edu/?loc=0004) More Info (http://www.counseling.ufl.edu)

D

Dean of Students Office
202 Peabody Hall
P.O. Box 114075, University of Florida
Gainesville, FL 32611-4075

352.392.1261

Map (http://campusmap.ufl.edu/?loc=0004) More Info (https://www.dso.ufl.edu)

Dentistry, College of
D3-5 Health Science Center
P.O. Box 100445, University of Florida
Gainesville, FL 32610-0445

352.273.5955

Map (http://campusmap.ufl.edu/?loc=0205) More Info (http://dental.ufl.edu)

Design, Construction and Planning, College of
331 Architecture Building
P.O. Box 115701, University of Florida
Gainesville, FL 32611-5701

352.392.4836

Map (http://campusmap.ufl.edu/?loc=0268) More Info (http://www.dcp.ufl.edu)

Disability Resource Center
001 Reid Hall, Bldg. 0020
P.O. Box 114085, University of Florida
Gainesville, FL 32611-4075

352.392.8565, ext. 200, V
352.392.3008, TDD

Map (http://campusmap.ufl.edu/?loc=0020) More Info (https://www.dso.ufl.edu/index.php/drc)

Distance and Continuing Education Flexible Learning
2124 NE Waldo Road, Suite 1101
Gainesville, FL 32609

352.392.12137

More Info 1 (http://www.dce.ufl.edu) More Info 2 (http://flexible.dce.ufl.edu)

E

Education, College of
140 Norman Hall
P.O. Box 117040, University of Florida
Gainesville, FL 32611-7040

352.392.0726

Map (http://campusmap.ufl.edu/?loc=0101) More Info (http://education.ufl.edu)

Engineering, College of
312 Weil Hall
P.O. Box 116550, University of Florida
Gainesville, FL 32611-6550

352.392.2177

Map (http://campusmap.ufl.edu/?loc=0024) More Info (http://www.eng.ufl.edu)

F

Forest Resources and Conservation, School of
121 Newins-Ziegler Hall
P.O. Box 110410, University of Florida
Gainesville, FL 32611-0410

352.846.0847

Map (http://campusmap.ufl.edu/?loc=0832) More Info (http://www.sfrc.ufl.edu)

G

Graduate School
164 Grinter Hall
P.O. Box 115500, University of Florida
Gainesville, FL 32611-5515

352.392.6622

Map (http://campusmap.ufl.edu/?loc=0002) More Info (http://www.graduateschool.ufl.edu)

H

Health and Human Performance, College of
200 Florida Gym
P.O. Box 118200, University of Florida
Gainesville, FL 32611-8200

352.392.0578

Map (http://campusmap.ufl.edu/?loc=0021) More Info (http://hhp.ufl.edu)

Honors Program
1 Fletcher Drive, 343 Infirmary
P.O. Box 113260, University of Florida
Gainesville, FL 32611-3260

352.392.1519

Map (http://campusmap.ufl.edu/?loc=0018) More Info (http://www.honors.ufl.edu)

Housing and Residence Education, Department of
S.W. 13th Street and Museum Road
P.O. Box 112100, University of Florida
Gainesville, FL 32611-2100

352.392.2161

Map (http://campusmap.ufl.edu/?loc=0753) More Info (http://www.housing.ufl.edu)

I

International Center
170 Hub, Stadium Road
P.O. Box 113225, University of Florida
Gainesville, FL 32611-3225

352.392.5323

Map (http://campusmap.ufl.edu/?loc=0032) More Info (http://www.ufic.ufl.edu)

J

Journalism and Communications, College of
1000 Weimer Hall
P.O. Box 118400, University of Florida
Gainesville, FL 32611-8400

352.392.1124

Map (http://campusmap.ufl.edu/?loc=0030) More Info (http://www.jou.ufl.edu)

L

Latin American Studies, Center for
319 Grinter Hall
P.O. Box 115530, University of Florida
Gainesville, FL 32611-5530

352.392.0375

Map (http://campusmap.ufl.edu/?loc=0002) More Info (http://www.latam.ufl.edu)

Law, Fredric G. Levin College of
164 Holland Hall
P.O. Box 117621, University of Florida
Gainesville, FL 32611-7621

352.273.0890

Map (http://campusmap.ufl.edu/?loc=0757) More Info (http://www.law.ufl.edu)

Liberal Arts and Sciences, College of
100 Academic Advising Center, Farrior Hall
P.O. Box 112015, University of Florida
Gainesville, FL 32611-2015

352.392.1521

Map (http://campusmap.ufl.edu/?loc=0019) More Info (http://www.clas.ufl.edu)

Libraries
P.O. Box 117001, University of Florida
Gainesville, FL 32611-7001

Architecture & Fine Arts: 352.273.2805

Education: 352.273.2780

Health Science Center: 352.273.8400

Journalism: 352.273.2770

Judaica (Price): 352.273.2791

Legal Information Center: 352.273.0700

Library East (Smathers): 352.273.2745

Library West: 352.273.2525

Marston Science: 352.273.2851

Music: 352.273.2815

Vet Med Education Center: 352.294.4220

More Info (http://www.uflib.ufl.edu)

M

Medicine, College of
Student Affairs and Registration

M-125 Health Science Center
P.O. Box 100216, University of Florida
Gainesville, FL 32610-0216

352.273.7971

Map (http://campusmap.ufl.edu/?loc=0212) More Info (http://med.ufl.edu)

Military Science, Division of
Air Force
204 Van Fleet Hall
P.O. Box 118535, University of Florida
Gainesville, FL 32611-8535

352.392.1355

Map (http://campusmap.ufl.edu/?loc=0023) More Info (http://www.afrotc.ufl.edu)

Army
103 Van Fleet Hall
P.O. Box 118536, University of Florida
Gainesville, FL 32611-8536

352.392.1395

Map (http://campusmap.ufl.edu/?loc=0023) More Info (http://www.goarmy.com/rotc/schools/university-of-florida.html)

Navy
20 Van Fleet Hall
P.O. Box 118537, University of Florida
Gainesville, FL 32611-8537

352.392.0973

Map (http://campusmap.ufl.edu/?loc=0023) More Info (http://nrotc.ufl.edu)

N

Natural Resources and Environment, School of
103 Black Hall
P.O. Box 116455, University of Florida
Gainesville, FL 32611-6455

352.392.9230

Map (http://campusmap.ufl.edu/?loc=0724) More Info (http://www.snre.ufl.edu)

Nursing, College of
G-205 HPNP Complex
101 South Newell Drive
P.O. Box 100197, Health Science Center, University of Florida
Gainesville, FL 32610-0197

352.273.6400

Map (http://campusmap.ufl.edu/?loc=0212) More Info (http://nursing.ufl.edu)

P

Pharmacy, College of
G-232 HPNP Complex
P.O. Box 100495, Health Science Center, University of Florida
Gainesville, FL 32610-0495

352.273.6217

Map (http://campusmap.ufl.edu/?loc=0212) More Info (http://pharmacy.ufl.edu)

Physician Assistant Program, College of Medicine
1329 S.W. 16 Street, Suite 1160
P.O. Box 100176, Health Science Center, University of Florida
Gainesville, FL 32610-0176

352.265.7955

Map (http://campusmap.ufl.edu/?loc=0212) More Info (http://pap.med.ufl.edu)

President, Office of the
226 Tigert Hall
P.O. Box 113150
Gainesville, FL 32611-3150

352.392.1311

Map (http://campusmap.ufl.edu/?loc=0026) More Info (http://president.ufl.edu)

Provost and Senior Vice President, Office of the
235 Tigert Hall
P.O. Box 113175
Gainesville, FL 32611-3175

352.392.2404

Map (http://campusmap.ufl.edu/?loc=0026) More Info (http://www.aa.ufl.edu)

Public Health and Health Professions, College of
G–205 HPNP Complex, 1225 Center Drive
P.O. Box 100185, Health Science Center, University of Florida
Gainesville, FL 32610-0185

352.273.6214

Map (http://campusmap.ufl.edu/?loc=0212) More Info (http://phhp.ufl.edu)

R

Registrar, Office of the University

222 Criser Hall
P.O. Box 114000, University of Florida
Gainesville, FL 32611-4000

352.392.1374

Map (http://campusmap.ufl.edu/?loc=0031) More Info (http://www.registrar.ufl.edu)

Reitz Union, J. Wayne

Museum Road
P.O. Box 118505, University of Florida
Gainesville, FL 32611-8505

352.392.1649

Map (http://campusmap.ufl.edu/?loc=0686) More Info (http://www.union.ufl.edu)

S

Student Financial Affairs

Financial Aid

107 Criser Hall
P.O. Box 114025, University of Florida
Gainesville, FL 32611-4025

352.392.1275

Map (http://campusmap.ufl.edu/?loc=0031) More Info (http://www.sfa.ufl.edu)

Student Health Care Center

The Infirmary

1 Fletcher Drive
P.O. Box 117500, University of Florida
Gainesville, FL 32611-7500

352.392.1161

Map (http://campusmap.ufl.edu/?loc=0018) More Info (http://shcc.ufl.edu)

T

Transportation and Parking

And Campus Bus Service

Customer Service
240 Gale Lemerand Drive
P.O. Box 112400, University of Florida
Gainesville, FL 32611-2400

352.392.2241

Map (http://campusmap.ufl.edu/?loc=0254) More Info (http://www.parking.ufl.edu)

U

University Bursar

Financial Services and Student Accounts

113 Criser Hall
P.O. Box 114050, University of Florida
Gainesville, FL 32611-4050

352.392.0181

Map (http://campusmap.ufl.edu/?loc=0031) More Info (http://www.fa.ufl.edu/bursar)

University Police

Building 51, Museum Road
P.O. Box 112150, University of Florida
Gainesville, FL 32611-2150

352.392.1111

Map (http://campusmap.ufl.edu/?loc=0027) More Info (http://www.police.ufl.edu)

V

Veterinary Medicine, College of

2015 S.W. 16 Avenue
P.O. Box 100125, University of Florida
Gainesville, FL 32610-0125

352.392.4700

Map (http://campusmap.ufl.edu/?loc=0215) More Info (http://www.vetmed.ufl.edu)

W

Welcome Center

Inside the Reitz Union

Museum Road and Reitz Union Drive
Gainesville, FL 32611-8450

352.392.2959

Map (http://campusmap.ufl.edu/?loc=0886) More Info (http://www.admissions.ufl.edu/visit.html)

Admission

Few students are admitted purely on academic merit. While the potential for academic success is a primary consideration, UF's comprehensive holistic application review also considers personal essays, academic awards, extracurricular activities, family background and home community. All information in the applicant's file, academic and non-academic, is considered in relation to the size and strength of the applicant pool.

Admission Information for all Applicants

The general requirements below apply to undergraduate admission and readmission to any college or division of the university.

Please understand that admission to the university is selective. Only minimum requirements for admission are provided; satisfaction of these *minimums* does not guarantee admission:

- Online application for admission received by the Office of Admissions by the deadline.
- A non-refundable application fee plus $5 processing fee. Students who are eligible can have their application fee waived..
- A satisfactory academic record. Applicants must provide a complete chronological record of educational institutions attended. Official transcripts from all educational institutions must be submitted according to instructions on the application. Failure to declare attendance at another institution could invalidate an offer of admission and any credits or degrees earned.
- Satisfactory scores on achievement or aptitude tests; the SAT, ACT, and/or TOEFL.
- A satisfactory conduct record.
- Applicants must identify a preferred term of enrollment whether summer B, fall or spring on their application. The application may be considered for and admission may be offered to terms other than the preferred term specified on the application. Applicants who wish to change their term of entry should contact the Office of Admissions immediately.
- Admission to on-campus degree programs must be validated by taking one or more on-campus courses in the specific semester for which the student is accepted. Correspondence and/or Web courses do not fulfill this requirement, and this rule does not apply to Web-based degree programs.

Residency for Tuition Purposes

Requests for in-state residency for tuition purposes are not granted to applicants who appear to have entered the state solely for educational purposes.
More Info (http://www.admissions.ufl.edu/residency.html)

Proof of Immunization

Before registering for classes, each person accepted for admission must submit proof of immunization. No student will be permitted to register until the Student Health Care Center has received and approved the mandatory health form.
More Info (http://shcc.ufl.edu/services/primary-care/immunizations)

Computer Requirement

Access to and ongoing use of a computer is required of all students. The university expects new students and continuing students to acquire computer hardware and software appropriate to the degree program. The cost of meeting this requirement will be included in financial aid considerations.
More Info (https://it.ufl.edu/policies/student-computing-requirements)

All official university correspondence is sent via email to the student's GatorLink email address.

Notice of Admission

When an application for admission is approved, the university will send a notice of admission for a specific term. If the student is unable to enroll for the term indicated or wishes to be considered for entrance to a different term, the Office of Admissions should be notified immediately.

All offers of admission are tentative and will remain so until the Office of Admissions receives and reviews final transcripts and credentials. Students who are admitted conditionally may enroll, subject to verification of satisfaction of all conditions of admission. Admission offers will be revoked if final coursework/credentials do not meet admission requirements. Should that occur, the student's classification will change to a non-degree status and enrollment will be denied.

Under no circumstances should an applicant make plans to depart for Gainesville until the university has provided official admission notification. An applicant who comes to campus without confirmation of admission does so entirely at their own risk. Presence on campus will not influence the admission decision.

Applicants who furnish false or fraudulent statements or information in connection with an application for admission or residence affidavit could receive disciplinary action, denial of admission and invalidation of credits or degrees earned.

Under Board of Education policy, the university can admit a limited number of students as exceptions to the requirements listed above.

Freshmen

Current high school students seeking college freshman placement and students who have earned fewer than 12 semester credits following graduation from high school.

Applicants who received their high school diploma and an Associate of Arts degree at the same time should complete the **freshman application**, which will be evaluated for both freshman and junior-level admission standards.

How to Apply

As a member of the Coalition for Access, Affordability, and Success, the University of Florida uses the Coalition Application. Applicants must complete all sections of the application, including the Student Profile and the UF supplemental section.
Apply Online (http://admissions.ufl.edu/apply/freshman)

When to Apply

Admission priority is provided to qualified applicants whose applications and supporting documents are received by the Office of Admissions during the preferred application period from mid-August through November 1. Applications received outside this period will be considered on a space-available basis only.

Incoming Freshman Deadlines

- The freshman application period is mid-August through November 1, regardless of entering term.
- Freshman decisions will be available in mid-February for students who applied by November 1.

Freshman Selection

The selection process is based on the applicant's academic credentials and a holistic review of the application. It is very difficult to predict the admissibility of any applicant without considering all information contained in the application and the size and strength of the applicant pool. All factors must be considered in the admission review.

The Office of Admission considers an applicant's total high school record, including grades, test scores, educational objective and pattern of courses completed, and personal background and experiences. Admission becomes selective when the number of qualified applicants exceeds the number of freshman spaces available.

Minimum Requirements for Freshman Admission Consideration

Middle 50% of the 2019 Freshman Class

- High school GPA of 4.3-4.6
- SAT scores of 1330-1460
- ACT scores of 29-33

Minimum freshman admission requirements include:

- Graduation from a regionally accredited secondary school or the equivalent (G.E.D., etc.).
- 18 academic units, 16 distributed as follows:

Subject	Required Years
English (with substantial writing)	4 years
Mathematics (Algebra 1, Formal Geometry, Algebra 2)	4 years
Natural Sciences (two units must include laboratory)	3 years
Social Sciences	3 years
Foreign Language (must be sequential)	2 years

- A cumulative C (2.0) average in the academic core, as computed by the university, at all institutions attended, high school and college.
- A record of good conduct. Major or continuing difficulty with school or other officials may render an applicant ineligible regardless of academic qualifications.

Home Schools and Non-Accredited Schools

In addition to the freshman application requirements listed above, homeschooled students and students attending non-accredited schools must complete the following additional requirements:

- Send transcripts from all previous institutions you have attended, including a homeschool transcript.
- Submit scores from the SAT Subject Tests in mathematics (Level II-C), foreign language, science and social science if you have not completed two courses in a specific subject area at an accredited institution, such as a local high school, Florida Virtual School, or a state community college.

Credit by Examination

There are several credit-by-examination programs that earn credit toward a UF degree. The university participates in the Advanced Placement (AP) program (p. 1408), the College Level Examination Program (CLEP) (p. 1408), the International Baccalaureate (IB) program (p. 1408) and the

Advanced International Certificate of Education (AICE) (p. 1408). Students may receive university credit for or exemption from such courses without credit, depending on the results.

Dual-Enrollment Credit

Courses from Florida public colleges and State University System schools generally adhere to the Statewide Course Numbering System. If the prefix (first three letters) and the last three digits of the course number are the same, then the course is considered equivalent.

Equivalent courses will generally fulfill the same requirements (e.g., general education) that the UF course fulfills. However, whether a course fulfills UF's writing requirement is determined by specific criteria, not course number equivalency.

Courses taken at private and out-of-state institutions need to be evaluated by the student's college to determine if they will fulfill specific requirements.

Tuition Deposit after Admission

- Freshmen are required to submit a **$200 non-refundable tuition deposit** no later than **May 1** to secure their place in the class.
- The tuition deposit **will not be reimbursed** if the student does not enroll in the term offered for admission.
- The tuition deposit will be credited to the student's account and applied toward the first-semester tuition. If there is a credit balance on the account at the end of drop/add, the balance will be refunded.
- This deposit is waived for those students who qualified for an SAT or ACT fee-application waiver. Students who qualify for Pell Grants may receive a tuition deposit reduction if they appeal.

International Students

The Office of Admissions classifies an applicant as an undergraduate if they have not earned a university degree equivalent to a U.S. bachelor's degree.

How to Apply

International applicants must apply online.
Apply Online (http://admissions.ufl.edu/apply/international)

Applications cannot be considered until the Office of Admissions receives ALL required credentials. International applicants should supply the following:

- All international applicants should apply online.
- Submit the non-refundable $30 application fee (U.S. currency drawn on a U.S. bank or credit card).
- Submit appropriate test scores:
  - Freshmen must submit official SAT or ACT scores.
  - Applicants whose native language is not English must submit official scores from the Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS) or the Michigan English Lab Assessment Battery (MELAB)
  - Applicants are exempt from the English proficiency requirement if enrolled for one academic year in a degree-seeking program at a recognized/regionally accredited university or college in a country where English is the official language prior to your anticipated term of enrollment or if you are from one of the following countries.
    More Info (http://admissions.ufl.edu/apply/international/countries.html)
- International freshman applicants are required to submit secondary credentials from non-U.S. institutions to a credential evaluation agency for a course-by-course evaluation with grade point average calculation. International transfer applicants are also required to submit college or university credentials from non-U.S. institutions to a credential evaluation agency for a courses-by-course evaluation with grade point average calculation.

Transfer Students

A transfer student is defined as an applicant who has earned at least 12 semester credits of credit following graduation from high school and who has not received a bachelor's degree.

How to Apply

Transfer applicants must apply online.
Apply Online (http://www.admissions.ufl.edu/apply/transfer)

When to Apply

Transfer applicants generally are received six to nine months before the term begins. Apply by your intended college's deadline.

More Info (http://www.admissions.ufl.edu/apply/transfer/trapdates)

Transfer Eligibility

- Must have completed an Associate of Arts degree from a Florida public institution or at least 60 transferable semester credit hours from a regionally accredited institution
- Must show proficiency in a foreign language. Students can do this by providing a high school transcript showing completion of two years of the same foreign language OR by completing 8-10 semester hours by the same foreign language.
- Must have a minimum 2.0 overall GPA and a minimum 2.0 GPA at the last institution attended as calculated by UF.
- Must complete or will complete specific requirements for intended major before attending UF.
- Must be in good standing and eligible to return to any institution previously attended.

Students with less than 60 semester credit hours or who have already completed a bachelor's degree are not eligible to transfer to an on-campus program.

Readmission to the University

Readmission applies to students who have been previously admitted and who have attended this university.

Undergraduate students who do not enroll at the university for two consecutive terms, including any summer term, must apply for readmission. Readmission, however, is not guaranteed and is subject to availability at the appropriate level, college or major. Students who skip a single term will be scheduled automatically for a registration appointment for one additional term.

Readmission applies to undergraduate students who have previously been admitted to and attended the University of Florida, at any level. Students who do not enroll at the university for two consecutive terms, including any summer term, must apply for readmission.

Readmission is not guaranteed and is subject to availability at the appropriate level, college and major. Contact the college/department you will be applying to for questions regarding availability.

Apply Online (http://www.admissions.ufl.edu/start.html)

Readmission Requirements

- Satisfactory Academic Records: If you have attended any college or university since you were last enrolled at the University of Florida, you must have a C or higher average (as computed by UF) on all work attempted at each institution. Be aware that grades received at other institutions are not averaged with grades received at UF for the purpose of meeting the university's grade point average requirements.
- Students must indicate the college and the level of their last enrollment at UF and must also list all institutions attended since leaving UF and provide complete official transcripts from each before the application deadline.
- Students must be in good standing and eligible to return to each institution previously attended.
- Students must indicate the degree program and/or major to which they want to apply or return.
- Students must meet the current admission requirements of the college or school that they expect to enter.
- Satisfactory Conduct Record: Applicants must present a satisfactory record of conduct.

Fresh Start

Former undergraduate degree-seeking students who have been dismissed and who wish to return to the University of Florida after an absence of no fewer than five calendar years (during which they have engaged predominantly in non-academic activities) may petition for undergraduate readmission under the Fresh Start Program.

If a student is readmitted, credit for previous UF courses in which minimum grades of C were earned will be calculated in UF credits earned and may be applied toward a degree. No grades previously earned in UF courses will be included in the UF grade point average. All previous course attempts and grades received will remain on the student's academic record and transcript.

Students cannot apply for the Fresh Start Program subsequent to readmission to the university. Students who have been readmitted under Fresh Start cannot petition subsequently for any retroactive change to their academic records. Students admitted under Fresh Start who do not enroll must reapply for a future term.

For additional information on policy and procedures, former students who wish to petition for readmission under the Fresh Start Program should contact the dean of the college into which they seek readmission.

Each student is responsible for becoming familiar with the rules and regulations of the university and for applying them as appropriate. Additional information relative to academic rules, conduct, graduation, social activities and failure in studies can be found in the sections containing regulations of the colleges and schools.

Additional Admission Information

- All Applicants (p. 15)
- Readmission Deadlines (http://www.admissions.ufl.edu/ugrad/readmission.html)

Residency for Tuition Purposes

Few students are admitted purely on academic merit. While the potential for academic success is a primary consideration, UF's comprehensive holistic application review also considers personal essays, academic awards, extracurricular activities, family background and home community. All information in the applicant's file, academic and non-

academic, is considered in relation to the size and strength of the applicant pool.

The deadline for applying for a change in residency status (http://www.registrar.ufl.edu/currents/residencychange.html), including receipt of all documentation, is each term's fee payment deadline (p. 1442). Residency reclassification cannot be applied for retroactively for previous terms.

All Florida public institutions of higher education shall maintain consistent policies and practices for the classification of students as residents for tuition purposes to facilitate the transfer of students among institutions. The policies and practices may vary to accommodate differences in governance, but the determination of classification shall be consistent to assure students of being classified the same regardless of the institution determining the classification, as long as no contradictory evidence indicates the classification is incorrect.

Determination of Residency for Tuition Purposes

- **Applicants:** consult the Admissions website (http://www.admissions.ufl.edu/residency.html).
- **Current UF Students:** consult the Registrar website (http://www.registrar.ufl.edu/currents/residencychange.html).
- Florida State Statute 1009.21 (http://www.leg.state.fl.us/Statutes/index.cfm?App_mode=Display_Statute&URL=1000-1099/1009/Sections/1009.21.html)
- Florida Board of Governor's Regulation 7.005 (http://www.flbog.edu/documents_regulations/regulations/7_005ResidencyforTuitionPurposesSept2015.pdf)
- Florida Residency Guidelines (https://www.floridashines.org/documents/111597/112691/09.22.16+Florida+Tuition+Residency+Guidelines.pdf/e726c0fd-3784-428d-aa27-74cc04db218f)

Applicants Receiving VA and Social Security Benefits

Few students are admitted purely on academic merit. While the potential for academic success is a primary consideration, UF's comprehensive holistic application review also considers personal essays, academic awards, extracurricular activities, family background and home community. All information in the applicant's file, academic and non-academic, is considered in relation to the size and strength of the applicant pool.

VA Benefits

UF Office of Veterans Services (http://www.veterans.ufl.edu)

The University of Florida is approved by the Florida Department of Veterans Affairs (VA) to educate and train veterans, their spouses or their dependents (100 percent permanent and totally disabled or deceased service connected).

Ten federal public laws currently provide education/job-training programs for VA-eligible students.

Five programs serve most students:

- Chapter 30 for U.S. Military Veterans
- Chapter 31 for Disabled U.S. Military Veterans
- Chapter 33 for U.S. Military Veterans or dependents of veterans
- Chapter 35 for Spouse and Children of Deceased or 100 percent (permanent and totally) Disabled Veterans (service connected), and
- Chapter 1606 for personnel in the National Guard or U.S. Military Reserves.
- Chapter 1607 for personnel in the National Guard or U.S. Military Reserves called or ordered to active duty in response to a war or national emergency (contingency operation) as declared by the President or Congress. Members may be eligible after serving 90 consecutive days on active duty after September 11, 2001.

UF's Office of Veterans Affairs in 222 Criser Hall coordinates veterans services and specific program information. Eligible students must submit an Application for Educational Benefits and request certification for full-time or part-time educational benefits in accordance with VA rules and regulations.

This office also can provide confirmation of student status for VA health care or other benefits. Additionally, the University of Florida provides military training to college credit evaluation and encourages all veterans to request this service from the campus veterans advocate.

A full-time fall and spring semester undergraduate load for VA benefits is 12 credits per semester; a full-time fall and spring semester graduate load is 9 credits. Summer terms full and part-time enrollment requirements differ. Students should refer to the UF VA website for specific information about summer credit requirements.

The Atlanta Regional Processing Office of the U.S. Department of Veterans Affairs determines eligibility based on official service records, evidence submitted by the student and applicable laws. Students with established VA program eligibility at another college or university must submit a Change of Program or Place of Training and a UF enrollment verification request to 222 Criser Hall.

Chapter 30, 1606 and 1607 program participants are required to verify attendance each month to the federal VA. Verification can be done on the Web Automated Verification of Enrollment (WAVE) (https://www.gibill.va.gov/wave) page, or veterans can call 1.877.823.2378.

At the end of the term, if an undergraduate student's cumulative grade point average falls below a 2.0 (C) average, the student will receive an academic warning. If at the end of the next term of enrollment, the cumulative GPA remains below 2.0, the student's educational benefits will be terminated and the DVA will be notified of the student's unsatisfactory progress for VA pay purposes. Students must meet the conditions for UF readmission to become eligible again for VA educational programs.

Social Security Benefits

Inquiries related to Social Security benefits should be directed to the student's local Social Security Office. The Office of the University Registrar will complete enrollment certificates issued by the Social Security Administration for students eligible to receive educational benefits, as long as the student is a full-time undergraduate.

A full-time undergraduate load for Social Security benefits is 12 credits per semester; a full-time graduate load is nine credits.

- Admission Information for All Applicants (p. 15)

Academic Programs

Undergraduate Programs

- Accelerated Degrees (p. 1399)
- Certificates (p. 1379)
- Colleges and Schools (p. 40)
- Combined Degrees (p. 1400)
- Dean's List (p. 1385)
- General Education (p. 21)
- Graduating with Honors (p. 1387)
- Honor Roll (p. 1385)
- Majors (p. 1378)
- Minors (p. 1379)
- Majors, UF Online (http://catalog.ufl.edu/UGRD/programs/#filter=filter_22&filter_26)
- Minors, UF Online (http://catalog.ufl.edu/UGRD/programs/#filter=filter_23&filter_26)
- UF Online (http://ufonline.ufl.edu)

Special Programs

- Academic Honors (p. 1385)
- Bob Graham Center for Public Service (http://www.bobgrahamcenter.ufl.edu)
- Innovation Academy (http://innovationacademy.ufl.edu)
- Latin-American Studies, Center for (p. 24)
- Military Science, Division of (p. 25)

Graduate and Professional Programs

- Dentistry, College of (p. 30)
- Law, College of (p. 31)
- Medicine, College of (p. 32)
- Pharmacy, College of (p. 33)
- Veterinary Medicine, College of (p. 39)
- The Graduate School (http://www.graduateschool.ufl.edu)
  - Graduate Catalog (http://gradcatalog.ufl.edu)

General Education

The General Education Program (Gen Ed) supports the mission of the University of Florida by providing undergraduate students with common collective knowledge about the world in which they live. The curriculum enables students to think creatively, reason critically, communicate effectively, and make informed decisions that affect all aspects of their lives.
More Info (http://undergrad.aa.ufl.edu/general-education)

Through general education courses, students gain fresh perspectives and discover new approaches to intellectual inquiry that promote understanding of both the traditional and the newly discovered. To achieve these outcomes, the general education curriculum encompasses a breadth of knowledge in composition, diversity studies, humanities, international studies, mathematics, biological, physical, and social and behavioral sciences.

Ultimately, competence in these areas enables students to better understand themselves, their neighbors, other cultures and times, and the principles governing the natural world and the universe; and to participate fully and responsibly as informed citizens in local, national, and global matters.
The general education curriculum is organized around eight major subject areas: biological sciences, composition, diversity studies, humanities, international studies, mathematics, physical sciences, and social and behavioral sciences.
More Info (http://undergrad.aa.ufl.edu/general-education/gen-ed-program)

General Education Program Requirements

All undergraduate students (except those transferring to UF with an A.A. degree from a Florida public college or an A.A. certificate from a Florida public state university) are required to complete UF's general education requirement to graduate.
More Info (http://undergrad.aa.ufl.edu/general-education/gen-ed-program/program-requirements)

Subject Area	UF Core	State Core	Gen Ed Courses	Totals
Composition		3	3	6
Humanities*	3	3		6
Social & Behavioral Science*		3	3	6
Mathematics		3	3	6
Natural Science		3	3	6
Additional Required Gen Ed Coursework (Humanities, Social Science, or Natural Science)**			6	6
OVERALL TOTALS	3	15	18	36

* To complete General Education, student must select a General Education course that features the "International" subject area for 3 credits and a General Education course that features the "Diversity" subject area for 3 credits

** Majors that feature extensive use of one of these subject areas may require a student to complete all 6 "Additional Required Gen Ed Coursework" credits in a particular subject area. See the major Recommended Plan for details.

Important Considerations

- A minimum grade of C is required for general education credit. Courses intended to satisfy the general education requirement cannot be taken S-U.
- Some majors require or recommend specific general education courses.
- Certain classes are approved to count for multiple general education program areas. Students can count a general education course toward one area only except for (D) and (N) credits, which must be earned concurrently with another area. For example, a course designated as HD can count toward both the H and D requirements, but a course designated CH can count only as C or H.
- Study abroad courses can fulfill international credit, in addition to fulfilling credit in other subject areas. Study abroad must be approved in advance by an academic advisor and the UF International Center.

Successful completion of these requirements will result in the student learning outcomes.

Selecting General Education Courses

Students can take Gen Ed courses at the 1000-4000 levels. First-year students generally take introductory (1000/2000-level) courses. If a student has the academic background and the interest they may take more advanced courses, but they should first check the course prerequisites and/or consult an academic advisor.

Applying Incoming Credits to General Education

AP, IB, AICE, and CLEP credit count toward completion of the general education program requirements. In general, course equivalencies are derived from the course equivalency charts (p. 1408) from the student's year of matriculation at UF.

Acceptable dual enrollment and other transfer credit will fulfill the general education requirements that the same UF course fulfills if the course is equivalent. Courses from Florida public colleges and State University System schools generally adhere to the Statewide Course Numbering System. If the prefix (first three letters) and the last three digits of the course number are the same, then the course is considered equivalent.

If the course does not have a common-numbered equivalent at UF (either because UF does not offer the course or because the transferred course was not taken in the state system), then the student's college needs to evaluate the course to determine whether it fulfills a general education requirement. More Info (p. 1408)

Objectives and Outcomes

Subject Area Objectives

More Info (http://undergrad.aa.ufl.edu/general-education/gen-ed-program/subject-area-objectives)

Biological Sciences

Biological science courses provide instruction in the basic concepts, theories and terms of the scientific method in the context of the life sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern biological systems. Students will formulate empirically-testable hypotheses derived from the study of living things, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

Composition

Composition courses provide instruction in the methods and conventions of standard written English (i.e. grammar, punctuation, usage) and the techniques that produce effective texts. Composition courses are writing intensive, require multiple drafts submitted to the instructor for feedback prior to final submission, and fulfill 6,000 of the university's 24,000-word writing requirement. Course content must include multiple forms of effective writing, different writing styles, approaches and formats, and methods to adapt writing to different audiences, purposes and contexts. Students are expected learn to organize complex arguments in writing using thesis statements, claims and evidence, and to analyze writing for errors in logic.

Diversity

This designation is always in conjunction with another program area.

In Diversity courses, students examine the historical processes and contemporary experiences characterizing social and cultural differences within the United States. Students engage with diversity as a dynamic concept related to human differences and their intersections, such as (but not limited to) race, gender identity, class, ethnicity, religion, age, sexual orientation, and (dis)abilities. Students critically analyze and evaluate how social inequities are constructed and affect the opportunities and constraints across the US population. Students analyze and reflect on the ways in which cultures and beliefs mediate their own and other people's understandings of themselves and an increasingly diverse U.S. society.

Humanities

Humanities courses provide instruction in the history, key themes, principles, terminology, and theory or methodologies used within a humanities discipline or the humanities in general. Students will learn to identify and to analyze the key elements, biases and influences that shape thought. These courses emphasize clear and effective analysis and approach issues and problems from multiple perspectives.

International

This designation is always in conjunction with another program area.

International courses promote the development of students' global and intercultural awareness. Students examine the cultural, economic, geographic, historical, political, and/or social experiences and processes that characterize the contemporary world, and thereby comprehend the trends, challenges, and opportunities that affect communities around the world. Students analyze and reflect on the ways in which cultural, economic, political, and/or social systems and beliefs mediate their own and other people's understanding of an increasingly connected world.

Mathematics

Courses in mathematics provide instruction in computational strategies in fundamental mathematics including at least one of the following: solving equations and inequalities, logic, statistics, algebra, trigonometry, inductive and deductive reasoning. These courses include reasoning in abstract mathematical systems, formulating mathematical models and arguments, using mathematical models to solve problems and applying mathematical concepts effectively to real-world situations.

Physical Sciences

Physical science courses provide instruction in the basic concepts, theories and terms of the scientific method in the context of the physical sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern physical systems. Students will formulate empirically-testable hypotheses derived from the study of physical processes, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

Social and Behavioral Sciences

Social and behavioral science courses provide instruction in the history, key themes, principles, terminology, and underlying theory or methodologies used in the social and behavioral sciences. Students will learn to identify, describe and explain social institutions, structures or processes. These courses emphasize the effective application of accepted problem-solving techniques. Students will apply formal and informal qualitative or quantitative analysis to examine the processes and means by which individuals make personal and group decisions, as well as the evaluation of opinions, outcomes or human behavior. Students are expected to assess and analyze ethical perspectives in individual and societal decisions.

Student Learning Outcomes (SLOs)

Content and Skills

Content

Students demonstrate competence in the terminology, concepts, theories, and methodologies used within the discipline.

Communication

Students communicate knowledge, ideas, and reasoning clearly and effectively in written and oral forms appropriate to the discipline.

Critical Thinking

Students analyze information carefully and logically from multiple perspectives, using discipline-specific methods, and develop reasoned solutions to problems.

State Core Gen Ed Courses

More Info (http://undergrad.aa.ufl.edu/general-education/gen-ed-program/state-gen-ed-core)

State Core Gen Ed Biological and Physical Sciences Courses

BSC X085 not offered at UF, but may be transferred in from a Florida public institution.

Code	Title	Credits
AST 1002	Discovering the Universe (P)	3
AST 3018	Astronomy and Astrophysics 1 (P)	3
AST 3019	Astronomy and Astrophysics 2 (P)	3
BOT 2011C	Plant Diversity (B)	4
BSC 2005	Biological Sciences (B)	3
BSC 2010	Integrated Principles of Biology 1 (B)	3
CHM 1020	Chemistry for the Liberal Arts (P)	3
CHM 2045	General Chemistry 1 (P)	3
CHM 2046	General Chemistry 2 (P)	3
CHM 2051	Honors General Chemistry 2 (P)	3
CHM 2096	Chemistry for Engineers 2 (P)	3
ESC 1000	Introduction to Earth Science (P)	3
EVR 2001	Introduction to Environmental Science (B or P, also GE-N)	3
PHY 2020	Introduction to Principles of Physics (P)	3
PHY 2048	Physics with Calculus 1 (P)	3

PHY 2049	Physics with Calculus 2 (P)	3
PHY 2053	Physics 1 (P)	4
PHY 2054	Physics 2 (P)	4

State Core Gen Ed Composition Courses

Code	Title	Credits
ENC 1101	Expository and Argumentative Writing	3
ENC 1102	Argument and Persuasion	3
ENC 2210	Technical Writing	3
ENC 2305	Analytical Writing and Thinking	3
ENC 3246	Professional Communication for Engineers	3
ENC 3254	Professional Writing in the Discipline	3
ENC 3453	Writing in the Health Professions	3
ENC 3459	Writing in the Medical Sciences	3
ENC 3464	Writing in the Social Sciences	3
ENC 3465	Writing in the Law	3

State Core Gen Ed Mathematics Courses

All are pure math except for STA 2023.

Code	Title	Credits
MAC 1105	Basic College Algebra	3
MAC 1140	Precalculus Algebra	3
MAC 1147	Precalculus Algebra and Trigonometry	4
MAC 2233	Survey of Calculus 1	3
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MGF 1106	Mathematics for Liberal Arts Majors 1	3
MGF 1107	Mathematics for Liberal Arts Majors 2	3
STA 2023	Introduction to Statistics 1	3

State Core Gen Ed Humanities Courses

HUM X020 not offered at UF, but may be transferred in from a Florida public institution.

Code	Title	Credits
ARH 2000	Art Appreciation: American Diversity and Global Arts (also GE-D)	3
LIT 2000	Introduction to Literature	3
MUL 2010	Experiencing Music (also GE-N)	3
PHI 2010	Introduction to Philosophy	3
THE 2000	Theatre Appreciation (also GE-D)	3

State Core Gen Ed Social and Behavioral Courses

Code	Title	Credits
AMH 2020	United States Since 1877 (also GE-D)	3
ANT 2000	General Anthropology	3
ECO 2013	Principles of Macroeconomics	4
POS 2041	American Federal Government	3
PSY 2012	General Psychology	3
SYG 2000	Principles of Sociology	3

Center for Latin-American Studies

Founded in 1930, the Center for Latin American Studies aims to advance knowledge about Latin America and the Caribbean and to enhance the scope and quality of Latin American studies at the University of Florida.

Contact

Grinter Hall

P.O. Box 115530
University of Florida
Gainesville, FL 32611-5530

352.392.0375

Map (http://campusmap.ufl.edu/?loc=0002)

More Info (http://www.latam.ufl.edu)

Academic Advising
Grinter Hall, Room 319
352.392.0375

The center:

- offers interdisciplinary academic programs in Latin American studies;
- conducts outreach activities that enrich the intellectual and cultural lives of UF students, faculty and staff, and the local community (e.g., Annual Conference, Colloquium, Latino Film Series, Latin Americanist newsletter, educational K-12 outreach services); and
- cooperates with other university units in overseas study, research and training programs.

Most of these programs are open to undergraduates.

The center has a director and 20 core faculty members with expertise in the humanities, social sciences and natural sciences. In addition, the center draws on the expertise of more than 160 distinguished faculty affiliates from colleges and professional schools across campus. These faculty teach more than 375 undergraduate and graduate courses available to undergraduates in Latin American and Caribbean studies.

Academic Programs

The Center for Latin American Studies offers a minor (p. 834) and a certificate (p. 833) for undergraduates who are interested in Latin America and/or the Caribbean and who intend to pursue graduate studies or a career in Latin American or Caribbean-related business, government service or teaching. An interdisciplinary studies (IDS) major in Latin American studies is available through the College of Liberal Arts and Sciences.

The minor requires 15 credits of courses outside the student's department major's courses, and it will appear on the student's transcript. The certificate in LAS is awarded by the center to acknowledge a Latin American or Caribbean-area concentration within the student's major and general course of study. All coursework on Latin America and related fields, including several courses in the student's major and/or minor may count toward the certificate, and a student can receive both a minor and a certificate in Latin American Studies.

For more information, refer to Center for Latin American Studies (http://www.latam.ufl.edu), Grinter Hall (http://campusmap.ufl.edu/?loc=0002), Room 319, 352.392.0375, ext. 807. Students interested in the minor, certificate or major should contact the center's undergraduate advisor: Email (rfbrown@latam.ufl.edu).

Study Abroad in Latin America

Candidates for both the minor and the certificate are encouraged to spend a summer, a semester or an academic year studying in a Latin American country. UF sponsors study abroad programs for undergraduates in several Latin American countries in a variety of disciplines and lengths. Options include study tours of one to two weeks, summer programs of six weeks and semester-length exchanges during fall or spring. UF programs are currently available in Brazil, Costa Rica, Chile, Mexico, Nicaragua and Peru. Students in almost any major can find a program that will fit their interests.

Courses taken in UF-sponsored study abroad programs can count toward the minor or certificate in Latin American studies. Credits obtained from study abroad programs sponsored by other institutions and transferred to UF may be applied to the minor or certificate with prior approval from the UF international Center (UFIC), the student's major department, and the undergraduate advisor at the Center for Latin American Studies.

For further information on study abroad opportunities, contact Study Abroad Services at the UF International Center.

Division of Military Science

The university offers instruction in the military sciences to students preparing for military service. The departments of the Army, Navy/Marine Corps, and Air Force each maintains a Reserve Officers Training Corps (ROTC) and provides staff of military personnel for the instruction and administration of cadets and midshipmen.

Contact

Air Force

Van Fleet Hall
P.O. Box 118535
University of Florida, Gainesville, FL 32611
352.392.1355

Map (http://campusmap.ufl.edu/?loc=0023) More Info (http://www.afrotc.ufl.edu)

Army

Van Fleet Hall
P.O. Box 118536
University of Florida, Gainesville, FL 32611
352.392.1395

Map (http://campusmap.ufl.edu/?loc=0023) More Info (http://www.armyrotc.ufl.edu)

Navy / Marine Corps

Van Fleet Hall
P.O. Box 118537
University of Florida, Gainesville, FL 32611
352.392.0973

Map (http://campusmap.ufl.edu/?loc=0023) More Info (http://nrotc.ufl.edu)

ROTC Scholarship Program

The ROTC Vitalization Act of 1964 provides for college scholarships to ROTC cadets and midshipmen. Scholarships are competitive and pay either the cost of tuition, books, fees, supplies and equipment or an amount toward that coverage (depending on the service) plus a monthly subsistence allowance of $300 (freshman year), $350 (sophomore year), $450 (junior year), and $500 (senior year). Scholarships are offered for two, three and four years.

Students with Military Training Elsewhere

Students transferring from other college-level institutions with ROTC units are allowed credit for military studies completed elsewhere, up to the amount allowed by the institution from which the transfer is made, provided such credit does not exceed the maximum credits allowed for the Air Force general military course. For the Army ROTC program, transfer of all four semesters of the basic course is normally accepted. Students already in the advance course must receive approval from

the professor of military science for approval of upper-division credit transfers.

A cadet who transfers to another institution with a similar-service ROTC detachment may transfer membership in the Army or Navy advanced course or the Air Force professional officer course to that detachment. The professors of military science, naval science or aerospace studies determine eligibility for admission to military science, naval science and aerospace studies courses at this university.

Military Commitment upon Course Completion

Non-scholarship students enrolled in Army, Air Force or Navy ROTC incur no military commitment during their first two years (basic course) in the program. Upon selection by the respective departments, students completing the basic course or its equivalent may enter the ROTC advanced course. Such students execute a contract at time of entry that obligates them, upon successful completion of the advanced course and commissioning, to serve on active duty for a period of not less than three years for Army, three years for Navy and four years for Air Force. Assignments are subject to orders of the appropriate service secretary.

A graduate will continue as a member of the regular or reserve component of that service until the sixth and not later than the eighth anniversary of the commission. ROTC scholarship students incur an identical military commitment except they must serve at least four years on active duty, if selected, and depending on the service selection and warfare specialty.

Army ROTC students also may elect to participate in the guaranteed reserve forces duty option, whereby they are not required to serve on active duty. After commissioning and completion of the basic branch school, they are assigned to an Army Reserve or National Guard unit to fulfill the remainder of their eight-year obligation in a reserve forces status.

Interested students should apply in person at the office of the professor of military science, naval science or aerospace studies in Van Fleet Hall.

Uniforms, Equipment, and Textbooks

ROTC uniforms are identical to regulation uniforms except for insignia. Cadets and midshipmen must wear the uniform on specified days.

Newly entering students in the Army and Air Force ROTC are issued required uniforms and texts. The uniforms and texts remain the property of ROTC and are returned to supply during semesters of nonattendance, transfer to another institution or upon completion of the prescribed course of instruction.

Navy uniforms are permanently issued to midshipmen as long as satisfactory NROTC participation is carried out. Navy/Marine Corps scholarship midshipmen receive a $375 textbook stipend each semester they are active in the NROTC program.

Army scholarship cadets receive a $1200 textbook stipend each year.

Air Force scholarship cadets receive a $900 textbook stipend each year.

Admission

Lower-division ROTC academic courses, referred to as basic or general military courses, are open to all university students. These elective courses, offered by the Department of Military Science, are designed to introduce students to a military service (Army, Navy/Marine Corps, and Air Force) and their respective roles in national defense. No experience with the military is required or expected.

Upper-division courses are intended for juniors and seniors who are actively pursuing a commission as an officer. Cadets and midshipmen who complete the 3000/4000-level courses receive their commission upon graduation. Candidates for the commissioning program must be medically qualified, physically fit U.S. citizens, in good academic standing, with no criminal record and with demonstrated leadership potential. Final selection of students for the advanced course is made by the professor of military science, professor of naval science or professor of aerospace studies.

Programs

Army Basic, Navy Basic, and Air Force General Military Course

The Army and Navy basic courses and the Air Force general military courses include four semesters of instruction. Non-U.S. citizens must receive department approval to enroll.

Cadets and midshipmen are issued uniforms and textbooks by their respective services and are responsible financially for the care of such property and for its prompt return when directed.

Outstanding Army basic course cadets may be selected to attend airborne, air assault, northern warfare, military mountaineering training, or other U.S. Army training courses. Outstanding Air Force cadets may be selected to attend parachute free-fall training, soaring programs and summer base visits.

Army Reserve Officers Training Corps (ROTC)

392-ARMY (392-2769)

The general objective of Army ROTC is to provide junior officers who by their education, training and inherent qualities, are suitable for continued development as officers in the U.S. Army. The aim is to provide a basic military education and, in conjunction with other college disciplines, to develop individual character attributes essential to a professional military officer.

The Army ROTC advanced course includes four semesters of instruction on campus and four weeks of summer camp at Ft. Lewis, WA, normally at the end of the junior year. During each semester, cadets are required to participate in one weekend field training exercise at Camp Blanding in Starke, FL. Additionally, cadets are required to attend morning physical training (exercise) sessions up to three times weekly.

Training Allowances and Service Obligation

Each student receives from the U.S. Government a monetary subsistence allowance for advance course, $450 for juniors and $500 for seniors per month, paid during the period of enrollment in the advanced course for not more than 20 months. Students are paid for their travel to and from the five-week summer camp at Ft. Lewis, WA. While at camp, they are provided quarters, rations and one-half of a Second Lieutenant's pay per month. Qualified cadets may be eligible to serve as drilling members of reserve component units, in the pay grade of E-5 or higher, under the Simultaneous Membership Program. Upon the student's successful

completion of the advanced course and completion of the college degree, the cadet is commissioned a Second Lieutenant in the U.S. Army.

Outstanding advanced-course cadets may be selected to attend airborne, air assault, northern warfare, military mountaineering training, or other U.S. Army training courses. Several cadets are offered the opportunity to serve in leadership positions in active Army units immediately following the National Advanced Leader's Camp under the Cadet Troop Leadership Training Program. This program includes an opportunity for selected cadets to travel and serve in Germany or Korea. Prior to commissioning, students must take and pass one semester of the following courses: military history, English composition and computer literacy in order to complete the professional military education program requirements.

All contracted cadets may compete for the Cultural Understanding and Language Program, providing opportunities to travel to other countries, living and working among the population to better their understanding of the culture. Also, for selected languages, contracted cadets may be paid additional monies ($250 per semester-credit) for successfully completing targeted languages.

Naval Reserve Officers Training Corps

The NROTC unit was established at the university in 1972 to develop qualified officers for the Navy and Marine Corps. Students who complete the program are tendered commissions in either the Naval Reserve or the Marine Corps Reserve and are immediately placed on active duty.

The program consists of a naval science course and a noncredit two-credit leadership laboratory each semester for four academic years. Shipboard engineering and naval weapons systems, seapower and maritime symposia, terrestrial and celestial navigation, and management and leadership ethics are included in the curriculum. Training cruises, usually of four to six weeks duration with pay during the summer, also are part of the program.

Students may participate with or without a scholarship. Those who have scholarships have their tuition and fees paid by the Navy/Marine Corps and receive $375 per semester for books. They also receive $250 (freshman), $300 (sophomore), $350 (junior) and $400 (senior) per month for a maximum of eight semesters during the academic years.

Non-scholarship college program students do not receive these awards. However, they do receive naval science textbooks and uniforms free. They also receive $350 a month (during the junior year) and $400 a month (during the senior year) for up to four semesters. Scholarships are usually awarded after national competition among high school seniors. However, college program students can be awarded scholarships fewer than four years and they actually have an advantage over high school students.

Scholarship students participate in three summer cruises; college program students participate in only one cruise between their junior and senior years.

During the first year of the scholarship program, there is no obligation to serve on active duty. After students begin the sophomore year, they are obligated to serve on active duty after completing the program and receiving their baccalaureate degree. Eight-semester scholarship students incur an eight-year service obligation; four years must be active duty.

Navy-option graduates of the NROTC program will be assigned to one of the following areas: nuclear propulsion (surface and subsurface), naval aviation, surface warfare, or special warfare. Marine Corps-option graduates receive a six-month professional course before further assignment.

Air Force Officer Training Corps

The Department of Air Force Aerospace Studies was established in September 1946 to select and prepare students through a permanent program of instruction to serve as active duty officers in the U.S. Air Force. The curriculum emphasizes the uniformly high level of military understanding and knowledge required of Air Force officers.

AFROTC training is divided into two phases: the first two years constitute the General Military Course (GMC), the last two the Professional Officer Course (POC). AFROTC is designed to be a four-year program but can be completed in as little as three years. Upon completion cadets are commissioned as a Second Lieutenant in the U.S. Air Force.

The program requires completion of the GMC, a two-week field training course and the POC. Students with previous active military service or previous training at military schools may on the basis of their experience receive a waiver for portions of the GMC. Students joining the program with only three academic years until graduation will be required to complete the entire GMC curriculum in one year and then attend field training.

UF students, junior college and other non-ROTC transfer students with no previous ROTC training who qualify academically are eligible for the three-year program.

AFROTC training provides free uniforms and textbooks. In addition, after field training and other enrollment requirements are completed, POC cadets receive $450 per month for juniors and $500 per month for seniors during the academic year.

General Military Course

The General Military Course, a two-year survey-level course, examines the role of U.S. military forces in the contemporary world, with particular attention to the U.S. Air Force, its organization and mission. The functions of strategic offensive and defensive forces, general purpose and aerospace support forces are covered. The development of air power over the past 200 years is examined by tracing the various concepts of employment of air power and by focusing on factors that prompted research and technological change. The history of air power is stressed, with significant examples of the impact of air power on strategic thought.

Professional Officer Course

Enrollment in the Professional Officer Course (POC) is open to applicants who demonstrate a high officer potential. Applicants must:

- Fulfill all requirements for a commission prior to the 34th (29 years for flying applicant) birthday (waivers possible to the 35th birthday)
- Have two years of academic enrollment remaining to obtain degree
- Sign a written contract agreeing to complete the course
- Be a citizen of the United States and willing to surrender dual citizenship with another nation
- Pass the Department of Defense medical examination
- Pass the physical fitness test
- Terminate membership (if member) of any reserve component
- Enlist in the Air Force Reserve (obligated reserve section)

- Have a cumulative academic GPA of 2.5 or higher for all previous college courses
- Successful completion of the GMC and Field Training requirements

Veterans entering the university who desire a commission through AFROTC should contact the professor of aerospace studies before registering.

All POC cadets receive up to $500 per month for up to 20 months. This is in addition to the pay received for the two-week field training, which normally is accomplished between the sophomore and junior years. Cadets also receive compensation for travel expenses and are provided food, housing, uniforms and medical care while attending field training, which is conducted at an Air Force base.

POC academics stress the development of the leadership, management and communication skills that are vital to an officer's effectiveness. Classroom time also is spent developing the cadet's professional awareness and understanding the international environment as it affects the national security of the United States.

When the student successfully completes the POC and graduates from the university, they are commissioned a Second Lieutenant in the United States Air Force and is given an assignment commensurate with their academic major, the needs of the Air Force and their personal desires. The active-duty requirement for officers who enter and complete pilot training satisfactorily is ten years from the end of flight training. Those who complete combat systems officer, air battle manager or remote piloted aircraft training have a six-year active duty service commitment following graduation from flight training. For others, the requirement is four years after entering active duty.

Aerospace Leadership Minor

The university offers instruction in the military sciences to students preparing for military service. The departments of the Army, Navy/Marine Corps, and Air Force each maintains a Reserve Officers Training Corps (ROTC) and provides staff of military personnel for the instruction and administration of cadets and midshipmen.

Contact

Air Force

Van Fleet Hall
P.O. Box 118535
University of Florida, Gainesville, FL 32611
352.392.1355

Map (http://campusmap.ufl.edu/?loc=0023) More Info (http://www.afrotc.ufl.edu)

Army

Van Fleet Hall
P.O. Box 118536
University of Florida, Gainesville, FL 32611
352.392.1395

Map (http://campusmap.ufl.edu/?loc=0023) More Info (http://www.armyrotc.ufl.edu)

Navy / Marine Corps

Van Fleet Hall
P.O. Box 118537
University of Florida, Gainesville, FL 32611
352.392.0973

Map (http://campusmap.ufl.edu/?loc=0023) More Info (http://nrotc.ufl.edu)

About this Program

- **College:** Division of Military Science (p. 506)
- **Credits:** 16 | Completed with minimum grades of C
- **Additional Information**

Each cadet enrolled in the Air Force ROTC Professional Officer Course (POC) who completes the four 3000/4000-level courses and labs necessary for commissioning will be eligible for award of a minor in aerospace leadership.

Required Courses

Code	Title	Credits
AFR 3220	Air Force Leadership and Management	4
& 3220L	and Professional Officer Course (POC) Leadership Laboratory 1	

AFR 3231 & 3231L	Air Force Leadership and Management and Professional Officer Course (POC) Leadership Laboratory 2	4
AFR 4201 & 4201L	Preparation for Active Duty 1 and Professional Officer Course (POC) Leadership Laboratory 3	4
AFR 4211 & 4211L	Preparation for Active Duty 2 and Professional Officer Course (POC) Leadership Laboratory 4	4
Total Credits		16

Military Science and Leadership Minor

The university offers instruction in the military sciences to students preparing for military service. The departments of the Army, Navy/Marine Corps, and Air Force each maintains a Reserve Officers Training Corps (ROTC) and provides staff of military personnel for the instruction and administration of cadets and midshipmen.

Contact

Air Force

Van Fleet Hall
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Navy / Marine Corps

Van Fleet Hall
P.O. Box 118537
University of Florida, Gainesville, FL 32611
352.392.0973

Map (http://campusmap.ufl.edu/?loc=0023) More Info (http://nrotc.ufl.edu)

About this Program

- **College:** Division of Military Science
- **Credits:** 19 | Completed with minimum grades of C

Only those students participating in the process to become a commissioned officer in the U.S. Army can earn this minor.

Prerequisites

- U.S. Army ROTC cadet contracted for an obligation to the U.S. Army as a commissioned officer
- Completed the U.S. Army ROTC Leadership and Development Assessment course
- Minimum cumulative GPA of 2.0

Required Courses

Code	Title	Credits
MSL 3201	Leadership and Problem Solving	3
MSL 3202	Leadership and Ethics	3
MSL 4301	Leadership and Management	3
MSL 4302	Officership	3
MSL 4941	Advanced Leader Training	4

History elective	3
Total Credits	19

History Electives

Code	Title	Credits
AMH 2020	United States Since 1877	3
AMH 3511	American Foreign Relations and Expansion Since 1914	3
AMH 4231	U.S. World War I to World War II	3
AMH 4270	U.S. Since World War II	3
EUH 2002	Western Civilization: From the Eighteenth Century to the Present	3
EUH 4280	History of the Second World War	3

College of Dentistry

The University of Florida College of Dentistry is one of the top dental schools in the United States, featuring a nationally-ranked research enterprise, all ADA-recognized dental specialties, the Higher Education Excellence in Diversity Award for four consecutive years and a HRSA grant for Scholarships for Disadvantaged Students. The college is located on the University of Florida campus within an academic health center which includes a major teaching hospital and five other health colleges. The University of Florida and the College of Dentistry offer rich educational and cultural opportunities, nationally-ranked sports teams and everything a large university system has to offer in a diverse and humanistic environment.

Contact

Health Science Center, D3-5
352.273.5955

Dental Academic Advising and Admissions
D3-5 Health Science Center
352.273.5955
Email (DMDAdmissions@dental.ufl.edu)

Mailing Address
P.O. Box 100445
University of Florida
Gainesville, FL 32610-0445

Admissions (http://admissions.dental.ufl.edu)

The college educates the state's future dentists and dental specialists through 16 degree and certificate programs. Each year we admit a new class of 90+ D.M.D. students who are among the top predental students in the nation. Students' performance on standardized examinations is a benchmark of the quality of our academic programs.

The college is Florida's only public dental school and one of the top dental institutions in the country. It has a statewide network for community oral health with four UF-owned dental centers and 11 partnership centers located throughout Florida. The college provides training opportunities for students and residents while providing dental care to Florida residents, many of whom are underserved and lack access to dental care.

The UF College of Dentistry is housed in the Dental Sciences Building located on the UF Health Science Center campus. The Health Science Center includes five additional colleges – Medicine, Public Health and Health Professions, Nursing, Pharmacy, and Veterinary Medicine – and is adjacent to one of the university's affiliated private, tax-exempt teaching hospitals, UF Health Shands in Gainesville.

Undergraduate Preparation

The College of Dentistry seeks students of the highest caliber for its many programs. A strong record of scholastic achievement, high moral character and strong motivation is expected of the applicant. Because of the vast amount of science that must be mastered by the dentist, a dental student must have aptitude and adequate academic preparation in the sciences. The highly personal relationship between patient and dentist places the latter in a position of trust, which demands maturity, integrity, intellectual honesty and responsibility.

Preprofessional students can major in any department or college of the university; however, an in-depth background in biological sciences is necessary to master the dental curriculum. The Pre-Health Advising Team in the UF Academic Advising Center offers information and resources to help students prepare for admission to a professional program in dentistry.
More Info (https://www.advising.ufl.edu/pre-health)

General education requirements for admission to the College of Dentistry are fully described in the dentistry catalog. Registration in dentistry (DEN) courses is restricted to students admitted to the College of Dentistry with 0DN to 8DN classifications.

The application process (http://admissions.dental.ufl.edu/d-m-d/ufcd-requirements/applicants) is described on the college website or you can email (DMDAdmissions@dental.ufl.edu) the admissions office.

Programs

Doctoral Program in General Dentistry

The **Doctor of Dental Medicine (D.M.D.)** program is a four-year doctorate program in general dentistry.

Combined Program for Undergraduate Students

The combined **B.S./D.M.D.** program allows the student to complete both the B.S. and D.M.D degrees in seven years instead of eight. Students submit applications at the conclusion of their freshman year at UF. Accepted students enroll in a carefully sequenced series of courses

that meet both baccalaureate degree requirements and the College of Dentistry's admissions requirements. The student completes three years of undergraduate work before transferring to the first year of dental school. The B.S. degree is awarded at the end of the first year of dental school. This program is jointly offered with the College of Agricultural and Life Sciences.

Combined Programs for Dental Students

The College of Dentistry offers an integrated dental and graduate research training program culminating in the awarding of both a D.M.D. and a Ph.D. in Biomedical Sciences. The joint **D.M.D./Ph.D.** program is offered in collaboration with the College of Medicine Interdisciplinary Program in Biomedical Sciences and prepares students for a career in the dental academic setting using skills acquired in clinical practice and clinical education as well as basic and/or translational research. This program will typically take 7-8 years to complete.

The College of Dentistry offers joint **D.M.D./M.P.H.** program, which is open to current D.M.D. students who are interested in receiving graduate training in the science, principles, and practice of public health. This program is offered collaboratively by the College of Dentistry and the College of Public Health and Health Professions. Under the joint degree program, a student can obtain both degrees in approximately one year less than it would take to obtain them if pursued consecutively. This program will add about one academic year to the time required to complete the D.M.D. degree.

Advanced and Graduate Programs

The College of Dentistry also offers four **Master of Science in Dental Science (M.S.)** degree programs as well as several Advanced Education Programs resulting in certificates of completion.

In conjunction with the College of Medicine, the College of Dentistry offers a six-year program that awards an **M.D. degree and a certificate of completion in Oral and Maxillofacial Surgery**.

Oral Biology Specialization

The college's Department of Oral Biology, in conjunction with the College of Medicine, offers a program leading to a **Ph.D. in medical sciences with a specialization in oral biology**.

DMD Program Highlights

Established in 1972, the University of Florida College of Dentistry is the only publicly-funded dental school in the state and ranks as a national leader in dental education, research and community service.

- Exceptional boards pass rate (https://admissions.dental.ufl.edu/d-m-d/why-ufcd/d-m-d-highlights)
- Top 10 nationally-ranked research enterprise (https://admissions.dental.ufl.edu/d-m-d/why-ufcd/d-m-d-highlights)
- Statewide network of clinics (https://admissions.dental.ufl.edu/d-m-d/why-ufcd/d-m-d-highlights)

Fredric G. Levin College of Law

A renowned faculty, comprehensive Juris Doctor curriculum, certificate programs, innovative centers and institutes, expanding global curriculum and competitive tuition make the University of Florida's Fredric G. Levin College of Law the first choice for many students who desire a law degree.

Contact

Office of Student Affairs
164 Holland Hall
352.273.0620

Admissions
141 Bruton-Geer Hall
352.273.0890

Admissions Mailing Address
P.O. Box 117622
University of Florida
Gainesville, FL 32611-7622

More Info (http://www.law.ufl.edu)

Since its establishment in 1909, the College of Law has been educating leaders in law, business, education and government. The college is accredited by the American Bar Association and is a member of the Association of American Law Schools. Enrollment is approximately 1000, including about 100 students in the Graduate Tax and Comparative Law programs.

The college is housed in Holland and Bruton-Geer halls and is named for alumnus Fredric G. Levin of Pensacola, a prominent trial lawyer who made possible a $20 million endowment to support excellence in legal education, which provided for construction on an expanded law library, the Lawton Chiles Legal Information Center, and two new classroom towers which were completed in 2005. As a result of this construction, the college has one of the largest academic law libraries in the southeastern United States, housing more than 609,000 volumes and extensive computer and audio-visual resources in a new, state-of-the-art facility.

The college's curricular strengths include tax law, business law, estates and trusts, environmental law, dispute resolution, international law, intellectual property law, criminal law, family and children's law and an emphasis in developing the highest standards of professional conduct. After completing first-year requirements, students can tailor their course load to fit their interests and career plans. The three-year curriculum develops students' analytical ability, knowledge of the theory and practice of law, communications skills, and understanding of the codes of professional responsibility and ethics central to the practice of law.

Students experience a variety of teaching methods, including the traditional case and Socratic methods, as well as the problem method, simulations, role-playing, videotaping, computer-assisted instruction and interaction with actual clients. Because Florida is home to many prominent and skilled attorneys and judges, a number are actively involved in teaching and practical skills training of UF law students. Additionally, because writing skills are critical to success in the legal profession, these skills are also developed through required courses and a nationally acclaimed legal drafting program.

Through programs offered on campus and abroad, students gain international experience for the competitive job market. Dozens of co-curricular and extracurricular organizations support a rich and diverse student life, and through programs offered on campus and abroad, students gain international experience for the competitive job market.

Academic Policies

Admission

More Info (http://www.law.ufl.edu/admissions)

Admission to the College of Law is determined by the applicant's potential for success in law school, the legal profession and other law-related careers. An applicant's credentials are measured against others applying to the same class.

Applicants must hold a bachelor's degree from a qualified institution and have an acceptable grade point average and a satisfactory score on the Law School Admission Test (LSAT). The median LSAT score and undergraduate grade point average for the most recent entering class is 158 and 3.50 (4.00 scale), respectively.

Financial Aid

More Info (http://www.law.ufl.edu/students/financial)

Financial aid for law study is available through the College of Law and federal sources. The law school offers a number of merit-based scholarships and merit/need- based scholarships and grants.

Financial Aid Office

164 Holland Hall
Box 117621
Gainesville, FL 32611-7621

352.273.0620

Programs of Study

More Info (http://www.law.ufl.edu/programs)

Pre-Law

The best pre-law program is a diversified course of study. Beginning law students are expected to possess effective written and oral communication skills as well as critical thinking abilities.

For specific information about pre-law study, law school and the legal profession, refer to the *Official Guide to U.S. Law Schools, which can* be ordered from Law Services during LSAT registration, purchased at most bookstores or accessed from the Law School Admission Council (http://www.lsac.org).

Joint Degrees

More Info (http://www.law.ufl.edu/academics/academic-programs/joint-degree-programs/degrees-offered)

The Fredric G. Levin College of Law offers a joint-degree program that sets the standard among top-tier public law schools for its flexibility, coverage of study areas, high academic reputation and overall value. Qualified students combine legal studies with graduate coursework in another college to earn two degrees at the same time. Among the most popular are J.D./Accounting, J.D./MBA, J.D./Mass Communications.

Candidates must take the LSAT and the GRE, MCAT or GMAT, and gain admission separately to the College of Law and the Graduate School. Application deadlines vary; refer to law school admissions (http://www.law.ufl.edu/admissions) and graduate admissions (http://www.admissions.ufl.edu/prospectivegraduate.html).

Certificate Programs

Specialization is a growing trend in today's complex legal environment, and graduates with knowledge in specific practice areas are in high demand. UF Law offers interested students the opportunity to develop expertise and marketability by earning a certificate in criminal justice, environmental and land use law, estates and trusts practice, family law, intellectual property law or international and comparative law.

Graduate Taxation Program

The graduate taxation program, which offers the LL.M. in Taxation, LL.M. in International Taxation and S.J.D. in Taxation, is widely and consistently regarded as one of the nation's top programs. The environmental law program, also highly rated, offers the nation's first LL.M. in the closely-related fields of environmental and land use law. The college's strong international programs and LL.M. in Comparative Law for foreign lawyers expand the school's curriculum and strengthen its ties with legal entities and scholars around the globe.

Clinics, Centers, and Institutes

Clinical programs, including Virgil Hawkins Civil Clinics and Criminal Clinics, allow students to represent clients within an academic framework with a substantial classroom component. Students also can take advantage of such practical experience programs as *pro bono* work for organizations and government agencies, summer internships and externships.

Multiple centers and institutes offer students unique, real-world perspectives and work experiences. At the same time they are partnering with legal firms and other institutions throughout the country and world to help shape the legal profession. The centers include the:

- Center for Governmental Responsibility,
- Center for the Study of Race and Race Relations,
- Center on Children and Families,
- Center for Estate and Elder Law Planning,
- Criminal Justice Center,
- Center for International Financial Crimes Studies and the
- Institute for Dispute Resolution.

College of Medicine

The College of Medicine, a unit of the Health Science Center, began operations in 1956 and is located on the south end of campus. This location, in direct proximity to university facilities, offers many opportunities to utilize and complement resources of the university in the educational and investigative programs of the college.

Contact

Medical Science Building, M-108
352.273.7990

Admissions
Medical Science Building, M-108
352.273.7990

Mailing Address
P.O. Box 100216
University of Florida

Gainesville, FL 32610-0216

More Info (http://www.med.ufl.edu)

The College of Medicine is responsible for several major educational programs. Foremost is the four-year program leading to the M.D. degree. The average class size is 130. After graduation, physicians enter a residency program. The college offers an interdisciplinary graduate program (IDP) in biomedical sciences leading to the Ph.D. in medical sciences with specialization in the following concentrations:

- biochemistry and molecular biology,
- genetics,
- immunology and microbiology,
- neuroscience,
- molecular cell biology, and
- physiology and pharmacology.

Joint programs exist with the colleges of Agricultural and Life Sciences, Education, Engineering, Liberal Arts and Sciences and the other colleges of the Health Science Center. Also, computational and statistical services are available through university resources and facilities.

Further training is offered through positions for postdoctoral research fellowships in all basic science and clinical departments. The clinical departments conduct frequent seminars as part of a continuing education program for practicing physicians. In addition, some of the clinical departments have assumed responsibility for community medicine programs in communities surrounding Gainesville.

The faculty is dedicated to a teaching program of high quality. The design of the four-year curriculum encourages a close faculty-student relationship. The educational program is structured to enable the graduate to choose any career in medicine. Therefore, emphasis is placed on fundamental biological principles and their relevance to the practice of medicine.

Teaching Hospitals

The primary teaching hospital for the College of Medicine is Shands at the University of Florida, a modern tertiary care facility that is part of the Health Science Center complex. Shands at UF is one of several hospitals owned and operated by Shands HealthCare, a not-for-profit system affiliated with the University of Florida. The College of Medicine also has faculty, students and residents who provide patient care, teaching and clinical trial research at the Veterans Administration Medical Center located across the street from the Health Science Center campus.

Students also receive experience at Shands Jacksonville, approximately 70 miles from Gainesville. Shands Jacksonville has a 760-bed facility with more than 250 faculty. In addition, there are more than 60 owned or affiliated outpatient or community practice sites for educational experiences.

Detailed information will be found in the College of Medicine Catalog (http://www.med.ufl.edu/oea/osa/catalogue.shtml).

Undergraduate Preparation

Students intending to apply for admission to the College of Medicine must complete the requirements for a bachelor's degree. Preprofessional students at the University of Florida may major in a program offered by any department or college in the university. The Office of Health and Legal Professions Advising offers a variety of resources, including the university's Preprofessional Handbook.

An applicant to the College of Medicine must have personal qualities of the highest order: character, integrity, intellectual honesty, responsibility, maturity, initiative and aptitude. In addition, students must demonstrate superior academic achievement during undergraduate work and complete the Medical College Aptitude Test (MCAT). Substantial extracurricular activities, especially in service and health care, are expected. Admission information and brochures (http://www.med.ufl.edu/oea/admiss/site/Regular.shtml) are available from the College of Medicine, the Office of Admissions' preprofessional admissions section and Health and Legal Professions Advising.

Joint Degree Programs

A junior honors medical program (http://jhmp.med.ufl.edu) exists for undergraduate students who have chosen a career in the medical profession and who have demonstrated both superior scholastic ability and personal development during their first two college years. Students are chosen for the program at the end of their sophomore year. The third year consists of two-thirds undergraduate courses and one-third College of Medicine courses. The latter are offered in a seminar form. The fourth year consists of first-year courses in the College of Medicine.

The program is limited to 12 students per year in order to retain the discussion seminar format. Preference is given to Florida residents. The College of Liberal Arts and Sciences grants academic credit for all of the third-year work and part of the fourth-year work. A participating student receives a B.S. degree after completing the first year of medical school.

The College of Agricultural and Life Sciences also participates in this program through their food science and human nutrition major (nutrition specialization) and provides information regarding completion of the degree in that college.

The College of Medicine graduate education program offers several M.S. and joint degree programs with other colleges. A joint degree program is a credit-sharing arrangement that allows qualified students to combine their medical science background with other professional or graduate work, resulting in earning two degrees in a reduced amount of time. More Info (https://admissions.med.ufl.edu/admission-requirements/dual-degrees)

Unusually gifted students may enter a **combined M.D./Ph.D. program** that offers an opportunity for integrating clinical experience with competence in basic biomedical research. This program reflects the increasing dependence of the practice of medicine on scientific advances in the biological sciences and seeks to produce clinician scientists.

The College of Medicine, in conjunction with the Warrington College of Business and the Fredric G. Levin College of Law, offers programs leading to the **M.D./M.B.A.** and the **M.D./J.D.** degrees. A complete description of these programs is available in the College of Medicine Admissions Office. The college also offers a joint **M.D/M.P.H** degree and a two-year **Master of Physician Assistant Studies**.

College of Pharmacy

The oldest college in the UF Health Science Center, the College of Pharmacy was established in 1923. Today the college is ranked among the top colleges and schools of pharmacy in the nation. In keeping with the University of Florida mission, the college is dedicated to excellence in

pharmacy research, service, and educational programs enhanced through online technologies.

Contact

HPNP Complex
1225 Center Drive
352.273.6217

Map (http://campusmap.ufl.edu/?loc=0212) More Info (http://www.pharmacy.ufl.edu)

Academic Advising
G205 HPNP Building
352.273.6400

Mailing Address
P.O. Box 100495
Health Science Center, University of Florida
Gainesville, FL 32610-0495

Established

1923

Location

Public Health and Health Professions, Nursing and Pharmacy (HPNP) Complex, UF Health Science Center in Gainesville, and three distance education campus sites in Jacksonville, Orlando and St. Petersburg

Rankings

Ranked 14th among 110 colleges of pharmacy in the country

Accredited

The Accreditation Council for Pharmacy Education:
135 S. LaSalle Street, Suite 4100
Chicago, IL 60603-4810
312.664.3575
fully accredits the Doctor of Pharmacy Program.

Programs

The College of Pharmacy offers the Doctor of Pharmacy degree program. Students can also opt to complete joint-degree programs in Master of Business Administration and Master of Public Health as well as a combined program with a Doctor of Philosophy in Pharmaceutical Sciences.

Degree

Doctor of Pharmacy (Pharm.D.)

Academic Advising

Student Services
G205 HPNP Building
1225 Center Drive
Gainesville, FL 32611

352.273.6400

Scholarships and Financial Aid

The College of Pharmacy offers financial aid to admitted pharmacy students through a variety of sponsors, including a Jack Eckerd Endowment and a Charlotte Liberty Family endowment. Other sponsors include pharmaceutical companies, pharmacy organizations and the pharmacy alumni association. A list of scholarships and financial aid (http://pharmacy.ufl.edu/education/student-affairs/financial-aid) is available in the college's website.

Computer Requirement

Pharmacy students must have a laptop computer (http://pharmacy.ufl.edu/education/student-affairs/admissions/student-computer-requirements).

Internships/ Career Guidance

Clinical experiences in the introductory and advanced pharmacy practice phases of the Pharm.D. curriculum meet internship requirements for licensure in the state of Florida. Career information (http://pharmacy.ufl.edu/education/student-affairs/careers-in-pharmacy) is available through the Office for Student Affairs.

Student Organizations

The College of Pharmacy has student councils that serve as liaisons for student organizations on all four campus sites. Professional student organizations include:

- the Academy of Student Pharmacists,
- the Student Chapter of the National Pharmacy Association,
- the Student Chapter of the American Society of Consultant Pharmacists,
- the Student Chapter of the Florida Society of Health System Pharmacists,
- the Student Chapter of the National Association of Community Pharmacists,
- the Student Chapter of the Academy of Managed Care Pharmacy and
- the Student Chapter of the American College of Clinical Pharmacists.

Campus Sites for the Doctor of Pharmacy Program

The College of Pharmacy's four campus sites in Florida provide the education necessary for students to meet requirements for the Doctor of Pharmacy degree. The Gainesville campus presently admits 115 students, the Orlando campus admits 70 students and the Jacksonville and St. Petersburg campuses each admit 55-58 students in the first professional year.

The Doctor of Pharmacy curriculum is delivered (http://pharmacy.ufl.edu/files/2012/05/Pedagogical-Approach2.pdf) to students in the distance education programs via streaming video of pharmacy lectures. Students receive these lectures within several hours of the presentation. Students in distance education programs must meet several times per week during the semester to review integrated case studies, present projects, participate in question and answer sessions, and review lecture material before examinations. Not all pharmacy courses are videotaped; thus, students at all four campuses must attend selected courses.

All students take examinations at the same time, usually in the late afternoons and early evenings on designated days. All students receive the same curriculum, take the same examinations and complete the same degree requirements. Pharmacy students in the distance education program interact with faculty facilitators at the campus site, and they communicate with course coordinators and individual lecturers through

email and electronic discussion sessions on their computers. Each campus site has an assistant dean, an assistant director, a full-time faculty member, a coordinator of student affairs, staff and faculty facilitators. Large and small classrooms, computer labs, library and administrative offices are available at each campus site as well.

Academic Policies

Admission to Professional Pharmacy Programs

The professional programs in pharmacy are divided into two phases: preprofessional curriculum and professional curriculum. While the requirements of the preprofessional phase can be completed at any accredited four-year institution or public/state college before entering the College of Pharmacy, students choosing to matriculate at a college other than the University of Florida for pharmacy studies should make certain they can fulfill all admission requirements.

Admission to this college is selective and the college is unable to guarantee admission to every candidate who meets minimum requirements. Through the admissions committee, the college annually selects eligible applicants to begin studies in August. Specific requirements are listed below.

The deadline for submitting all application materials is the beginning of March for each fall semester. Application, transcripts and PCAT score(s) must be submitted to the Pharmacy College Application Service (PharmCAS (http://www.pharmcas.org)), a centralized application service. Additional application materials, including personal profile/campus preference form and university application, must be submitted online. Interviews of competitive candidates are required as part of the application evaluation process.

All applicants to the professional program are required to take the Pharmacy College Admission Test (PCAT). Requests for information should be directed to Pharmacy College Admission Test, 1.800.622.3231.

Examinations are held in July, September, with limited seating in October, November and January for admission in August of the following year. Students taking the PCAT should request that their scores be sent to PharmCAS by using code 104.

The test may be taken more than once. The admissions committee will view all scores and give consideration to the set of scores with the highest percentile composite.

Academic Advising

Students who are considering a major in pharmacy should contact the Office for Student Affairs (http://pharmacy.ufl.edu/education/student-affairs) in the College of Pharmacy for advice, literature (P.O. Box 100495, G205A HPNP Building, Gainesville, FL 32610-0495; 352.273.6400) and program information (http://pharmacy.ufl.edu/education/doctor-of-pharmacy-degree-pharmd).

Critical-Tracking Criteria

The universal-tracking program provides accurate academic advising in an appropriate timeframe. The college has designated particular criteria that must be completed each semester to progress satisfactorily toward a degree in pharmacy. Students may elect a three-year program that requires declaration of a science major in a UF college.

Students should use the preprofessional sequence to satisfy general education requirements. All preprofessional courses must be completed before beginning the professional curriculum.

University of Florida Students

Students at the University of Florida who are interested in applying to this college may declare a pre-pharmacy major as freshmen and sophomores and complete the preprofessional courses. Students can complete the preprofessional coursework within two calendar years and will be monitored by the college through the critical-tracking program. Students who wish to take three or more years to complete the preprofessional coursework must declare a major other than pre-pharmacy in the third year.

Students may also complete preprofessional courses within other majors such as biology, chemistry, microbiology and cell science and nutritional sciences.

Students interested in pharmacy should complete general education and writing requirements before beginning the professional curriculum. Transfer students must also receive an Associate of Arts degree prior to beginning the professional program.

Recommended Course Sequences

- General chemistry, biology and calculus should be completed in the first year because they are on the PCAT.
- Completion of one semester of organic chemistry, or currently taking organic chemistry, is also recommended preparation for the PCAT.
- Organic chemistry, physics, public speaking and anatomy and physiology should be completed in the second year.
- Biochemistry and microbiology should be taken after completion of organic chemistry and biology.
- All applicants must have completed two sequential courses of foreign language in secondary school or 8-10 credits at the post-secondary level, or document an equivalent level of proficiency.
- Transfer students must complete an Associate of Arts (A.A.) degree prior to beginning the professional program. Students who are transferring from schools that do not offer an A.A. degree must meet UF's general education requirements.
- Students may take online courses to satisfy preprofessional coursework. The Admissions Committee prefers that students complete science courses with laboratories in actual classes and labs.

Admission Decisions

Students must meet the admission requirements of the University of Florida and the College of Pharmacy. The College of Pharmacy Admissions Committee reviews completed applications and makes decision for admission, denial and alternate list. In addition, the admissions committee designates the campus site for admitted students based on the students' preferences for campus sites and personal circumstances. Students should rank their preferences for the four campuses (Gainesville, Jacksonville, Orlando and St. Petersburg). The admissions committee notifies students by email after they have made a decision. Students have two weeks from the date of receipt to notify the Office for Student Affairs if they accept or reject the invitation for admission.

Postbaccalaureate Admission

Students with baccalaureate degrees in majors other than pharmacy may be admitted by the Pharmacy Admissions Committee to the professional degree program when the necessary preprofessional courses and application requirements are complete.

Special Requirements and Information

More Info (http://file.cop.ufl.edu/studaff/requirements/DATA_COLLECTION_ALL_PD_YEARS_WEB_VERSION.pdf)

Students must meet specific requirements prior to enrollment. All pharmacy students must be certified in cardiopulmonary resuscitation (CPR) for both adult and child through the American Heart Association. The CPR certification must be kept current during all pharmacy studies.

Students must also complete a criminal background check the summer before fall semester enrollment in the Pharm.D. curriculum. Conditional admission can be rescinded based on results of the criminal background check as well as failure to comply with any conditions for admission. Another criminal background check and other pre-clinical requirements must be satisfied prior to entry into hospitals for clinical training.

These background checks include and are not limited to the following:

- social security number verification
- employment record check
- exclusion list check at state and national levels
- HIPAA certification

Drug screens also may be required before access to clinical training sites. Blood titers against measles, mumps, rubella, hepatitis and varicella may be required by selected hospitals. Immunizations must be updated as required. A physical examination is required to enter introductory and advanced pharmacy practice experience courses in the curriculum.

Health Policies

All students must document their immunization status before matriculation to the College of Pharmacy. Students must indicate their history of acquired or natural immunity to the following diseases: measles, mumps, rubella, varicella, pertussis, diphtheria and tetanus. Vaccination annually against the influenza virus is required.

All students must show proof of a recent (within the past six months) tuberculosis skin test (PPD or Tine test), a diphtheria-tetanus-pertussis vaccination (within the past 10 years) and a measles-mumps-rubella vaccination (if natural immunity is absent).

Admitted students must complete the three vaccinations against the Hepatitis B virus by April 1 of the first professional year. The expense for all immunizations and TB skin tests is the student's responsibility.

Prior to entering Advanced Pharmacy Practice Experience (APPE), students must file results of a recent two-step TB skin test with the Office for Student Affairs. A TB skin test also is required at the completion of the APPE. The results of this test must be supplied to the Office for Student Affairs to meet certification requirements for graduation. Students may petition for exemption from immunizations and TB skin tests.

Insurance

Health insurance is required while enrolled in the college. Cost for this insurance is assumed by the student. Students also must obtain malpractice insurance.

Dean's List

More Info (http://pharmacy.ufl.edu/education/student-affairs/academics/deans-honor-roll)

The Dean's List recognizes outstanding academic achievement each semester. Grades of U, I* or N* will not be considered, regardless of the computed grade point average. Students must achieve at least 3.5 GPA in the semester with a minimum of 12 credits.

Graduation with Honors

More Info (http://pharmacy.ufl.edu/education/student-affairs/academics/academic-honors-requirements)

The university offers three levels of honors at graduation: cum laude, magna cum laude and summa cum laude. The honors information provided in the table is brief, and students should check with an advisor for complete details.

Degree Requirements

Professional Curriculum for the Doctor of Pharmacy

Details about the coursework required for the Doctor of Pharmacy (http://pharmacy.ufl.edu/education/student-affairs/doctor-of-pharmacy-curriculum) as well as the policies, procedures and admissions requirements are available on the college website.

Course requirements for the Doctor of Pharmacy include:

- the general education requirements,
- pharmacy prerequisites and
- four years of professional preparation.

Courses in the professional curriculum (http://pharmacy.ufl.edu/education/student-affairs/academics/class-schedules-and-registration) are periodically revised to meet pharmacy education standards.

Changes in course descriptions, credits and sequence may require modification due to availability of resources and facilities as well as changes in accreditation standards and actions by the college's curriculum committee. Any change in the curriculum will be noted in pharmacy brochures and on the website. Current information is also available from the college's Office for Student Affairs.

Graduate Programs

More Info (http://pharmacy.ufl.edu/education/online-ms-programs)

For information on graduate degrees in the pharmaceutical sciences, refer to the Graduate Catalog and consult:
Dean's Office, College of Pharmacy
P. O. Box 100484, HPNP Building
University of Florida
Gainesville, FL 32610-0484
352.273.6301

Doctor of Pharmacy/Master of Business Administration

This program allows students interested in management positions in pharmacy to obtain the two degrees concurrently. The program is five years of professional studies after completion of two years of preprofessional courses. Candidates must meet admission requirements for the M.B.A. program after admission to the College of Pharmacy. This concurrent program is not open to students who already have earned one of the degrees. Students must satisfy curriculum requirements for both degrees.

Doctor of Pharmacy/Master of Public Health

More Info (http://file.cop.ufl.edu/studaff/joint_degrees/mph.pdf)

This program allows students interested in public health as an aspect of pharmaceutical care to obtain the two degrees concurrently. The program is five years of professional studies after completion of two years of pre-pharmacy courses. Candidates must meet admission requirements for the M.P.H. program after admission to the College of Pharmacy. This concurrent program is not open to students who already have earned one of the degrees. Students must satisfy curriculum requirements for both degrees.

Doctor of Pharmacy/Doctor of Philosophy in Pharmaceutical Sciences

More Info (http://pharmacy.ufl.edu/files/2010/05/PharmDPhD.pdf)

This program allows students interested in accelerated graduate studies in pharmacy to obtain the two degrees consecutively. The program is four years of professional studies and three to four years of graduate studies after completion of two years of pre-professional courses. Candidates must meet admission requirements of the Graduate School and the College of Pharmacy. This program is not open to students who already have earned one of the degrees. Students must satisfy curriculum requirements for both degrees.

Doctor of Pharmacy/Juris Doctorate

This program allows students interested in law as an integral component of their career path to obtain two degrees in a shorter time frame. The program is a minimum of six years of professional studies after completion of two years of pre-professional coursework. Candidates must meet admission requirements for the Juris Doctorate through the Levin College of Law and the Doctor of Pharmacy degree through the College of Pharmacy. This program is not open to students who already have earned one of the degrees. Students must satisfy curriculum requirements for both degrees.

Programs

Preprofessional Course Requirements for the Doctor of Pharmacy

Read the sections describing general education requirements. Preprofessional pharmacy students are expected to fulfill these requirements.

Course requirements for the Doctor of Pharmacy include the preprofessional curriculum and four years of professional preparation. Courses in the professional curricula are revised periodically to meet pharmacy education standards.

All Doctor of Pharmacy students complete required courses and elective requirements for a total of 146 credits for the professional curriculum (http://pharmacy.ufl.edu/education/student-affairs/academics/class-schedules-and-registration) and 77-79 credits in the preprofessional program.

- Pharmacy | Preprofessional

Pharmacy | Preprofessional

Course requirements for the Doctor of Pharmacy include the preprofessional curriculum and four years of professional preparation. Courses in the professional curricula are revised periodically to meet pharmacy education standards. Current information on the curriculum can be obtained from the Office for Student Affairs in the College of Pharmacy.

About this Program

- **College:** Pharmacy
- **Degree:** Doctor of Pharmacy | *After completion of professional courses*
- **Credits for Degree:** 63-66 in the preprofessional curriculum | 146 in the professional curriculum
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

All Doctor of Pharmacy students complete required courses and elective requirements of 63-66 credits in the preprofessional program and 146 total credits in the professional curriculum.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=512001&track=01) may be used for transfer students.

Semester 1

- Complete CHM 2045/CHM 2045L

Semester 2

- Complete 3 additional courses of the remaining 10 critical-tracking courses, including labs: APK 2100C or ZOO 3713C, APK 2105C or PCB 4723C, BSC 2010/BSC 2010L, BSC 2011/BSC 2011L, CHM 2210, CHM 2211/CHM 2211L, CHM 2046/CHM 2046L, MAC 2311, MCB 3020, STA 2023
- 3.0 GPA or higher preferred for all science courses

Semester 3

- Complete 4 additional courses of the remaining 10 critical-tracking courses, including labs (2 of the courses must be CHM 2210, and APK 2100C or ZOO 3713C)
- 3.0 GPA or higher preferred for all science courses

Semester 4

- Complete all 11 critical-tracking courses, including labs
- Satisfactory score on the PCAT test
- Complete the personal profile essay/campus preference form, letters of recommendation, PharmCAS application and the UF application by February 1
- Approval of college admission committee
- 3.0 GPA or higher preferred for all science courses

Semester 5

- 3.0 GPA or higher preferred for all science courses

Model Semester Plan

Semester one below may not be the first semester at the university. Semester one refers to the first semester of preprofessional science and mathematics courses. Students who already have satisfied the criteria for a particular semester will be assigned a semester to begin the tracking program.

Critical-tracking courses should be completed in the semester indicated.

Students are required to complete IDS 1161 in semester 1 or 2. Students admitted to pharmacy school must complete BCH 4024 before enrollment.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences) [1]	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences) [1]	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15
Semester Two		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences) [1]	4
CHM 2046	General Chemistry 2 (**Critical Tracking**; Gen Ed Physical Sciences) [1]	3
CHM 2046L	General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics) [1]	3
	Credits	14

Semester Three		
Anatomy		4
APK 2100C or ZOO 3713C	Applied Human Anatomy with Laboratory (**Critical Tracking**) [1] or Functional Vertebrate Anatomy	
CHM 2210	Organic Chemistry 1 (**Critical Tracking**) [1]	3
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences and Diversity (p. 23); Writing Requirement [2]		3
Gen Ed Social and Behavioral Sciences [2]		3-4
ECO 2013 or ECO 2023	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences) or Principles of Microeconomics	
	Credits	16-17
Semester Four		
Physiology		4-5
APK 2105C or PCB 4723C	Applied Human Physiology with Laboratory (**Critical Tracking**) [1] or Physiology and Molecular Biology of Animals	
CHM 2211	Organic Chemistry 2 (**Critical Tracking**)	3
CHM 2211L	Organic Chemistry Laboratory (**Critical Tracking**) [1]	2
MCB 3020	Basic Biology of Microorganisms (**Critical Tracking**; can be taken in the summer semester) [1]	3
State Core Gen Ed Humanities with International (p. 23); Writing Requirement [3]		3
	Credits	15-16
Summer After Semester Four		
Select one:		3-4
BCH 3025	Fundamentals of Biochemistry [1]	
BCH 4024	Introduction to Biochemistry and Molecular Biology	
	Credits	3-4
	Total Credits	63-66

1 Preprofessional courses.

2 Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another Gen Ed requirement (typically, GE-H or S).

3 Can be taken in prior spring semester.

College of Veterinary Medicine

The College of Veterinary Medicine was authorized by the Florida Legislature in 1965 and opened its doors to students in 1976. Florida's College of Veterinary Medicine is concerned with the total health of all members of the animal kingdom, including man.

Contact

2015 SW 16th Avenue
352.294.4244

Map (http://campusmap.ufl.edu/?loc=1017) More Info (http://www.vetmed.ufl.edu)

Pre-vet Advising
Veterinary Academic Building
Room V1-100L
352.294.8254

Admissions
Veterinary Academic Building
352.294.8804
Email (StudentServices@vetmed.ufl.edu)

Mailing Address
Office for Academic and Students Affairs
College of Veterinary Medicine
P.O. Box 100125
University of Florida
Gainesville, FL 32610-0125

Modern veterinarians serve the needs of the public in many significant ways:

- Prevention of disease in animals and humans
- Enhancement of animal agriculture and wildlife management
- Humane health care of animals
- Research on diseases of animals
- Provision of wholesome food

To answer these challenges, the goals of the College of Veterinary Medicine are to:

- Educate veterinarians for Florida's specific needs.
- Perform research on metabolic and infectious diseases of animals. These investigations will provide new knowledge concerning diseases of domestic animals, will assist in the control of devastating subtropical diseases that must be controlled to provide wholesome food for our nation and developing countries, and will provide insight into human diseases for which animal models exist.
- Provide a veterinary medical center necessary for training interns, residents and graduate students, and for the continuing education of practitioners.

- Provide a resource for dissemination of current information to veterinary practitioners, state and federal agricultural and public health agencies, and consumers of food and health services.
- Serve as a center where veterinary practitioners can consult with specialists and where animal patients can be referred for sophisticated diagnostic procedures. This will provide a service to practitioners and afford veterinary students access to more cases and a greater variety of disease entities.

Curriculum

Veterinary students participate in the professional degree program leading to the Doctor of Veterinary Medicine (D.V.M.), which requires 150 semester credits for graduation. Students with a cumulative grade point average (GPA) of 3.50 or above may graduate *cum laude*. A cumulative GPA of 3.75 or above is required for *magna cum laude* recognition.

The professional curriculum provides a nine-semester program consisting of core didactic classes and clinical clerkship experiences. Three phases of study within the veterinary medical curriculum are based conceptually on:

- the study of the normal animal (Phase I),
- the study of disease processes and therapy (Phase II), and
- clinical applications (Phase III).

Phases I and II are organized on an organ system basis; each system is considered in turn, an approach that lends itself to the concept of comparative medicine. Phase I occupies the first two semesters of the curriculum; Phase II the second two semesters. During Phase III (semesters 5-9) the student enters rotations through the required clerkships and elective areas of concentration.
More Info (http://education.vetmed.ufl.edu/admissions/curriculum)

Undergraduate Preparation

Students intending to apply for admission to the College of Veterinary Medicine should plan to complete a bachelor's degree. However, outstanding students may be admitted after three years of preprofessional coursework.

Sequencing of preprofessional coursework should be planned carefully, preferably under the guidance of preprofessional advisors. The Office for Academic and Student Affairs welcomes inquiries of a general nature, but semester-by-semester course scheduling should be monitored by the college offering the bachelor's degree.

Pre-veterinary students may major in a program offered by any department or college but must complete the preprofessional requirements. Applicants to the professional curriculum must present a minimum of 80 credits of college-level coursework, exclusive of physical education and military training courses.

Credit for Advanced International Certificate of Education (AICE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Programs (CLEP) is acceptable at the level identified in the academic advising section of this catalog.

Admission

Student selection for the College of Veterinary Medicine will be made by the dean based on recommendation of the College Admissions Committee using the following criteria as the basis for selection:

- Residency
- Academic Performance
- Animal and Veterinary Experience
- Evaluation Forms and References
- Extracurricular Activities
- Communicative Skills
- Candidate interview
- Competitiveness of the Applicant Pool

When to Apply

The College of Veterinary Medicine is a participant in the Veterinary Medical College Application Service (VMCAS). Applications are available in May via VMCAS. In addition to completing the VMCAS application, applicants must also complete and submit a required UF vet med professional application.
More Info (http://education.vetmed.ufl.edu/admissions/application)

This secondary application is used to determine residency for tuition purposes. The completed secondary application must be received by the submission deadline of the VMCAS application. Admission is granted only for the fall semester of each school year and only on a full-time basis.

Colleges and Schools

- Accounting, Fisher School of
- Agricultural and Life Sciences, College of
- Arts, College of the
- Business, Heavener School of
- Construction Management, M.E. Rinker, Sr., School of
- Design, Construction and Planning, College of
- Education, College of
- Engineering, Herbert Wertheim College of
- Health and Human Performance, College of
- Journalism and Communications, College of
- Liberal Arts and Sciences, College of
- Natural Resources and Environment, School of
- Nursing, College of
- Public Health and Health Professions, College of

Agricultural and Life Sciences, College of

Established in 1870, the mission of the College of Agricultural and Life Sciences is to deliver unsurpassed educational programs that prepare students to address the world's critical challenges related to agriculture, food systems, human well-being, natural resources and sustainable communities.

Contact

2020 McCarty Hall D
P.O. Box 110270
University of Florida
Gainesville, FL 32611-0270

352.392.1963

Map (http://campusmap.ufl.edu/?loc=0498) More Info (http://cals.ufl.edu)

Academic Advising
2020 McCarty Hall D
352.392.1963

Established

1870

Academic Advising

Each major has an undergraduate coordinator and faculty and staff advisors. Students see advisors in their majors for academic advising.
More Info (http://cals.ufl.edu/students/undergraduate-majors-contacts.php)

Internships and Career Guidance

The college's director of Alumni and Career Services assists students with interview preparation and job search resources. The college also sponsors CALS Career Expo in February.

Scholarships

The college provides nearly $400,000 annually in undergraduate scholarships. Applications are available in December. College scholarship applications are typically due on or before March 15 of each year. For more information, contact the college dean's office. Many departments also offer undergraduate scholarships.
More Info (http://cals.ufl.edu/students/scholarships.php)

Helpful Links

- College Website (http://cals.ufl.edu)
- Combined Degrees (p. 1400)
- Computer Requirement (http://www.it.ufl.edu/policies/student-computing-requirements)
- Dean's List (p. 1385)

Academic Policies

Admission | Freshmen

First-semester freshmen at the university will be admitted to the college when they declare a major. Students can remain in that major as long as they continue to meet or to exceed the critical-tracking criteria for the major. Students who fall below the minimum critical-tracking criteria or who fall below the minimum progression standards will not be allowed to continue in the major. These students must meet with an academic advisor to determine an alternative major.

Admission | Non-Freshmen

All UF students other than first-semester freshmen must apply to a major in this college. Students should first meet with an advisor in their major of interest. Unless otherwise specified by particular majors, students will be admitted to the major if they meet or exceed the critical-tracking criteria.

Readmission to the College

CALS students who have been dismissed from the university for poor academic performance can petition UF and the college for readmission after one semester.

Transfer Students

A transfer student from a Florida public college must have an Associate of Arts degree (or 60 credits for students transferring from private institutions, four-year institutions or institutions outside of Florida) and satisfy the admission requirements for the intended major to be eligible for admission to the college. Prospective transfer students should consult the College of Agricultural and Life Sciences Transfer Guide to ensure completion of the required courses for admission to the college and the major of interest.
More Info (https://cals.ufl.edu/content/PDF/Transfer_Guide.pdf)

Detailed information on transfer admission and university admission requirements is available from the Office of Admissions.
More Info (p. 15)

Transfer students from other universities and non-Florida public colleges should complete the first two years' requirements for the major before transferring to UF and to this college.

Student Responsibility

Students are expected to assume full academic responsibility for registering for and completing the proper courses and for fulfilling all requirements for the degree. Students should consult their advisors before registering for each semester to ensure that appropriate courses are taken in the proper sequence. Students who do not enroll in appropriate courses may not be allowed to register for the following term.

College Probation

A student whose overall grade point average falls below 2.0 is placed on college probation. The associate dean will notify the student that they are on probation and must remove all deficit points in two semesters or face college suspension.

During college suspension a student cannot register as a College of Agricultural and Life Sciences student.

College Retention Program

The college works individually with students on college probation to provide them an opportunity for academic success at the university. The retention program identifies obstacles that could prevent academic success, provides structure and mechanisms for success and connects students to administrators, faculty and staff who are committed to helping them.

Critical-Tracking Criteria

Students who do not complete the appropriate number of tracking courses each semester, and/or do not have the required tracking GPA, will have a hold placed on their record to prevent advance registration. They must meet with an advisor in their major to determine whether they may continue in that major.

Drop Policy

Students can drop courses during the drop/add period without penalty. Thereafter, courses can be dropped only by college petition in accordance

with the deadlines. Drops requiring college petition are subject to the following rules:

- After the university's drop deadline, students must first meet with an academic advisor in their major and then submit a petition to the college office.
- Students who withdraw from UF (drop all courses) must go to the Dean of Students Office, 202 Peabody Hall, to meet with an advisor.

General Education

Courses that satisfy general education requirements are listed by category. The courses listed represent the most expedient way to fulfill graduation requirements. However, students can satisfy degree requirements with alternative course sequences. An economics course is required for all students and this course may also meet general education requirements.

The college requires all students to complete courses in oral and written communication in addition to the general education requirements. In majors where an equivalency is permitted, students should see their advisors for approved alternative courses. When majors list specific courses, students must select courses from the list.

Internships

By prior arrangement with an advisor and with supervision, a student may receive credit for practical work experience relevant to the major. Credit is earned at the rate of one credit per month of full-time work and cannot exceed three credits in any combination of work experience. A written report must be submitted before a (S or U) grade will be issued. Academic units offering this option list the course number 4941. Minimum criteria and general guidelines are available from the undergraduate coordinator for the major.

College Honors Program

The CALS honors program is for students who have completed 60-90 credits and have a 3.75 or higher overall GPA.
More Info (http://cals.ufl.edu/students/honors-program.php)

CALS honors coursework integrates with required and elective courses in the student's chosen curriculum. To graduate as a CALS honors scholar, students must complete each requirement below and maintain a minimum upper-division GPA of 3.75.

- ALS 3923
- XXX 4915 Honors Thesis Research (3 credits)
- Two additional honors courses
- Honors thesis. Thesis projects are scholarly activities in teaching, research or extension that involve guided independent work. The student's project must have clear objectives and expected outcomes.

CALS honors coursework is identified as such on the transcript. Students who complete the program successfully are designated *CALS honors scholars* and receive a scholar's medallion and certificate.

Completion of the CALS honors program automatically qualifies students for graduation with *magna cum laude* or *summa cum laude* designation.

Students who are not in the CALS honors program can still graduate *magna cum laude* or *summa cum laude*, provided they have the necessary GPA and complete the honors thesis.

For additional information, contact the CALS honors program director at 352.392.1963.

Helpful Links

- Dean's List (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#deanslisttext)

Degree Requirements

A Bachelor of Science or Bachelor of Arts degree requires a minimum of 120 credits. In addition, students must have university and junior/senior-level minimum GPAs of 2.0.

Students must complete the general education and major requirements in effect at the time of their initial enrollment at UF.

Seniors must file an online application for degree with the Office of the University Registrar early in the semester in which they expect to graduate.
More Info (http://www.registrar.ufl.edu/currents/degreeapp.html)

Graduating with Honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

Residence

The College of Agricultural and Life Sciences requires completion of 60 semester credits or more of coursework at the university for award of a baccalaureate degree. Some coursework can be taken at other accredited four-year institutions with approval of the college.

The last 30 semester credits applied toward a degree must be completed in residence in the college. In special cases, the college can waive this requirement.

Students can complete six of the required 30 credits of residence work by flexible learning, but each course must be approved in advance by the undergraduate coordinator for the major and by the college. The college will not accept flexible credit unless a student has a minimum upper-division GPA of 2.0 in all work attempted in residence.

Programs

MAJORS

The college's majors encompass agricultural sciences, natural sciences, social sciences, life sciences and preprofessional studies. Programs in the college prepare students for professional studies in dentistry, law, medicine, pharmacy and veterinary medicine as well as graduate study.

- Agricultural Education and Communication
- Agricultural Operations Management
- Animal Sciences
- Biology | CALS
- Botany | CALS
- Dietetics
- Entomology and Nematology
- Environmental Management in Agriculture and Natural Resources | Interdisciplinary Studies
- Family, Youth and Community Sciences
- Food and Resource Economics
- Food Science
- Forest Resources and Conservation

- Geomatics
- Horticultural Science
- Marine Sciences | CALS
- Microbiology and Cell Sciences | CALS
- Natural Resource Conservation
- Nutritional Sciences
- Plant Science
- Soil and Water Sciences
- Wildlife Ecology and Conservation

MINORS

- Agricultural and Natural Resource Ethics and Policy Minor
- Agricultural and Natural Resource Law Minor
- Agricultural Communication Minor
- Agricultural Curriculum & Development Minor
- Bioinformatics Minor
- Entomology and Nematology Minor
- Environmental Horticulture Minor
- Extension Education Minor
- Family, Youth and Community Sciences Minor
- Fisheries and Aquatic Sciences Minor
- Food and Resource Economics Minor
- Food Science Minor
- Forest Resources and Conservation Minor
- Golf and Sports Turf Management Minor
- Horticultural Science Minor
- International Development and Humanitarian Assistance Minor
- International Studies in Agricultural and Life Sciences Minor
- Leadership Minor
- Management and Sales in Agribusiness Minor
- Nonprofit Organizational Leadership Minor
- Nutritional Sciences Minor
- Organic and Sustainable Crop Production Minor
- Packaging Science Minor
- Plant Molecular and Cellular Biology Minor
- Plant Science Minor
- Precision Agriculture Minor
- Soil and Water Sciences Minor
- Wildlife Ecology and Conservation Minor

CERTIFICATES

- CALS Honor Scholar Certificate
- Challenge 2050 | Global Leadership and Change Certificate
- Environmental Horticulture Management Certificate
- Family Life Education Certificate
- Geomatics Certificate
- Landscape Pest Management Certificate
- Mapping with Small Unmanned Aerial Systems Certificate
- Medical Entomology Certificate
- Pest Control Technology Certificate
- Urban Pest Management Certificate

UF ONLINE MAJORS

- Environmental Management in Agriculture and Natural Resources | Interdisciplinary Studies UF Online
- Microbiology and Cell Science UF Online

Statewide Academic Programs

Recognizing the needs of nontraditional students, the university offers several Bachelor of Science degree programs at the following locations or via distance education:

- Apopka (http://mrec.ifas.ufl.edu): Plant science
- Fort Lauderdale (http://flrec.ifas.ufl.edu): Geomatics, plant science
- Milton (http://wfrec.ifas.ufl.edu): Natural resource conservation, plant science
- Plant City (http://gcrec.ifas.ufl.edu/pcc): Agricultural education and communication, geomatics, plant science
- Online: Environmental management in agriculture and natural resources (p. 133), microbiology and cell science (p. 224)

Students must first earn an A.A. degree from a Florida public college or 60 credits from another accredited institution, complete specific prerequisite courses, meet a specific GPA requirement and apply for admission to UF. After being accepted, students can pursue a Bachelor of Science without moving to Gainesville.

These students are also eligible for UF and CALS scholarships. UF faculty members teach and advise all students, and upon completion of the program requirements, UF confers the degree.

Courses in these programs are also available to the general public for continuing education.

Preprofessional Programs

Several CALS majors have specializations that help students complete the preprofessional requirements for admission to the colleges of dentistry, law, medicine, pharmacy and veterinary medicine.

- Students preparing for law careers can select any major in the college.
- Specializations in animal sciences, biology, botany, entomology and nematology, food science, microbiology and cell science, nutritional sciences, and wildlife ecology and conservation prepare students for programs in medicine, dentistry, veterinary medicine, optometry and pharmacy.
- Biology majors and nutritional sciences majors are eligible for the Junior Honors Medical Program.
- Qualified students can apply to the honors combined BS/DMD program (http://dental.ufl.edu/admissions/dmd-program/honors-combined-bs-dmd-program) in the College of Dentistry after one semester in their freshman year at UF. This program helps highly motivated students complete the bachelor's degree and D.M.D. in a shorter time than the two traditional programs. Participants major in microbiology and cell science or nutritional sciences. Both majors provide the science foundation required for dental school.

Agricultural and Natural Resource Ethics and Policy Minor

The interdisciplinary agricultural and natural resource ethics and policy minor is available to undergraduate students who wish to augment their technical training in the agricultural and natural resource-related disciplines with selected liberal arts and sciences courses and College of Agricultural and Life Sciences policy-related courses.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15

The minor also helps to augment business, humanities, journalism or social sciences education with selected CALS courses in agricultural and natural resources issues and problems. The minor provides additional preparation for careers in education, business, law and politics.

Required Courses

Code	Title	Credits
AEB 4126	Agricultural and Natural Resource Ethics	3
Agriculture and Natural Resources electives		6
Ethics, Social, and Political Analysis electives		6
Total Credits		15

Approved Electives

Agriculture and Natural Resources Electives

Code	Title	Credits
AEB 3450	Introduction to Natural Resource and Environmental Economics [1]	3
AEB 4123	Agricultural and Natural Resource Law	3
AEB 4242	International Trade Policy in Agriculture	3
AEB 4283	International Development Policy	3
AGG 3501	Environment, Food and Society	3
ALS 3133	Agricultural and Environmental Quality	3
EES 4050	Environmental Planning and Design	3
FNR 4660	Natural Resource Policy and Economics	3
FOR 3004	Forests, Conservation and People	3
FOR 3153C	Forest Ecology	3
FOS 4731	Government Regulations and the Food Industry	2
WIS 4523	Human Dimensions of Natural Resource Conservation	3

[1] Cannot take AEB 3450 and ECP 3302 for credit towards the minor.

Ethics, Social, and Political Analysis Electives

Code	Title	Credits
ANT 4403	Environment and Cultural Behavior	3
ECP 3302	Environmental Economics and Resource Policy [1]	4
GEO 3372	Conservation of Resources	3
PHI 3650	Moral Philosophy	3
PHM 3032	Ethics and Ecology	3
PHM 3202	Political Philosophy	3
POT 2002	Introduction to Political Theory	3
POT 3503	Environmental Ethics and Politics	3

[1] Cannot take ECP 3302 and AEB 3450 for credit towards the minor.

Agricultural and Natural Resource Law Minor

The agricultural and natural resource law minor is open to undergraduates from all disciplines who wish to focus on business, environmental, and social regulatory issues related to the production of food, fuel, and fiber.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15

Required Courses

Code	Title	Credits
AEB 4085	Agricultural Risk Management and the Law	3
AEB 4123	Agricultural and Natural Resource Law	3
Approved electives		9
Total Credits		15

Other courses with a focus on policy, law, or business structure can be considered by the advisor for the minor.

Approved Electives

Code	Title	Credits
AEB 4126	Agricultural and Natural Resource Ethics	
AEB 4242	International Trade Policy in Agriculture	
AEB 4283	International Development Policy	
AEB 4424	Human Resources Management in Agribusiness	
BUL 4310	The Legal Environment of Business	
FNR 4660	Natural Resource Policy and Economics	
FOR 4664	Sustainable Ecotourism Development	
FOS 4731	Government Regulations and the Food Industry	
WIS 4523	Human Dimensions of Natural Resource Conservation	

Agricultural Communication Minor

Open to all students, the agricultural communication minor provides an opportunity to gain a basic understanding of and to develop a skill level for communication techniques in agriculture and natural resources.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with a minimum cumulative 2.5 GPA for courses in the minor
- **Related Agricultural Communication Programs**

Required Courses

Code	Title	Credits
Select five:		15
AEC 3030C	Effective Oral Communication [1]	
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences [2]	
AEC 3065	Issues in Agricultural and Life Sciences	
AEC 3070C	Digital Media Production in Agricultural and Life Sciences	
AEC 3073	Intercultural Communication	
AEC 3209	Instructional and Event Planning in Agricultural and Life Sciences	
AEC 4031	The Communication Process in Agricultural and Life Sciences	
AEC 4035	Communication Practices for Agricultural and Life Sciences	
AEC 4036	Advanced Agricultural Communication Production	
AEC 4052	Communication Campaign Strategies in Agricultural and Life Sciences	
AEC 4434	Communication and Leadership in Groups and Teams	
Total Credits		15

1 Or equivalent speech course.

2 Or equivalent writing course.

Related Agricultural Communication Programs

- Bachelor of Science in Agricultural Education and Communication (p. 46)

Agricultural Curriculum & Development Minor

This minor supplements academic majors and prepares students for careers in school-based agricultural education and other agricultural outreach programming. The minor offers coursework in formal educational methods, curriculum design, and program planning for youth programs.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15

With advisor and teacher education coordinator approval, all undergraduates in the college are eligible for this minor. Students in other colleges may also enroll with approval of the Department of Agricultural Education and Communication.

Required Courses

Code	Title	Credits
AEC 4200	Teaching Methods in Agricultural Education	3
AEC 4202	Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies	3
AEC 4228	Laboratory Practices in Teaching Agricultural Education	3
AEC 4323	Development and Philosophy of Agricultural Education	3
AEC 4504	Curriculum and Program Planning for Agricultural Education	3
Total Credits		15

Agricultural Education and Communication

With a focus on disseminating scientific knowledge, agricultural education and communication professionals empower communities to gain a balanced understanding of food systems, natural resources, and related sciences. Agricultural Education and Communication students supplement core technical agriculture courses with teaching, leadership, or media experiences.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Agricultural Education (p. 48) | Communication and Leadership Development (p. 51)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Agricultural Education and Communication Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Two specializations are offered: agricultural education, and communication and leadership development. Each requires core technical agriculture courses and preprofessional education. Department advisors help students in selecting appropriate electives.

Related Agricultural Education and Communication Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Agricultural Communication minor (p. 45)
- Extension Education minor (p. 136)
- Leadership minor (p. 215)

Academic Learning Compact

Students will learn the knowledge and skills needed to educate individuals, enhance leadership in communities and organizations and communicate ideas and issues to different audiences. Through formal courses and internship experiences, students will learn to apply principles of communication and educational theory to work-based settings; to create, interpret and analyze written and oral messages and multimedia presentations used in agricultural and life sciences; and to educate and communicate agricultural issues effectively to various audiences.

Before Graduating Students Must

- Agricultural education specialization: Achieve a passing grade on the state of Florida's Professional Knowledge Exam for teacher certification.
- Communication and leadership development specialization: Achieve a minimum grade of C in AEC 4052, the communication and leadership development capstone experience, as evaluated by a committee of faculty.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C.
- Achieve a minimum grade of C in a department internship course (AEC 4942, AEC 4943, AEC 4944 or AEC 4948) or a capstone experience course (AEC 4052).
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe, explain and apply fundamental pedagogical concepts, skills and processes.
2. Describe, explain and apply fundamental concepts, skills and processes in technical agriculture.

Critical Thinking

1. Analyze and apply data from multiple assessments and measures to diagnose students' learning needs, inform instruction based on those needs and drive the learning process.
2. Critique and assess data-informed research to improve instruction and student achievement.

Communication

1. Demonstrate written communication forms in a manner appropriate in agricultural education.
2. Develop oral communication presentations in a manner appropriate in agricultural education.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
AEC 3323	I, R					
AEC 4200	I, R			I, R, A		
AEC 4202	I, R		I, R, A		R	
AEC 4224	I, R				R	
AEC 4228	I, R					R
AEC 4942	R	R			R	R
Fla DoE Agriculture Subject Matter Exam		A				
Fla DoE Professional Certification Exam	A					
Self-Assessment	A	A	A	A		
Technical Agriculture Coursework		I, R				

Assessment Types

- Technical agriculture coursework
- Clinical teaching and community profile assignments
- Exams
- Self-assessment
- Florida Department of Education professional teaching certification exam
- Florida Department of Education Agriculture Subject Matter exam

Agricultural Education and Communication | Agricultural Education

With a focus on disseminating scientific knowledge, agricultural education and communication professionals empower communities to gain a balanced understanding of food systems, natural resources, and related sciences. Agricultural Education and Communication students supplement core technical agriculture courses with teaching, leadership, or media experiences.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Agricultural Education (p. 48) | Communication and Leadership Development (p. 51)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Agricultural Education and Communication Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Agricultural Education

The agricultural education specialization provides the basic courses for agricultural teacher certification in Florida. Students must have a minimum 2.5 GPA to enter the teacher education specialization and, during their first semester, attain a passing score on the general knowledge portion of the FTCE. An internship is required for this specialization. In addition, graduates must apply to the Florida Department of Education for certification.

This specialization is also offered at the Gulf Coast Research and Education Center in Plant City, Fla.

Related Agricultural Education and Communication Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Agricultural Communication minor (p. 45)
- Extension Education minor (p. 136)
- Leadership minor (p. 215)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=131301&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 4 critical-tracking courses, excluding labs: AEC 3030C (or equivalent), BSC 2005, BSC 2005L (or any GE-B or P laboratory), EDF 3110 (or equivalent) and MAC 1140 (or equivalent)
- 2.5 GPA required for all critical-tracking courses
- 2.5 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.5 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.5 UF GPA required

Semester 4

- Complete all critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.5 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
BSC 2005	Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	3
Select one:		1
BSC 2005L	Laboratory in Biological Sciences (**Critical Tracking**; Gen Ed Biological Sciences)	
Gen Ed Biological or Physical Sciences (**Critical Tracking**; Laboratory)		
Select one:		3
EDF 3110	Human Growth and Development (**Critical Tracking**)	
EDF 3122	The Young Child (**Critical Tracking**)	
EDF 3132	The Young Adolescent (**Critical Tracking**)	
EDF 3135	The Adolescent (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
EDF 3210	Educational Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
State Core Gen Ed Composition (p. 23)		3
Elective		2
	Credits	15-16
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1140	Precalculus Algebra (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Elective		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Biological or Physical Sciences		3
	Credits	15
Semester Three		
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	3
EDF 2085	Teaching Diverse Populations	3
RED 3312	Content Area Literacy	3
Gen Ed Composition		3
STA 2023	Introduction to Statistics 1 (recommended; Gen Ed Mathematics)	3
	Credits	15
Semester Four		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
Elective		3
Gen Ed Humanities		3
Gen Ed Physical Sciences		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Five		
AEB 3133	Principles of Agribusiness Management	3
AEC 4323	Development and Philosophy of Agricultural Education	3
AEC 4504	Curriculum and Program Planning for Agricultural Education	3
ANS 3006 & 3006L	Introduction to Animal Science and Introduction to Animal Science Laboratory	4
TSL 4324	ESOL Strategies for Content Area Teachers	3
	Credits	16

Semester Six		
AEC 4228	Laboratory Practices in Teaching Agricultural Education	3
Select one:		3
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	
IPM 3022	Fundamentals of Pest Management	
ENY 3030C	Insect Field Biology	
ENY 3007C	Life Science	
ENY 4161	Insect Classification	
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory	4
Agricultural or life sciences elective		3
Horticulture or plant science elective		3
	Credits	16
Semester Seven		
AEC 4200	Teaching Methods in Agricultural Education	3
AEC 4202	Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies	3
AOM 3220	Agricultural Construction and Maintenance	3
Agricultural or life sciences electives		7
	Credits	16
Semester Eight		
AEC 4224	Special Methods in Teaching Agricultural Education	3
AEC 4942	Agricultural Education Internship	9
	Credits	12
	Total Credits	120

Total agricultural or life sciences courses required: 30 credits in at least four areas.

Academic Learning Compact

Students will learn the knowledge and skills needed to educate individuals, enhance leadership in communities and organizations and communicate ideas and issues to different audiences. Through formal courses and internship experiences, students will learn to apply principles of communication and educational theory to work-based settings; to create, interpret and analyze written and oral messages and multimedia presentations used in agricultural and life sciences; and to educate and communicate agricultural issues effectively to various audiences.

Before Graduating Students Must

- Agricultural education specialization: Achieve a passing grade on the state of Florida's Professional Knowledge Exam for teacher certification.
- Communication and leadership development specialization: Achieve a minimum grade of C in AEC 4052, the communication and leadership development capstone experience, as evaluated by a committee of faculty.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C.
- Achieve a minimum grade of C in a department internship course (AEC 4942, AEC 4943, AEC 4944 or AEC 4948) or a capstone experience course (AEC 4052).
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe, explain and apply fundamental pedagogical concepts, skills and processes.
2. Describe, explain and apply fundamental concepts, skills and processes in technical agriculture.

Critical Thinking

3. Analyze and apply data from multiple assessments and measures to diagnose students' learning needs, inform instruction based on those needs and drive the learning process.
4. Critique and assess data-informed research to improve instruction and student achievement.

Communication

5. Demonstrate written communication forms in a manner appropriate in agricultural education.
6. Develop oral communication presentations in a manner appropriate in agricultural education.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
AEC 3323	I, R					
AEC 4200	I, R			I, R, A		
AEC 4202	I, R		I, R, A		R	
AEC 4224	I, R				R	
AEC 4228	I, R					R
AEC 4942	R	R			R	R
Fla DoE Agriculture Subject Matter Exam		A				
Fla DoE Professional Certification Exam	A					
Self-Assessment	A	A	A	A		
Technical Agriculture Coursework		I, R				

Assessment Types

- Technical agriculture coursework
- Clinical teaching and community profile assignments
- Exams
- Self-assessment
- Florida Department of Education professional teaching certification exam
- Florida Department of Education Agriculture Subject Matter exam

Agricultural Education and Communication | Communication and Leadership Development

With a focus on disseminating scientific knowledge, agricultural education and communication professionals empower communities to gain a balanced understanding of food systems, natural resources, and related sciences. Agricultural Education and Communication students supplement core technical agriculture courses with teaching, leadership, or media experiences.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Agricultural Education (p. 48) | Communication and Leadership Development (p. 51)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Agricultural Education and Communication Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Communication and Leadership Development

Communication and leadership development prepares students for entry into agribusiness and communication positions related to human resource development, strategic communication, governmental relations, media relations, corporate training and development, and non-formal education. To build the capacity of students within the CLD undergraduate specialization to serve as catalysts in society, they will take a sequence of courses in both communication and leadership to build upon individual skill sets and specific interests of the student. All students within this specialization will further enhance their knowledge and skills in communication and leadership within the context of agricultural and life sciences through courses that will provide them foundations in all forms of communication (digital, speaking, and writing) and leadership (interpersonal, groups and teams, organizations and global) in addition to specific areas such as social media, change, public issues and campaign strategies.

To graduate, students must earn minimum grades of C in:

Code	Title	Credits
AEC 3073	Intercultural Communication	3
AEC 3070C	Digital Media Production in Agricultural and Life Sciences	3
AEC 3414	Leadership Development	3
AEC 4031	The Communication Process in Agricultural and Life Sciences	3
AEC 4052	Communication Campaign Strategies in Agricultural and Life Sciences	3
AEC 4434	Communication and Leadership in Groups and Teams	3

This specialization is also offered at the Gulf Coast Research and Education Center in Plant City, Fla.

Related Agricultural Education and Communication Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Agricultural Communication minor (p. 45)
- Extension Education minor (p. 136)
- Leadership minor (p. 215)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=131301&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses, excluding labs: AEC 3030C (or equivalent), AEC 3033C (or equivalent), BSC 2005, BSC 2005L (or any GE-B or P laboratory), MAC 1140 (or equivalent), PSY 2012
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	

ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
BSC 2005	Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	3
Select one:		1
BSC 2005L	Laboratory in Biological Sciences (**Critical Tracking**; Gen Ed Biological Sciences)	
Any Gen Ed Biological Sciences or Physical Sciences Laboratory (**Critical Tracking**)		
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		2
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Semester Two		
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1140	Precalculus Algebra (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Elective		3
Gen Ed Biological or Physical Sciences		3
	Credits	15
Semester Three		
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
Gen Ed Composition		3
American history or political science elective (Gen Ed Social and Behavioral Sciences)		3
Gen Ed Diversity or International		3
STA 2023	Introduction to Statistics 1 (recommended; Gen Ed Mathematics)	3
	Credits	15
Semester Four		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (**Critical Tracking**; Writing Requirement)	3
AEC 3065	Issues in Agricultural and Life Sciences	3
Electives		6
Gen Ed Physical Sciences		3
	Credits	15
Semester Five		
AEC 3070C	Digital Media Production in Agricultural and Life Sciences	3
AEC 3073	Intercultural Communication (Gen Ed Social and Behavioral Sciences with Diversity or International)	3
AEC 3413	Working with People: Interpersonal Leadership Skills	3
AEC 3414	Leadership Development	3
AEC 4031	The Communication Process in Agricultural and Life Sciences	3
	Credits	15
Semester Six		
AEB 3133	Principles of Agribusiness Management	3
AEC 4035	Communication Practices for Agricultural and Life Sciences (Writing Requirement)	3
Select two:		6
AEC 3209	Instructional and Event Planning in Agricultural and Life Sciences	
AEC 4036	Advanced Agricultural Communication Production	
AEC 4417	Leadership for Personal and Organizational Change	
AEC 4465	Global Leadership	
FYC 4408	Organizational Leadership for Nonprofits	
PUR 3000	Principles of Public Relations	
Approved elective in area of concentration		3
	Credits	15
Summer After Semester Six		
Select one:		3
AEC 4943	Leadership Development Internship	
AEC 4948	Agricultural Communication Internship	
Approved elective		
	Credits	3
Semester Seven		
Select one:		3
AEB 4085	Agricultural Risk Management and the Law (fall)	
AEB 4123	Agricultural and Natural Resource Law (spring)	

AEB 4126	Agricultural and Natural Resource Ethics	
Similar ethics course		
AEC 4434	Communication and Leadership in Groups and Teams	3
Agriculture/natural resource elective		3
Approved electives in area of concentration		6
	Credits	15
Semester Eight		
AEC 4052	Communication Campaign Strategies in Agricultural and Life Sciences	3
Select one:		3
AEC 3209	Instructional and Event Planning in Agricultural and Life Sciences	
AEC 4036	Advanced Agricultural Communication Production	
AEC 4417	Leadership for Personal and Organizational Change	
AEC 4465	Global Leadership	
FYC 4408	Organizational Leadership for Nonprofits	
PUR 3000	Principles of Public Relations	
Agriculture/natural resource elective		3
Approved elective in area of concentration		3
	Credits	12
	Total Credits	120

Academic Learning Compact

Students will learn the knowledge and skills needed to educate individuals, enhance leadership in communities and organizations and communicate ideas and issues to different audiences. Through formal courses and internship experiences, students will learn:

- to apply principles of communication and educational theory to work-based settings;
- to create, interpret and analyze written and oral messages and multimedia presentations used in agricultural and life sciences; and
- to educate and communicate agricultural issues effectively to various audiences.

Before Graduating Students Must

- Agricultural education specialization: Achieve a passing grade on the state of Florida's Professional Knowledge Exam for teacher certification.
- Communication and leadership development specialization: Achieve a minimum grade of C in AEC 4052, the communication and leadership development capstone experience, as evaluated by a committee of faculty.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C.
- Achieve a minimum grade of C in a department internship course (AEC 4942, AEC 4943, AEC 4944 or AEC 4948) or a capstone experience course (AEC 4052).
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe, explain and apply appropriate communication and leadership development skills and methods to communicate and lead audiences effectively.
2. Describe, explain and apply communication and leadership development concepts to various audiences and situations.

Critical Thinking

3. Analyze and assess information related to communication and leadership development issues.
4. Solve problems in communication and leadership development.

Communication

5. Demonstrate written communication forms in a manner appropriate in communication and leadership development.
6. Develop oral communication presentations in a manner appropriate in communication and leadership development.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C					I	
AEC 3033C						I

AEC 3070C	I	I				R
AEC 3073		I	I	I	R	R
AEC 3209	R	R	R	R		R
AEC 3413		I	I	I		
AEC 3414	I	I	I	I	R	
AEC 4031	R	R		R	R	
AEC 4052	A	R	R	A	A	A
AEC 4434	R	A	A	R	R	R
Self-Assessment	A	A	A	A	A	A

Assessment Types

- Work plans and case studies
- Research reports
- Critiques
- Group presentations
- Self-assessment

Agricultural Operations Management

Agricultural Operations Management combines hands-on applied coursework and core business principles with emerging technologies and sustainable methods. Students gain experience in systems management, environmental quality, energy efficiency, agricultural machinery, GIS/GPS technology, remote sensing, irrigation, power systems, water control, and precision agriculture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related AOM Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students gain technical experience in systems management, environmental quality, energy efficiency, agricultural machinery, GIS/GPS remote sensing, computers programs, irrigation, power systems, water control and precision agriculture. Through interdisciplinary, holistic training in agricultural, natural systems, and business management, AOM students can identify systems problems, formulate possible solutions, evaluate the impact of alternatives and then implement a best solution.

The curriculum supports students who plan to seek career opportunities in commercial business operations and management. In addition to hands-on applied skills, students also will take courses in economics, accounting, business, finance, sales and business management.

For graduates in AOM, there is an abundance of job opportunities. The program provides a solid foundation in management of technical assets, infrastructure, money, and personnel. Graduates become an integral part of the profitable operations of many types of businesses, such as grove management, commercial nurseries, building construction and materials, cattle operations, regulatory agencies and citrus processing.

A major strength of the AOM program is its small class sizes. Students benefit from engaging discussion in a welcoming environment, interacting with and getting to know professors, and connecting with classmates through hands-on projects, activities and club functions.

The Agricultural Operations Management program is housed in Frazier-Rogers Hall with laboratories, classrooms and a student computing lab, and also features an additional
off-site construction laboratory on Museum Road.

The program features electives in focused areas of concentration:

- Sustainable Energy and Facilities
- Agribusiness Management
- Animal Production Management
- Fishery and Aquatic Production

- Horticulture and Crop Management
- Soil and Water Science

Related AOM Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Precision Agriculture minor (p. 292)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=140301&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 8 critical-tracking courses, excluding labs, with a minimum grade of C: ACG 2021, BSC 2010 and BSC 2010L, CHM 2045 and CHM 2045L, ENC 2210, MAC 1147 or MAC 2233, PHY 2004 or PHY 2020, PSY 2012, and SPC 2608 or AEC 3030C.
- 2.0 GPA required for all critical-tracking coursework
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs, with a minimum grade of C.
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking course, excluding labs, with a minimum grade of C.
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs, with a minimum grade of C.
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete remaining critical-tracking courses, including labs, with a minimum grade of C.
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**)	
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3-4
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	

State Core Gen Ed Composition (p. 23); Writing Requirement; with Diversity or International		3
Elective		1
	Credits	13-15
Semester Two		
Select one:		4
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	
Advisor-approved alternative (**Critical Tracking**)		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
State Core Gen Ed Humanities with Diversity or International (p. 23)		3
Gen Ed Physical Sciences		3
	Credits	17
Semester Three		
AOM 2520	Global Sustainable Energy: Past, Present and Future	3
Select one:		3-4
AEB 2014	Economic Issues, Food and You	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
Select one:		4
PHY 2004	Applied Physics 1	
& 2004L	and Laboratory for Applied Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2020	Introduction to Principles of Physics	
& PHY 2004L	and Laboratory for Applied Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
	Credits	13-14
Semester Four		
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
ENC 2210	Technical Writing (**Critical Tracking**; Gen Ed Composition)	3
Select one:		4
ECO 2023	Principles of Microeconomics [1]	
Approved electives		
Approved elective		3
	Credits	13
Semester Five		
AEB 3300	Agricultural and Food Marketing	3-4
or MAR 3023	or Principles of Marketing	
AEB 3133	Principles of Agribusiness Management	3-4
or MAN 3025	or Principles of Management	
AOM 3220	Agricultural Construction and Maintenance	3
AOM 3333	Pesticide Application Techniques	3
Approved elective		3
	Credits	15-17
Summer After Semester Five		
AOM 3734	Irrigation Principles and Practices in Florida	3
	Credits	3
Semester Six		
ALS 3133	Agricultural and Environmental Quality	3
or AOM 4521	or Introduction to Biofuels	
AOM 4314C	Power and Machinery Management	3
SWS 3022	Introduction to Soils in the Environment	3
Approved electives		6
	Credits	15
Semester Seven		
Select one business law, ethics, or human resources course:		3-4
AEB 4085	Agricultural Risk Management and the Law	
AEB 4123	Agricultural and Natural Resource Law	
AEB 4126	Agricultural and Natural Resource Ethics	
BUL 4310	The Legal Environment of Business	
AOM 4642	Environmental Systems for Agricultural Structures	3

AOM 4643	Environmental Hydrology: Principles and Issues	3
AOM 4933	Professional Practices in Agricultural Operations Management	1
Approved electives		6
	Credits	16-17
Semester Eight		
AOM 4434	Precision Agriculture	3
AOM 4444C	Electrical Power and Instrumentation for Agricultural Operations Management	3
AOM 4455	Agricultural Operations and Systems	3
AOM 4461	Sustainable Agricultural Systems	3
Approved elective		3
	Credits	15
	Total Credits	120

[1] Needed if ECO 2013 was taken.

Academic Learning Compact

The agricultural operations management curriculum integrates business and technical knowledge of agricultural operations. Knowledge is developed through formal courses, laboratory experimentation and individual experience. Students will learn to incorporate technical agricultural skills with modern business techniques and to communicate these results effectively in an appropriate presentation style.

Before Graduating Students Must

- Pass the agricultural operations management competency exam, given in three parts. One part will be given in each of the following required courses:

Code	Title	Credits
AOM 4455	Agricultural Operations and Systems	3
or AOM 3734	Irrigation Principles and Practices in Florida	
AOM 4314C	Power and Machinery Management	3
or AOM 3734	Irrigation Principles and Practices in Florida	
AOM 4642	Environmental Systems for Agricultural Structures	3
or AOM 4434	Precision Agriculture	

- Achieve satisfactory portfolio assessment in AOM 3073.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental concepts, skills and processes in agricultural operations management.
2. Apply fundamental concepts, skills and processes in agricultural operations management.

Critical Thinking

3. Critically evaluate information or data in agricultural operations management.
4. Solve problems in agricultural operations management.

Communication

5. Communicate effectively in written form in a manner appropriate in agricultural operations management.
6. Communicate effectively orally in a manner appropriate in agricultural operations management.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I
AEC 3033C					I	
AOM 2520	I		I		A	R
AOM 3220	I	I	I			
AOM 3734	R	R	R	I		

AOM 4314	R	R	R	R	
AOM 4455	A	A	A	A	A

Assessment Types

- Course modules
- Presentations
- Exams
- Final grades

Animal Sciences

Animal Sciences graduates work with the science and business of producing domestic livestock species or animal-related products. They may also pursue veterinary studies for future work with companion animals, livestock, or other species. Animal Sciences students study biotechnology, reproduction, genetics, nutrition, physiology, growth, behavior, management, and food processing.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Animal Biology (p. 60) | Equine (p. 64) | Food Animal (p. 67)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Animal Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

By choosing appropriate electives, students can earn a minor or a dual major in agribusiness management, extension education or agricultural operations management while completing the degree requirements for the equine or food animal specialization.

Related Animal Sciences Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Academic Learning Compact

Animal sciences majors receive a broad education in the healthy production of animals and animal products. Students' knowledge will be developed through formal courses, laboratories and field trips and will be applied in internships, team projects and presentations. Students will develop the ability to apply conceptual knowledge to solve problems in animal production and to make management decisions.

Before Graduating Students Must

- Pass the animal sciences competency exam, given in three parts. One part will be given in each of these required courses:

Code	Title	Credits
ANS 3006	Introduction to Animal Science	3
ANS 3043	Growth and Development of Farm Animals	3
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	4

- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and explain fundamental concepts, skills and processes in animal sciences.
2. Apply fundamental concepts, skills and processes in animal sciences.

Critical Thinking

3. Critically evaluate information (or data) in animal sciences.
4. Solve problems in animal sciences.

Communication

5. Effectively communicate in written form in a manner appropriate in animal sciences.
6. Effectively communicate orally in a manner appropriate in animal sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
ANS 3006	I	I			R	
ANS 3043	R	R	I	R	R	
ANS 3319C	R	R	I	I, R	R	
ANS 4931	R	R	R	R	R	R
Academic Assessment Exam	A	A	A	A		

Assessment Types

- Grades
- Academic assessment exam
  - Students in the equine specialization must complete a case study in ANS 4234
  - Students in the food animal specialization must complete an economic assessment plan in ANS 3613L

Animal Sciences | Animal Biology

Animal Sciences graduates work with the science and business of producing domestic livestock species or animal-related products. They may also pursue veterinary studies for future work with companion animals, livestock, or other species. Animal Sciences students study biotechnology, reproduction, genetics, nutrition, physiology, growth, behavior, management, and food processing.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Animal Biology (p. 60) | Equine (p. 64) | Food Animal (p. 67)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Animal Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

By choosing appropriate electives, students can earn a minor or a dual major in agribusiness management, extension education or agricultural operations management while completing the degree requirements for the equine or food animal specialization.

Animal Biology

This specialization is for students who wish to pursue professional or graduate programs. Students who plan to apply to the UF College of Veterinary Medicine in the equine, food animal or mixed-practice tracks are encouraged to select electives from the animal sciences programs.

Related Animal Sciences Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=010901&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses, excluding labs: BSC 2010 and BSC 2010L, BSC 2011 and BSC 2011L, CHM 2045 and CHM 2045L, CHM 2046 and CHM 2046L, MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking course, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement)	3
Elective		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	13
Semester Two		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
ENC 1102	Argument and Persuasion (Gen Ed Composition)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
ECO 2013	Principles of Macroeconomics (State Core Gen Ed Social and Behavioral Sciences (p. 23))	4
	Credits	17
Semester Three		
AEC 3033C or ENC 2210	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement) or Technical Writing	3
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
Electives		9
	Credits	16

Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Gen Ed Social and Behavioral Sciences with International		3
Electives		4
	Credits	15
Semester Five		
ANS 3006 & 3006L	Introduction to Animal Science and Introduction to Animal Science Laboratory	4
ANS 3440	Principles of Animal Nutrition	4
CHM 2210	Organic Chemistry 1	3
Elective		3
	Credits	14
Semester Six		
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	4
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
Approved elective		3
Elective		3
	Credits	15
Semester Seven		
ANS 3043	Growth and Development of Farm Animals	3
BCH 3025 or BCH 4024	Fundamentals of Biochemistry [1] or Introduction to Biochemistry and Molecular Biology	4
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Approved elective		3
Elective		3
	Credits	16
Semester Eight		
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	4
Approved elective		2
Electives		8
	Credits	14
	Total Credits	120

[1] BCH 3025 does not meet Veterinary, Medical, or Dental School requirements.

Approved Electives

Students must take a minimum of 8 credits of ANS courses in addition to the ANS courses listed in the model semester plan; 4 credits each of lecture and laboratory courses.

Code	Title	Credits
Lecture		
ANS 2002	The Meat We Eat	3
ANS 3008	Livestock Behavior and Welfare	3
ANS 2615C	Meat Selection and Grading	2
ANS 3251	Biology and Management of Dairy Cattle	2
Select one:		3
ANS 3384C	Genetics of Domestic Animals	
AGR 3303	Genetics	
PCB 3063	Genetics	
ANS 3404C	Food Animal Nutrition and Feeding	3
ANS 3405	Equine Nutrition and Feeding Management	2
ANS 3934	Careers in the Livestock Industry	2
ANS 4243	Beef Cow-Calf Management	5
ANS 4245C	Beef Background and Feedlot Management	2
ANS 4382	Equine Genetics	2
ANS 4701	Physiology of the Mammary Gland and Lactation	2

ANS 4931	Senior Seminar	1
ANS 4318C	Equine Reproductive Management	3
ANS 4623C	Pork Production	3
Laboratory		
ANS 3079L	Relationship of Form to Function in Horses	2
ANS 3217C	Equine Health Management	2
ANS 3239L	Techniques in Equine Science	2
ANS 3246L	Beef Production Practicum	2
ANS 3250L	Dairy Cattle Practicum	2
ANS 3613L	Livestock and Meat Evaluation	2
ANS 3634C	Meats	3
ANS 4212L	Techniques in Farrier Science	1-2
ANS 4218L	Horse Psychology and Training	3
ANS 4241L	Intermediate Horse Training	2
ANS 4231	Practicum in Horse Management and Training Technique	1
ANS 4604C	Live Animal Evaluation	2
ANS 4635C	Meat Processing	3

Academic Learning Compact

Animal sciences majors receive a broad education in the healthy production of animals and animal products. Students' knowledge will be developed through formal courses, laboratories and field trips and will be applied in internships, team projects and presentations. Students will develop the ability to apply conceptual knowledge to solve problems in animal production and to make management decisions.

Before Graduating Students Must

- Pass the animal sciences competency exam, given in three parts. One part will be given in each of these required courses:

Code	Title	Credits
ANS 3006	Introduction to Animal Science	3
ANS 3043	Growth and Development of Farm Animals	3
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	4

- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and explain fundamental concepts, skills and processes in animal sciences.
2. Apply fundamental concepts, skills and processes in animal sciences.

Critical Thinking

3. Critically evaluate information (or data) in animal sciences.
4. Solve problems in animal sciences.

Communication

5. Effectively communicate in written form in a manner appropriate in animal sciences.
6. Effectively communicate orally in a manner appropriate in animal sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
ANS 3006	I	I			R	
ANS 3043	R	R	I	R	R	
ANS 3319C	R	R	I	I, R	R	
ANS 4931	R	R	R	R	R	R

Academic Assessment Exam	A	A	A	A

Assessment Types

- Grades
- Academic assessment exam
  - Students in the equine specialization must complete a case study in ANS 4234
  - Students in the food animal specialization must complete an economic assessment plan in ANS 3613L

Animal Sciences | Equine

Animal Sciences graduates work with the science and business of producing domestic livestock species or animal-related products. They may also pursue veterinary studies for future work with companion animals, livestock, or other species. Animal Sciences students study biotechnology, reproduction, genetics, nutrition, physiology, growth, behavior, management, and food processing.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Animal Biology (p. 60) | Equine (p. 64) | Food Animal (p. 67)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Animal Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

By choosing appropriate electives, students can earn a minor or a dual major in agribusiness management, extension education or agricultural operations management while completing the degree requirements for the equine or food animal specialization.

Equine

Career preparation can be strengthened through electives.

Related Animal Sciences Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=010901&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 6 critical-tracking courses, excluding labs: BSC 2010 and BSC 2010L, BSC 2011 and BSC 2011L, CHM 2045 and CHM 2045L, MAC 1147, STA 2023, and AEB 2014 or ECO 2013 or ECO 2023
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking course, including labs

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
MAC 1147	Precalculus Algebra and Trigonometry (State Core Gen Ed Mathematics (p. 23))	4
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement)	3
State Core Gen Ed Humanities with Diversity (p. 23)		3
	Credits	14
Semester Two		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
ENC 1102	Argument and Persuasion (Gen Ed Composition)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
	Credits	17
Semester Three		
Select one:		3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	
ENC 2210	Technical Writing	
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	4
Electives		8
	Credits	15
Semester Four		
MCB 2000 & 2000L	Microbiology and Microbiology Laboratory (Gen Ed Biological Sciences)	4
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Electives		5
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
AEB 3133	Principles of Agribusiness Management	3
ANS 3006 & 3006L	Introduction to Animal Science and Introduction to Animal Science Laboratory	4
ANS 3217C	Equine Health Management	2
ANS 3440	Principles of Animal Nutrition	4
ANS 3934	Careers in the Livestock Industry	2
	Credits	15

Semester Six		
AGR 4231C	Forage Science and Range Management	4
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	4
ANS 3384C	Genetics of Domestic Animals	3
Approved Food and Resource Economics elective		3
	Credits	14
Summer After Semester Six		
ANS 4941	Full-Time Practical Work Experience in Animal Science	3-8
	Credits	3-8
Semester Seven		
ANS 3043	Growth and Development of Farm Animals	3
ANS 3405	Equine Nutrition and Feeding Management	2
Approved Equine Practicum elective		2
Approved Food and Resource Economics elective		3
Electives		4
	Credits	14
Semester Eight		
ANS 3079L	Relationship of Form to Function in Horses	2
ANS 4234	Horse Enterprise Management	2
ANS 4931	Senior Seminar	1
Approved Equine Practicum elective		1
Electives		7
	Credits	13
	Total Credits	120

Approved Electives

Approved Equine Practicum Electives

Code	Title	Credits
ANS 3239L	Techniques in Equine Science	2
ANS 4212L	Techniques in Farrier Science	1-2
ANS 4218L	Horse Psychology and Training	3
ANS 4231	Practicum in Horse Management and Training Technique	1
ANS 4241L	Intermediate Horse Training	2
ANS 4605	Animal and Products Evaluation	1

Approved Food and Resource Economics Electives

Code	Title	Credits
AEB 3122	Financial Planning for Agribusiness	3
AEB 3300	Agricultural and Food Marketing	3
AEB 3341	Selling Strategically	3
AEB 3450	Introduction to Natural Resource and Environmental Economics	3
AEB 4085	Agricultural Risk Management and the Law	3
AEB 4123	Agricultural and Natural Resource Law	3
AEB 4126	Agricultural and Natural Resource Ethics	3
AEB 4138	Advanced Agribusiness Management	3
AEB 4242	International Trade Policy in Agriculture	3
AEB 4342	Agribusiness and Food Marketing Management	3
AEB 4343	International Agribusiness Marketing	3
AEB 4424	Human Resources Management in Agribusiness	3

Academic Learning Compact

Animal sciences majors receive a broad education in the healthy production of animals and animal products. Students' knowledge will be developed through formal courses, laboratories and field trips and will be applied in internships, team projects and presentations. Students will develop the ability to apply conceptual knowledge to solve problems in animal production and to make management decisions.

Before Graduating Students Must

- Pass the animal sciences competency exam, given in three parts. One part will be given in each of these required courses:

Code	Title	Credits
ANS 3006	Introduction to Animal Science	3
ANS 3043	Growth and Development of Farm Animals	3
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	4

- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and explain fundamental concepts, skills and processes in animal sciences.
2. Apply fundamental concepts, skills and processes in animal sciences.

Critical Thinking

3. Critically evaluate information (or data) in animal sciences.
4. Solve problems in animal sciences.

Communication

5. Effectively communicate in written form in a manner appropriate in animal sciences.
6. Effectively communicate orally in a manner appropriate in animal sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
ANS 3006	I	I			R	
ANS 3043	R	R	I	R	R	
ANS 3319C	R	R	I	I, R	R	
ANS 4931	R	R	R	R	R	R
Academic Assessment Exam	A	A	A	A		

Assessment Types

- Grades
- Academic assessment exam
  - Students in the equine specialization must complete a case study in ANS 4234
  - Students in the food animal specialization must complete an economic assessment plan in ANS 3613L

Animal Sciences | Food Animal

Animal Sciences graduates work with the science and business of producing domestic livestock species or animal-related products. They may also pursue veterinary studies for future work with companion animals, livestock, or other species. Animal Sciences students study biotechnology, reproduction, genetics, nutrition, physiology, growth, behavior, management, and food processing.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Animal Biology (p. 60) | Equine (p. 64) | Food Animal (p. 67)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Animal Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

By choosing appropriate electives, students can earn a minor or a dual major in agribusiness management, extension education or agricultural operations management while completing the degree requirements for the equine or food animal specialization.

Food Animal

Through proper selection of electives, students may emphasize beef, dairy or meat science. Career preparation can be strengthened through electives.

Related Animal Sciences Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=010901&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 6 critical-tracking courses, excluding labs: BSC 2010 and BSC 2010L, BSC 2011 and BSC 2011L, CHM 2045 and CHM 2045L, MAC 1147, STA 2023, and AEB 2014 or ECO 2013 or ECO 2023
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking course, including labs

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4

State Core Gen Ed Humanities with Diversity (p. 23)		3
	Credits	14
Semester Two		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
ENC 1102	Argument and Persuasion (Gen Ed Composition)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
	Credits	17
Semester Three		
Select one:		3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	
ENC 2210	Technical Writing	
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
Electives		8
	Credits	15
Semester Four		
MCB 2000 & 2000L	Microbiology and Microbiology Laboratory (Gen Ed Biological Sciences)	4
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Elective		3
Gen Ed Social and Behavioral Sciences		3
	Credits	13
Semester Five		
AEB 3133	Principles of Agribusiness Management	3
ANS 3006 & 3006L	Introduction to Animal Science and Introduction to Animal Science Laboratory	4
ANS 3440	Principles of Animal Nutrition	4
ANS 3634C	Meats	3
ANS 3934	Careers in the Livestock Industry	2
	Credits	16
Semester Six		
AGR 4231C	Forage Science and Range Management	4
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	4
ANS 3384C	Genetics of Domestic Animals	3
ANS 3404C	Food Animal Nutrition and Feeding	3
ANS 3613L	Livestock and Meat Evaluation	2
	Credits	16
Summer After Semester Six		
ANS 4941	Full-Time Practical Work Experience in Animal Science	3-8
	Credits	3-8
Semester Seven		
ANS 3043	Growth and Development of Farm Animals	3
Approved Food and Resource Economics elective		3
Approved Electives		6
	Credits	12
Semester Eight		
ANS 4931	Senior Seminar	1
Approved Food and Resource Economics elective		3
Approved Electives		6
Electives		4
	Credits	14
	Total Credits	120

Approved Electives

Code	Title	Credits
ANS 2615C	Meat Selection and Grading	2
ANS 3008	Livestock Behavior and Welfare	3
ANS 3239L	Techniques in Equine Science	2
ANS 3246L	Beef Production Practicum	2
ANS 3250L	Dairy Cattle Practicum	2
ANS 3251	Biology and Management of Dairy Cattle	2
ANS 4243	Beef Cow-Calf Management	5
ANS 4245C	Beef Background and Feedlot Management	2
ANS 4604C	Live Animal Evaluation	2
ANS 4605	Animal and Products Evaluation	1
ANS 4623C	Pork Production	3
ANS 4635C	Meat Processing	3
ANS 4701	Physiology of the Mammary Gland and Lactation	2
ANS 4905	Problems in Animal Science	1-3
FOS 3042	Introductory Food Science	3
FOS 4202	Food Safety and Sanitation	2
FOS 4222	Food Microbiology	3-4
FOS 4222L	Food Microbiology Laboratory	2
FOS 4310L	Experimental Foods Laboratory	1
FOS 4311	Food Chemistry	3
FOS 4311L	Food Chemistry Laboratory	1
FOS 4427C	Principles of Food Processing	4
FOS 4722C	Quality Control in Food Systems	3
FOS 4731	Government Regulations and the Food Industry	2

Approved Food and Resource Economics Electives

Code	Title	Credits
AEB 3122	Financial Planning for Agribusiness	3
AEB 3300	Agricultural and Food Marketing	3
AEB 3315	Futures Markets and Risk Management in Agriculture	3
AEB 3341	Selling Strategically	3
AEB 3450	Introduction to Natural Resource and Environmental Economics	3
AEB 4085	Agricultural Risk Management and the Law	3
AEB 4123	Agricultural and Natural Resource Law	3
AEB 4126	Agricultural and Natural Resource Ethics	3
AEB 4138	Advanced Agribusiness Management	3
AEB 4242	International Trade Policy in Agriculture	3
AEB 4309	Food Wholesaling and Retail Marketing	3
AEB 4342	Agribusiness and Food Marketing Management	3
AEB 4343	International Agribusiness Marketing	3
AEB 4424	Human Resources Management in Agribusiness	3

Academic Learning Compact

Animal sciences majors receive a broad education in the healthy production of animals and animal products. Students' knowledge will be developed through formal courses, laboratories and field trips and will be applied in internships, team projects and presentations. Students will develop the ability to apply conceptual knowledge to solve problems in animal production and to make management decisions.

Before Graduating Students Must

- Pass the animal sciences competency exam, given in three parts. One part will be given in each of these required courses:

Code	Title	Credits
ANS 3006	Introduction to Animal Science	3
ANS 3043	Growth and Development of Farm Animals	3
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	4

- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and explain fundamental concepts, skills and processes in animal sciences.
2. Apply fundamental concepts, skills and processes in animal sciences.

Critical Thinking

3. Critically evaluate information (or data) in animal sciences.
4. Solve problems in animal sciences.

Communication

5. Effectively communicate in written form in a manner appropriate in animal sciences.
6. Effectively communicate orally in a manner appropriate in animal sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
ANS 3006	I	I			R	
ANS 3043	R	R	I	R	R	
ANS 3319C	R	R	I	I, R	R	
ANS 4931	R	R	R	R	R	R
Academic Assessment Exam	A	A	A	A		

Assessment Types

- Grades
- Academic assessment exam
  - Students in the equine specialization must complete a case study in ANS 4234
  - Students in the food animal specialization must complete an economic assessment plan in ANS 3613L

Bioinformatics Minor

This minor provides solid exposure to bioinformatics with an emphasis on microbes. With the avalanche of genomic information available, bioinformatics skills are necessary to mine and analyze genomic data.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15-16 | Completed with minimum grades of C
- **Contact:** Email (vcrecy@ufl.edu) | Email (bryank@ufl.edu)
- **Related Microbiology and Cell Science Programs**

This minor is open to all students who have a science background and who meet course prerequisites.

It is particularly appropriate for students majoring in biology, mathematics, microbiology and cell science, statistics and zoology, and for students who are interested in professional programs in dentistry, medicine and pharmacy.

Microbiology and cell science majors should meet with their academic advisors before applying to this minor to plan a program of study. No more than three credits of the required courses below and 3-4 credits of the electives below can count toward both the major and the minor.

There are 12 required credits, consisting of three courses and a capstone independent study course, and one 3 or 4 credit elective.

Required Courses

Code	Title	Credits
Select one:		3
BSC 2891	Python Programming for Biology (spring only)	
CAP 5510	Bioinformatics (fall only)	
BSC 4434C	Introduction to Bioinformatics	3
BSC 4913	Independent Research in Bioinformatics	3
MCB 4320C	The Microbiome (spring only)	3
Approved elective		3-4
Total Credits		15-16

Approved Electives

Code	Title	Credits
BSC 4914	Advanced Independent Research in Bioinformatics	3
HOS 3305	Introduction to Plant Molecular Biology (fall only)	3
MAP 4484	Modeling in Mathematical Biology (spring only)	3
PCB 3063	Genetics	4
PCB 4674	Evolution (fall and spring only)	4
PCB 5065	Advanced Genetics (fall only)	4

Related Microbiology and Cell Science Programs

- Bachelor of Science in Microbiology and Cell Science, CALS (p. 229)
- Bachelor of Science in Microbiology and Cell Science, CLAS (p. 863)
- Bachelor of Science in Microbiology and Cell Science, UF Online (p. 224)

Biology | CALS

This program provides a broad, general overview of the structure, function, growth, origin, evolution, and distribution of living organisms. Biology students take courses in biology, chemistry, physics, calculus, and statistics. The major is flexible and combines the faculty and resources of two UF colleges to prepare students for career success.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Applied Biology (p. 74) | Biotechnology (p. 80) | Natural Science (p. 86) | Preprofessional (p. 91)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Biology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The biology major develops fundamental knowledge of animals, plants and microorganisms. The four specializations offered by the College of Agricultural and Life Sciences are tailored to meet the needs of preprofessional students, those preparing for graduate studies in biology or specialized areas such as bioinformatics, ecology, genetics and molecular biology and those seeking a career in biotechnology, education, natural resource management and environmental or biotechnology law.

Coursework for the Major

College of Agricultural and Life Sciences (CALS) students in the biology major choose one of four specializations: applied biology, biotechnology, natural science or preprofessional biology. These specializations require significant introductory coursework and credits in general biology, calculus and/or statistics, general chemistry, organic chemistry and physics. Students who are uncertain about which specialization to choose should consult a biology advisor for information and guidance on curriculum planning. Students can individualize their curriculum through approved specialization electives in the life sciences.

Applied Biology

For students interested in learning how fundamental biology is applied to solving problems. This specialization provides exposure to the major issues facing sustainability of human populations and natural resources.

Biotechnology

Prepares students for careers where knowledge of molecular biology and genetic engineering are important. Students will have the opportunity to learn various techniques and scientific procedures in molecular biology, virology, bioengineering, cell and tissue culture and bioinformatics.

Natural Science

For students interested in descriptive and interpretive biology, with an emphasis on field biology. The specialization provides exposure to the major forms of flora and fauna, and integrates some of the major elements that influence flora and fauna, namely soil/water relations and human activities.

Preprofessional

For students preparing for admission to medical, dental, optometry, veterinary or other professional schools.

Relevant Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified secondary school biology teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a biology advisor or the UFTeach advisor. UFTeach students complete the UFTeach minor in science teaching with their B.S. in biology and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Bioinformatics

Bioinformatics skills are valuable for students who may seek careers which will necessitate the analysis of genomic data. This minor provides students the opportunity to learn programming skills, mine genomic data, and participate in independent research.

Research

All biology majors are encouraged to participate in research. Research experience is valuable on many levels: It diversifies the college experience; teaches how scientists apply the knowledge gained in the classroom to real world questions; provides the opportunity to work with and get to know researchers who are the best in their field; enables participation in cutting edge scientific questions and techniques; enhances the student's resume/CV when applying to graduate or professional school; and finally, it is essential to help the student determine if science is an appropriate career choice.
More Info (http://major.biology.ufl.edu/do-research)

CALS biology majors may participate in research for course credit as a scholar (e.g., University Scholar, HHMI Science for Life Scholar), as a volunteer, or, in rare cases, as a paid research assistant.

Related Biology Programs

- Bachelor of Arts or Bachelor of Science in Biology, CLAS (p. 576)
- Bachelor of Arts in Biology, UF Online (p. 570)

Academic Learning Compact

Biology is the study of the many diverse forms, processes and systems of life. These studies range across all levels of the biological hierarchy, from the simplest to the most complex life forms, across all environments on the earth and across recent and evolutionary time that interconnects ancestors to their descendants.

To understand this vast diversity, the field of biology correspondingly relies on integrative and comparative approaches for the resolution of the general processes, principles and unifying themes that govern living systems. Biology is therefore very interdisciplinary and biologists rely on knowledge from the physical sciences and mathematics, as well as from across the disciplines and subdisciplines of biology for advances and breakthroughs.

The biology major is administered jointly by the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences.

Before Graduating Students Must

- Achieve a passing score for all content subsections of the Major Field Test for Biology. Content subscore areas are molecular biology and genetics, organismal biology, evolution, ecology and population biology.
- Achieve a passing score on the analytical skills assessment indicator of the Major Field Test for Biology.
- Achieve a passing score on the bioethics module quiz in BSC 4936. The content of the module and quiz are reviewed and approved by a faculty committee.
- Achieve a passing score on the scientific literacy paper assignment given in BSC 4936. This paper is graded using a faculty-developed rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map for All Specializations except CALS Biotechnology

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		R
ANS 3319C or BOT 3503 or HOS 4304 or PCB 3713C or PCB 4723C	R	R		R
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Curriculum Map for CALS Biotechnology

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Biology | Applied Biology

This program provides a broad, general overview of the structure, function, growth, origin, evolution, and distribution of living organisms. Biology students take courses in biology, chemistry, physics, calculus, and statistics. The major is flexible and combines the faculty and resources of two UF colleges to prepare students for career success.

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- **Specializations:** Applied Biology (p. 74) | Biotechnology (p. 80) | Natural Science (p. 86) | Preprofessional (p. 91)
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- **Additional Information**
- **Related Biology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The biology major develops fundamental knowledge of animals, plants and microorganisms. The four specializations offered by the College of Agricultural and Life Sciences are tailored to meet the needs of preprofessional students, those preparing for graduate studies in biology or specialized areas such as bioinformatics, ecology, genetics and molecular biology and those seeking a career in biotechnology, education, natural resource management and environmental or biotechnology law.

Coursework for the Major

College of Agricultural and Life Sciences (CALS) students in the biology major choose one of four specializations: applied biology, biotechnology, natural science or preprofessional biology. These specializations require significant introductory coursework and credits in general biology, calculus and/or statistics, general chemistry, organic chemistry and physics. Students who are uncertain about which specialization to choose should consult a biology advisor for information and guidance on curriculum planning. Students can individualize their curriculum through approved specialization electives in the life sciences.

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For students interested in learning how fundamental biology is applied to solving problems. This specialization provides exposure to the major issues facing sustainability of human populations and natural resources.

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Related Biology Programs

- Bachelor of Arts or Bachelor of Science in Biology, CLAS (p. 576)
- Bachelor of Arts in Biology, UF Online (p. 570)

Applied Biology

For students who are interested in learning how fundamental biology is applied to solving problems. This specialization provides exposure to the major issues facing sustainability of human populations and natural resources. This specialization prepares students for graduate study in the biological sciences.

Code	Title	Credits
Required Foundation Coursework		
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
Select one:		4
BSC 2011	Integrated Principles of Biology 2	
& 2011L	and Integrated Principles of Biology Laboratory 2	
BOT 2011C	Plant Diversity	
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	
Select one:		4-8
CHM 2200	Fundamentals of Organic Chemistry	
& 2200L	and Fundamentals of Organic Chemistry Laboratory	
CHM 2210	Organic Chemistry 1	
& CHM 2211	and Organic Chemistry 2	
& CHM 2211L	and Organic Chemistry Laboratory	
MAC 2311	Analytic Geometry and Calculus 1	4
STA 2023	Introduction to Statistics 1	3
or MAC 2312	Analytic Geometry and Calculus 2	
Select one option:		8-10
Option A		
PHY 2004	Applied Physics 1	
& 2004L	and Laboratory for Applied Physics 1	
PHY 2005	Applied Physics 2	
& 2005L	and Laboratory for Applied Physics 2	
Option B		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option C		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Required Core Coursework		
AGR 3303	Genetics	3
or PCB 3063	Genetics	
Select one:		3-4
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	
BOT 3503	Physiology and Molecular Biology of Plants	
HOS 4304	Horticultural Physiology	
MCB 3020	Basic Biology of Microorganisms	4
& 3020L	and Laboratory for Basic Biology of Microorganisms	
BCH 3025	Fundamentals of Biochemistry	4
or BCH 4024	Introduction to Biochemistry and Molecular Biology	
BSC 4936	Critical Analysis of Biological Research	2
Approved applied biology courses (minimum)		21
Total Credits		72-79

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260101&track=01) may be used for transfer students.

Semester 1

- Complete CHM 2045/CHM 2045L or MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete BSC 2010/BSC 2010L and CHM 2046/CHM 2046L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23)		3
Elective		2
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	

CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	14-15
Semester Three		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
Select one:		3-4
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	
MAC 2312	Analytic Geometry and Calculus 2 (Gen Ed Mathematics)	
Gen Ed Composition; Writing Requirement		3
Electives		5
	Credits	15-16
Semester Four		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
Select one:		4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**)	
BOT 2011C	Plant Diversity (**Critical Tracking**)	
Select one:		3-4
CHM 2210	Organic Chemistry 1	
CHM 2200 & 2200L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	
Applied biology course		3
Elective		3
	Credits	16-17
Semester Five		
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory [1]	5
Select one:		3-4
PHY 2004	Applied Physics 1	
PHY 2053	Physics 1	
PHY 2048	Physics with Calculus 1	
Select one:		1
PHY 2004L	Laboratory for Applied Physics 1	
PHY 2053L	Laboratory for Physics 1	
PHY 2048L	Laboratory for Physics with Calculus 1	
Applied biology courses		6
	Credits	15-16
Semester Six		
BCH 3025 or BCH 4024	Fundamentals of Biochemistry or Introduction to Biochemistry and Molecular Biology	4
Select one:		3-4
PHY 2005	Applied Physics 2	
PHY 2054	Physics 2	
PHY 2049	Physics with Calculus 2	
Select one:		1
PHY 2005L	Laboratory for Applied Physics 2	
PHY 2054L	Laboratory for Physics 2	
PHY 2049L	Laboratory for Physics with Calculus 2	
Applied biology course		3
Elective		3
	Credits	14-15
Semester Seven		
AGR 3303 or PCB 3063	Genetics or Genetics	3-4

MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	4
Applied biology courses		6
Elective		3
	Credits	16-17
Semester Eight		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
Select one:		3-4
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	
BOT 3503	Physiology and Molecular Biology of Plants	
HOS 4304	Horticultural Physiology	
BSC 4936	Critical Analysis of Biological Research	2
Applied biology course		3
Electives		4
	Credits	15-16
	Total Credits	120

[1] Not required if CHM 2200 and CHM 2200L were taken.

Academic Learning Compact

Biology is the study of the many diverse forms, processes and systems of life. These studies range across all levels of the biological hierarchy, from the simplest to the most complex life forms, across all environments on the earth and across recent and evolutionary time that interconnects ancestors to their descendants.

To understand this vast diversity, the field of biology correspondingly relies on integrative and comparative approaches for the resolution of the general processes, principles and unifying themes that govern living systems. Biology is therefore very interdisciplinary and biologists rely on knowledge from the physical sciences and mathematics, as well as from across the disciplines and subdisciplines of biology for advances and breakthroughs.

The biology major is administered jointly by the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences.

Before Graduating Students Must

- Achieve a passing score for all content subsections of the Major Field Test for Biology. Content subscore areas are molecular biology and genetics, organismal biology, evolution, ecology and population biology.
- Achieve a passing score on the analytical skills assessment indicator of the Major Field Test for Biology.
- Achieve a passing score on the bioethics module quiz in BSC 4936. The content of the module and quiz are reviewed and approved by a faculty committee.
- Achieve a passing score on the scientific literacy paper assignment given in BSC 4936. This paper is graded using a faculty-developed rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map for All Specializations except CALS Biotechnology

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		R

ANS 3319C or BOT 3503 or HOS 4304 or PCB 3713C or PCB 4723C	R	R		R
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Curriculum Map for CALS Biotechnology

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Biology | Biotechnology

This program provides a broad, general overview of the structure, function, growth, origin, evolution, and distribution of living organisms. Biology students take courses in biology, chemistry, physics, calculus, and statistics. The major is flexible and combines the faculty and resources of two UF colleges to prepare students for career success.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Applied Biology (p. 74) | Biotechnology (p. 80) | Natural Science (p. 86) | Preprofessional (p. 91)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Biology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The biology major develops fundamental knowledge of animals, plants and microorganisms. The four specializations offered by the College of Agricultural and Life Sciences are tailored to meet the needs of preprofessional students, those preparing for graduate studies in biology or specialized areas such as bioinformatics, ecology, genetics and molecular biology and those seeking a career in biotechnology, education, natural resource management and environmental or biotechnology law.

Coursework for the Major

College of Agricultural and Life Sciences (CALS) students in the biology major choose one of four specializations: applied biology, biotechnology, natural science or preprofessional biology. These specializations require significant introductory coursework and credits in general biology, calculus

and/or statistics, general chemistry, organic chemistry and physics. Students who are uncertain about which specialization to choose should consult a biology advisor for information and guidance on curriculum planning. Students can individualize their curriculum through approved specialization electives in the life sciences.

Applied Biology

For students interested in learning how fundamental biology is applied to solving problems. This specialization provides exposure to the major issues facing sustainability of human populations and natural resources.

Biotechnology

Prepares students for careers where knowledge of molecular biology and genetic engineering are important. Students will have the opportunity to learn various techniques and scientific procedures in molecular biology, virology, bioengineering, cell and tissue culture and bioinformatics.

Natural Science

For students interested in descriptive and interpretive biology, with an emphasis on field biology. The specialization provides exposure to the major forms of flora and fauna, and integrates some of the major elements that influence flora and fauna, namely soil/water relations and human activities.

Preprofessional

For students preparing for admission to medical, dental, optometry, veterinary or other professional schools.

Relevant Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified secondary school biology teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a biology advisor or the UFTeach advisor. UFTeach students complete the UFTeach minor in science teaching with their B.S. in biology and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Bioinformatics

Bioinformatics skills are valuable for students who may seek careers which will necessitate the analysis of genomic data. This minor provides students the opportunity to learn programming skills, mine genomic data, and participate in independent research.

Research

All biology majors are encouraged to participate in research. Research experience is valuable on many levels: It diversifies the college experience; teaches how scientists apply the knowledge gained in the classroom to real world questions; provides the opportunity to work with and get to know researchers who are the best in their field; enables participation in cutting edge scientific questions and techniques; enhances the student's resume/CV when applying to graduate or professional school; and finally, it is essential to help the student determine if science is an appropriate career choice.
More Info (http://major.biology.ufl.edu/do-research)

CALS biology majors may participate in research for course credit as a scholar (e.g., University Scholar, HHMI Science for Life Scholar), as a volunteer, or, in rare cases, as a paid research assistant.

Related Biology Programs

- Bachelor of Arts or Bachelor of Science in Biology, CLAS (p. 576)
- Bachelor of Arts in Biology, UF Online (p. 570)

Biotechnology

This specialization prepares students for careers where knowledge of molecular biology and genetic engineering are important. Students will have the opportunity to learn various techniques and scientific procedures in molecular biology, virology, bioengineering, cell and tissue culture, microscopy and bioinformatics. They also will be prepared for graduate study in the biological sciences.

Code	Title	Credits
Required Foundation Coursework		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	4

Select one option:		8-10
Option A		
CHM 2210	Organic Chemistry 1	
CHM 2211	Organic Chemistry 2	
& 2211L	and Organic Chemistry Laboratory	
Option B		
CHM 3217	Organic Chemistry/Biochemistry 1	
CHM 3218	Organic Chemistry/Biochemistry 2	
CHM 2211L	Organic Chemistry Laboratory	
MAC 2311	Analytic Geometry and Calculus 1	4
STA 2023	Introduction to Statistics 1	3
or MAC 2312	Analytic Geometry and Calculus 2	
Select one option:		8-10
Option A		
PHY 2004	Applied Physics 1	
& 2004L	and Laboratory for Applied Physics 1	
PHY 2005	Applied Physics 2	
& 2005L	and Laboratory for Applied Physics 2	
Option B		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option C		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Required Core Coursework		
AGR 3303	Genetics	3
or PCB 3063	Genetics	
MCB 4304	Genetics of Microorganisms	3
or PCB 4522	Molecular Genetics	
MCB 3020	Basic Biology of Microorganisms	4
& 3020L	and Laboratory for Basic Biology of Microorganisms	
PCB 3134	Eukaryotic Cell Structure and Function	3
PCB 4674	Evolution	4
BCH 4024	Introduction to Biochemistry and Molecular Biology [1]	4
CHM 3120	Introduction to Analytical Chemistry	4
& 3120L	and Analytical Chemistry Laboratory	
BSC 4936	Critical Analysis of Biological Research	2
Approved biotechnology courses (minimum)		6
Total Credits		72-76

[1] Not required if CHM 3217 and CHM 3218 are taken.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260101&track=01) may be used for transfer students.

Semester 1

- Complete CHM 2045/CHM 2045L or MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete BSC 2010/BSC 2010L and CHM 2046/CHM 2046L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		2
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	14-15
Semester Three		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
CHM 2210 or CHM 3217	Organic Chemistry 1 or Organic Chemistry/Biochemistry 1	3-4
STA 2023 or MAC 2312	Introduction to Statistics 1 (Gen Ed Mathematics) or Analytic Geometry and Calculus 2	3-4
Gen Ed Composition; Writing Requirement		3

Elective		2
	Credits	15-17
Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2211 or CHM 3218	Organic Chemistry 2 or Organic Chemistry/Biochemistry 2	3-4
CHM 2211L	Organic Chemistry Laboratory	2
Electives		7
	Credits	16-17
Semester Five		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
BCH 4024	Introduction to Biochemistry and Molecular Biology [1]	4
CHM 3120 & 3120L	Introduction to Analytical Chemistry and Analytical Chemistry Laboratory	4
Select one:		3-4
PHY 2004	Applied Physics 1	
PHY 2053	Physics 1	
PHY 2048	Physics with Calculus 1	
Select one:		1
PHY 2004L	Laboratory for Applied Physics 1	
PHY 2053L	Laboratory for Physics 1	
PHY 2048L	Laboratory for Physics with Calculus 1	
	Credits	15-16
Semester Six		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
AGR 3303 or PCB 3063	Genetics or Genetics	3-4
PCB 3134	Eukaryotic Cell Structure and Function	3
Select one:		3-4
PHY 2005	Applied Physics 2	
PHY 2054	Physics 2	
PHY 2049	Physics with Calculus 2	
Select one:		1
PHY 2005L	Laboratory for Applied Physics 2	
PHY 2054L	Laboratory for Physics 2	
PHY 2049L	Laboratory for Physics with Calculus 2	
Elective		2
	Credits	15-17
Semester Seven		
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	4
PCB 4674	Evolution	4
Biotechnology course		3
Electives		4
	Credits	15
Semester Eight		
BSC 4936	Critical Analysis of Biological Research	2
MCB 4304 or PCB 4522	Genetics of Microorganisms or Molecular Genetics	3
Biotechnology course		3
Electives		7
	Credits	15
	Total Credits	120

[1] Not required if CHM 3218 was taken.

Academic Learning Compact

Biology is the study of the many diverse forms, processes and systems of life. These studies range across all levels of the biological hierarchy, from the simplest to the most complex life forms, across all environments on the earth and across recent and evolutionary time that interconnects ancestors to their descendants.

To understand this vast diversity, the field of biology correspondingly relies on integrative and comparative approaches for the resolution of the general processes, principles and unifying themes that govern living systems. Biology is therefore very interdisciplinary and biologists rely on knowledge from the physical sciences and mathematics, as well as from across the disciplines and subdisciplines of biology for advances and breakthroughs.

The biology major is administered jointly by the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences.

Before Graduating Students Must

- Achieve a passing score for all content subsections of the Major Field Test for Biology. Content subscore areas are molecular biology and genetics, organismal biology, evolution, ecology and population biology.
- Achieve a passing score on the analytical skills assessment indicator of the Major Field Test for Biology.
- Achieve a passing score on the bioethics module quiz in BSC 4936. The content of the module and quiz are reviewed and approved by a faculty committee.
- Achieve a passing score on the scientific literacy paper assignment given in BSC 4936. This paper is graded using a faculty-developed rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map for All Specializations except CALS Biotechnology

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Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		R
ANS 3319C or BOT 3503 or HOS 4304 or PCB 3713C or PCB 4723C	R	R		R
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Curriculum Map for CALS Biotechnology

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Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Biology | Natural Science

This program provides a broad, general overview of the structure, function, growth, origin, evolution, and distribution of living organisms. Biology students take courses in biology, chemistry, physics, calculus, and statistics. The major is flexible and combines the faculty and resources of two UF colleges to prepare students for career success.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
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- **Specializations:** Applied Biology (p. 74) | Biotechnology (p. 80) | Natural Science (p. 86) | Preprofessional (p. 91)
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- **Additional Information**
- **Related Biology Programs**

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The biology major develops fundamental knowledge of animals, plants and microorganisms. The four specializations offered by the College of Agricultural and Life Sciences are tailored to meet the needs of preprofessional students, those preparing for graduate studies in biology or specialized areas such as bioinformatics, ecology, genetics and molecular biology and those seeking a career in biotechnology, education, natural resource management and environmental or biotechnology law.

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For students interested in learning how fundamental biology is applied to solving problems. This specialization provides exposure to the major issues facing sustainability of human populations and natural resources.

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Natural Science

For students interested in descriptive and interpretive biology, with an emphasis on field biology. The specialization provides exposure to the major forms of flora and fauna, and integrates some of the major elements that influence flora and fauna, namely soil/water relations and human activities.

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Relevant Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified secondary school biology teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a biology advisor or the UFTeach advisor. UFTeach students complete the UFTeach minor in science teaching with their B.S. in biology and have the coursework and preparation for professional teacher certification in Florida when they graduate.
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More Info (http://major.biology.ufl.edu/do-research)

CALS biology majors may participate in research for course credit as a scholar (e.g., University Scholar, HHMI Science for Life Scholar), as a volunteer, or, in rare cases, as a paid research assistant.

Related Biology Programs

- Bachelor of Arts or Bachelor of Science in Biology, CLAS (p. 576)
- Bachelor of Arts in Biology, UF Online (p. 570)

Natural Science

This specialization is for students interested in descriptive and interpretive biology, with an emphasis on field biology. The specialization provides exposure to the major forms of flora and fauna, and integrates some of the major elements that influence flora and fauna, namely soil/water relations and human activities. This specialization prepares students for graduate study in the biological sciences.

Code	Title	Credits
Required Foundation Coursework		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	4
CHM 2200 & 2200L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	4
MAC 2311	Analytic Geometry and Calculus 1	4
STA 2023	Introduction to Statistics 1	3
or MAC 2312	Analytic Geometry and Calculus 2	
Select one option:		8-10
Option A		
PHY 2004 & PHY 2005L	Applied Physics 1 and Laboratory for Applied Physics 2	
PHY 2005 & 2005L	Applied Physics 2 and Laboratory for Applied Physics 2	
Option B		
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1	
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2	
Option C		
PHY 2048 & 2048L	Physics with Calculus 1 and Laboratory for Physics with Calculus 1	

PHY 2049 & 2049L	Physics with Calculus 2 and Laboratory for Physics with Calculus 2	
Required Core Coursework		
AGR 3303 or PCB 3063	Genetics Genetics	3
PCB 4674	Evolution	4
BSC 4936	Critical Analysis of Biological Research	2
Approved natural science courses (minimum)		21
Total Credits		65-67

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260101&track=01) may be used for transfer students.

Semester 1

- Complete CHM 2045/CHM 2045L or MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete BSC 2010/BSC 2010L and CHM 2046/CHM 2046L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		2

State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	14-15
Semester Three		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
STA 2023 or MAC 2312	Introduction to Statistics 1 (Gen Ed Mathematics) or Analytic Geometry and Calculus 2	3-4
Gen Ed Composition; Writing Requirement		3
Electives		5
	Credits	15-16
Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2200 & 2200L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	4
Electives		8
	Credits	16
Semester Five		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
AGR 3303 or PCB 3063	Genetics or Genetics	3-4
Select one:		3-4
PHY 2004	Applied Physics 1	
PHY 2053	Physics 1	
PHY 2048	Physics with Calculus 1	
Select one:		1
PHY 2004L	Laboratory for Applied Physics 1	
PHY 2053L	Laboratory for Physics 1	
PHY 2048L	Laboratory for Physics with Calculus 1	
Elective		1
Natural science course		3
	Credits	14-16
Semester Six		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
PCB 4674	Evolution	4
Select one:		3-4
PHY 2005	Applied Physics 2	
PHY 2054	Physics 2	
PHY 2049	Physics with Calculus 2	
Select one:		1
PHY 2005L	Laboratory for Applied Physics 2	
PHY 2054L	Laboratory for Physics 2	
PHY 2049L	Laboratory for Physics with Calculus 2	
Natural science course		3
	Credits	14-15

Semester Seven		
Electives		8
Natural science courses		8
	Credits	16
Semester Eight		
BSC 4936	Critical Analysis of Biological Research	2
Electives		7
Natural science courses		7
	Credits	16
	Total Credits	120

Academic Learning Compact

Biology is the study of the many diverse forms, processes and systems of life. These studies range across all levels of the biological hierarchy, from the simplest to the most complex life forms, across all environments on the earth and across recent and evolutionary time that interconnects ancestors to their descendants.

To understand this vast diversity, the field of biology correspondingly relies on integrative and comparative approaches for the resolution of the general processes, principles and unifying themes that govern living systems. Biology is therefore very interdisciplinary and biologists rely on knowledge from the physical sciences and mathematics, as well as from across the disciplines and subdisciplines of biology for advances and breakthroughs.

The biology major is administered jointly by the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences.

Before Graduating Students Must

- Achieve a passing score for all content subsections of the Major Field Test for Biology. Content subscore areas are molecular biology and genetics, organismal biology, evolution, ecology and population biology.
- Achieve a passing score on the analytical skills assessment indicator of the Major Field Test for Biology.
- Achieve a passing score on the bioethics module quiz in BSC 4936. The content of the module and quiz are reviewed and approved by a faculty committee.
- Achieve a passing score on the scientific literacy paper assignment given in BSC 4936. This paper is graded using a faculty-developed rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map for All Specializations except CALS Biotechnology

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		R
ANS 3319C or BOT 3503 or HOS 4304 or PCB 3713C or PCB 4723C	R	R		R
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A

MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Curriculum Map for CALS Biotechnology

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Biology | Preprofessional

This program provides a broad, general overview of the structure, function, growth, origin, evolution, and distribution of living organisms. Biology students take courses in biology, chemistry, physics, calculus, and statistics. The major is flexible and combines the faculty and resources of two UF colleges to prepare students for career success.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Applied Biology (p. 74) | Biotechnology (p. 80) | Natural Science (p. 86) | Preprofessional (p. 91)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Biology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The biology major develops fundamental knowledge of animals, plants and microorganisms. The four specializations offered by the College of Agricultural and Life Sciences are tailored to meet the needs of preprofessional students, those preparing for graduate studies in biology or specialized areas such as bioinformatics, ecology, genetics and molecular biology and those seeking a career in biotechnology, education, natural resource management and environmental or biotechnology law.

Coursework for the Major

College of Agricultural and Life Sciences (CALS) students in the biology major choose one of four specializations: applied biology, biotechnology, natural science or preprofessional biology. These specializations require significant introductory coursework and credits in general biology, calculus and/or statistics, general chemistry, organic chemistry and physics. Students who are uncertain about which specialization to choose should consult a biology advisor for information and guidance on curriculum planning. Students can individualize their curriculum through approved specialization electives in the life sciences.

Applied Biology

For students interested in learning how fundamental biology is applied to solving problems. This specialization provides exposure to the major issues facing sustainability of human populations and natural resources.

Biotechnology

Prepares students for careers where knowledge of molecular biology and genetic engineering are important. Students will have the opportunity to learn various techniques and scientific procedures in molecular biology, virology, bioengineering, cell and tissue culture and bioinformatics.

Natural Science

For students interested in descriptive and interpretive biology, with an emphasis on field biology. The specialization provides exposure to the major forms of flora and fauna, and integrates some of the major elements that influence flora and fauna, namely soil/water relations and human activities.

Preprofessional

For students preparing for admission to medical, dental, optometry, veterinary or other professional schools.

Relevant Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified secondary school biology teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a biology advisor or the UFTeach advisor. UFTeach students complete the UFTeach minor in science teaching with their B.S. in biology and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Bioinformatics

Bioinformatics skills are valuable for students who may seek careers which will necessitate the analysis of genomic data. This minor provides students the opportunity to learn programming skills, mine genomic data, and participate in independent research.

Research

All biology majors are encouraged to participate in research. Research experience is valuable on many levels: It diversifies the college experience; teaches how scientists apply the knowledge gained in the classroom to real world questions; provides the opportunity to work with and get to know researchers who are the best in their field; enables participation in cutting edge scientific questions and techniques; enhances the student's resume/CV when applying to graduate or professional school; and finally, it is essential to help the student determine if science is an appropriate career choice.
More Info (http://major.biology.ufl.edu/do-research)

CALS biology majors may participate in research for course credit as a scholar (e.g., University Scholar, HHMI Science for Life Scholar), as a volunteer, or, in rare cases, as a paid research assistant.

Related Biology Programs

- Bachelor of Arts or Bachelor of Science in Biology, CLAS (p. 576)
- Bachelor of Arts in Biology, UF Online (p. 570)

Preprofessional

This specialization prepares biology majors for admission to medical, dental, optometry or veterinary school, and it also is excellent preparation for graduate study.

Code	Title	Credits
Required Foundation Coursework		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	4
CHM 2210	Organic Chemistry 1	3
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312 or STA 2023	Analytic Geometry and Calculus 2 Introduction to Statistics 1	4
Select one option:		8-10
Option A		

PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option B		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Required Core Coursework		
AGR 3303	Genetics	3
or PCB 3063	Genetics	
Select one:		3-5
BSC 3096	Human Physiology	
PCB 3713C	Cellular and Systems Physiology	
PCB 4723C	Physiology and Molecular Biology of Animals	
Select one:		3-4
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms	
PCB 3134	Eukaryotic Cell Structure and Function	
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
BSC 4936	Critical Analysis of Biological Research	2
Approved additional life science courses (minimum)		12
Total Credits		67-72

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260101&track=01) may be used for transfer students.

Semester 1

- Complete CHM 2045/CHM 2045L or MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046/CHM 2046L, BSC 2010/BSC 2010L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		2
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	14-15
Semester Three		
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2210	Organic Chemistry 1	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3-4
or MAC 2312	or Analytic Geometry and Calculus 2	
Elective		2
Gen Ed Composition; Writing Requirement		3
	Credits	15-16
Semester Four		
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
CHM 2211	Organic Chemistry 2	5
& 2211L	and Organic Chemistry Laboratory	
Electives		7
	Credits	16
Semester Five		
AEC 3030C	Effective Oral Communication	3
or SPC 2608	or Introduction to Public Speaking	
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
PHY 2053	Physics 1	3-4
or PHY 2048	or Physics with Calculus 1	
PHY 2053L	Laboratory for Physics 1	1
or PHY 2048L	or Laboratory for Physics with Calculus 1	
Elective		3
	Credits	14-15
Semester Six		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
Select one:		3-4

MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	
PCB 3134	Eukaryotic Cell Structure and Function	
PHY 2054 or PHY 2049	Physics 2 or Physics with Calculus 2	3-4
PHY 2054L or PHY 2049L	Laboratory for Physics 2 or Laboratory for Physics with Calculus 2	1
Electives		6
	Credits	16-18
Semester Seven		
AGR 3303 or PCB 3063	Genetics or Genetics	3-4
Electives		6
Life science courses		6
	Credits	15-16
Semester Eight		
BSC 4936	Critical Analysis of Biological Research	2
Select one:		3-5
BSC 3096	Human Physiology	
PCB 3713C	Cellular and Systems Physiology	
PCB 4723C	Physiology and Molecular Biology of Animals	
Electives		4
Life science courses		6
	Credits	15-17
	Total Credits	120

Academic Learning Compact

Biology is the study of the many diverse forms, processes and systems of life. These studies range across all levels of the biological hierarchy, from the simplest to the most complex life forms, across all environments on the earth and across recent and evolutionary time that interconnects ancestors to their descendants.

To understand this vast diversity, the field of biology correspondingly relies on integrative and comparative approaches for the resolution of the general processes, principles and unifying themes that govern living systems. Biology is therefore very interdisciplinary and biologists rely on knowledge from the physical sciences and mathematics, as well as from across the disciplines and subdisciplines of biology for advances and breakthroughs.

The biology major is administered jointly by the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences.

Before Graduating Students Must

- Achieve a passing score for all content subsections of the Major Field Test for Biology. Content subscore areas are molecular biology and genetics, organismal biology, evolution, ecology and population biology.
- Achieve a passing score on the analytical skills assessment indicator of the Major Field Test for Biology.
- Achieve a passing score on the bioethics module quiz in BSC 4936. The content of the module and quiz are reviewed and approved by a faculty committee.
- Achieve a passing score on the scientific literacy paper assignment given in BSC 4936. This paper is graded using a faculty-developed rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map for All Specializations except CALS Biotechnology

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		R
ANS 3319C or BOT 3503 or HOS 4304 or PCB 3713C or PCB 4723C	R	R		R
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Curriculum Map for CALS Biotechnology

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Botany | CALS

This program provides a broad background in the biology of plants, from the molecular to the whole-plant level. Botany students study anatomy, biochemistry, ecology, genetics, physiology, taxonomy, and molecular biology of plants. This flexible major combines the faculty and resources of two UF colleges to prepare students for career success.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** General Botany (p. 104) | Botanical Research (p. 98)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Botany Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Small classes are taught by faculty who have a commitment to undergraduate education. Students participate in mentored research, assisting faculty with research projects on campus and abroad. The major prepares students for careers in industry and government agencies, for graduate and professional schools, and for teaching jobs in high schools.

General Botany

For students who may not intend to pursue a graduate degree but are interested in a career in plant biology. This specialization provides some flexibility in tailoring the courses needed in order to pursue specific interests. Students are encouraged to consult with an advisor and botany faculty member when deciding on which courses to take.

Botanical Research

For students who intend to pursue a graduate degree and requires research with a faculty member. This specialization provides some flexibility in tailoring the courses needed in order to pursue specific interests. Students are encouraged to consult with an advisor and botany faculty member when deciding on which courses to take.

Coursework for the Major

Required coursework is dependent upon the specialization. Coursework for each specialization can be found below under Critical Tracking and Model Semester Plan.

Relevant Minors and/or Certificates

Students majoring in botany can minor in most other disciplines, and this is a good way to organize students' electives around areas of interest. Note that botany majors cannot minor in biology, nor can biology majors minor in botany (the curricula for the botany and biology majors are too similar).

UFTeach Program

There is a severe shortage of qualified secondary science teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a botany advisor or the UFTeach advisor. UFTeach students complete the UFTeach minor in science teaching with their B.S. in botany and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Research

Botany majors are strongly encouraged to participate in research, and research is required for the Botanical Research specialization. Research experience is valuable on many levels: it diversifies the college experience; it teaches students how scientists apply the knowledge gained in the classroom to real world questions; it provides the opportunity to work with and get to know researchers who are the best in their field; it introduces students to cutting edge scientific questions and techniques; it can enhance a student's resume/CV when applying to graduate or professional school; and finally it is essential in helping students determine if science is a good career choice.
More Info (http://www.biology.ufl.edu/Undergraduates/Research.aspx)

CALS botany majors may participate in research for course credit, as a scholar (e.g., University Scholar, Science for Life Scholar, Beckman Scholar), as a volunteer, or, in rare cases, as a paid research assistant. Please visit Undergraduate Research for information regarding course credit. Students who plan to enroll for course credit must contact potential research mentors, develop a project, and turn in the required application and proposal no later than the week before drop/add. If the window is missed, students should still contact potential research mentors, if only to discuss upcoming opportunities.

Related Botany Programs

- Combined Degree (p. 1400)
- Bachelor of Science in Botany, CLAS (p. 598)
- Botany minor (p. 597)

Academic Learning Compact

The botany major is offered by both the College of Liberal Arts and Sciences and the College of Agricultural and Life Sciences. This major provides a foundation in the life sciences with emphasis on plant systems. Students will learn the diversity of life, the structure of organisms and ecosystems and how they function (i.e., the acquisition, flow, organization and uses of information, energy and nutrients in living systems). Students will learn the scientific method and how it facilitates the discovery of new knowledge in botany and biology, including how to critically evaluate hypotheses and conclusions.

Before Graduating Students Must

- Achieve acceptable performance in all required botany courses.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
BOT 2011C	R	R		I
BOT 2710C	R	R		R
BOT 3503 and BOT 3503L	R/A	R/A		R/A
BSC 2010	I	I	I	
BSC 2011	I	I		
PCB 3601C	R/A	R/A	R/A	R/A
PCB 4043C	R/A	R/A	R/A	R/A

Assessment Types

- Major field test for biology
- Bioethics quiz
- Scientific paper

Botany | Botanical Research

This program provides a broad background in the biology of plants, from the molecular to the whole-plant level. Botany students study anatomy, biochemistry, ecology, genetics, physiology, taxonomy, and molecular biology of plants. This flexible major combines the faculty and resources of two UF colleges to prepare students for career success.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** General Botany (p. 104) | Botanical Research (p. 98)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Botany Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Small classes are taught by faculty who have a commitment to undergraduate education. Students participate in mentored research, assisting faculty with research projects on campus and abroad. The major prepares students for careers in industry and government agencies, for graduate and professional schools, and for teaching jobs in high schools.

General Botany

For students who may not intend to pursue a graduate degree but are interested in a career in plant biology. This specialization provides some flexibility in tailoring the courses needed in order to pursue specific interests. Students are encouraged to consult with an advisor and botany faculty member when deciding on which courses to take.

Botanical Research

For students who intend to pursue a graduate degree and requires research with a faculty member. This specialization provides some flexibility in tailoring the courses needed in order to pursue specific interests. Students are encouraged to consult with an advisor and botany faculty member when deciding on which courses to take.

Coursework for the Major

Required coursework is dependent upon the specialization. Coursework for each specialization can be found below under Critical Tracking and Model Semester Plan.

Relevant Minors and/or Certificates

Students majoring in botany can minor in most other disciplines, and this is a good way to organize students' electives around areas of interest. Note that botany majors cannot minor in biology, nor can biology majors minor in botany (the curricula for the botany and biology majors are too similar).

UFTeach Program

There is a severe shortage of qualified secondary science teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a botany advisor or the UFTeach advisor. UFTeach students complete the UFTeach minor in science teaching with their B.S. in botany and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Research

Botany majors are strongly encouraged to participate in research, and research is required for the Botanical Research specialization. Research experience is valuable on many levels: it diversifies the college experience; it teaches students how scientists apply the knowledge gained in the classroom to real world questions; it provides the opportunity to work with and get to know researchers who are the best in their field; it introduces students to cutting edge scientific questions and techniques; it can enhance a student's resume/CV when applying to graduate or professional school; and finally it is essential in helping students determine if science is a good career choice.
More Info (http://www.biology.ufl.edu/Undergraduates/Research.aspx)

CALS botany majors may participate in research for course credit, as a scholar (e.g., University Scholar, Science for Life Scholar, Beckman Scholar), as a volunteer, or, in rare cases, as a paid research assistant. Please visit Undergraduate Research for information regarding course credit. Students who plan to enroll for course credit must contact potential research mentors, develop a project, and turn in the required application and proposal no later than the week before drop/add. If the window is missed, students should still contact potential research mentors, if only to discuss upcoming opportunities.

Related Botany Programs

- Combined Degree (p. 1400)
- Bachelor of Science in Botany, CLAS (p. 598)
- Botany minor (p. 597)

Botanical Research

This option provides a strong background in the basic sciences and research, and is intended for students who plan to attend graduate school. Minimum grades of C are required in the foundation and botany major requirements.

Code	Title	Credits
Required Foundation Courses		
Select one:		4-7
BOT 2010C & BOT 2011C	Introductory Botany and Plant Diversity (preferred) [1]	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	4
Select one option:		8-10
Option A		
CHM 2210 & CHM 2211	Organic Chemistry 1 and Organic Chemistry 2	

CHM 2211L	Organic Chemistry Laboratory	
Option B		
CHM 3217	Organic Chemistry/Biochemistry 1	
& CHM 3218	and Organic Chemistry/Biochemistry 2	
CHM 2211L	Organic Chemistry Laboratory	
MAC 2311	Analytic Geometry and Calculus 1	4
Select one:		3
STA 2023	Introduction to Statistics 1	
COP 2800	Computer Programming Using JAVA (or equivalent)	
COP 3275	Computer Programming Using C (or equivalent)	
BSC 2891	Python Programming for Biology	
Select one option:		8-10
Option A		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option B:		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Required Courses for the Botanical Research Specialization		
AGR 3303	Genetics	3-4
or PCB 3063	Genetics	
PCB 4674	Evolution	4
BOT 2710C	Practical Plant Taxonomy	3
BOT 3503	Physiology and Molecular Biology of Plants	5
& 3503L	and Physiology and Molecular Biology of Plants Laboratory	
BOT 4911	Undergraduate Research in Botany	3
BSC 3911	Entering Research in Biology [2]	1
BSC 4936	Critical Analysis of Biological Research	2
Ecology and Florida Biodiversity		
Select two:		6-8
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	
BSC 3307C	Climate Change Biology	4
Cells and Tissues		
Select one:		3-4
BOT 4935/5225C	Special Topics (Plant anatomy)	
PCB 3023	Essential Cell Biology	
BCH 4024	Introduction to Biochemistry and Molecular Biology	
Biodiversity Breadth		
Select one:		3-4
BOT 2011C	Plant Diversity [1]	
ZOO 4307C	Vertebrate Biodiversity	
ZOO 4926	Special Topics in Zoology (Mammalogy)	
ZOO 4205C	Invertebrate Biodiversity	
ENY 3005	Principles of Entomology	
& 3005L	and Principles of Entomology Laboratory	
WIS 4934	Topics in Wildlife Ecology and Conservation (Mammalogy)	
PLP 3002C	Fundamentals of Plant Pathology	
PLP 4653C	Basic Fungal Biology	
MCB 2000	Microbiology	
& 2000L	and Microbiology Laboratory	
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms	
Total Credits		76-88

[1] Students who choose BOT 2011C to fulfill the foundation requirements may not use BOT 2011C to fulfill the biodiversity breadth requirements for the major.

[2] Must be taken concurrently with BOT 4911.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260301&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses, including lab: BSC 2010/BSC 2010L or BOT 2010C, BSC 2011/BSC 2011L or BOT 2011C, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, including labs
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, including labs, with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, including labs, with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 5 critical-tracking courses, including labs, with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
BSC 1920	First Year Introduction: Biology at UF (recommended elective)	1
	Credits	15
Semester Two		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
Select one:		3-4
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	

BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences)	
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16-17
Semester Three		
Select one:		4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences)	
CHM 2210	Organic Chemistry 1 (Gen Ed Physical Sciences)	3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Elective		2
	Credits	15
Semester Four		
AEC 3030C	Effective Oral Communication	3
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
Select one:		3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	
COP 2800	Computer Programming Using JAVA (or equivalent)	
COP 3275	Computer Programming Using C (or equivalent; Gen Ed Mathematics)	
BSC 2891	Python Programming for Biology	
Gen Ed Mathematics [1]		3
	Credits	14
Semester Five		
Select one:		3-4
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	
BSC 3307C	Climate Change Biology	
PCB 4674	Evolution	4
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2	5
Gen Ed Humanities		3
	Credits	15-16
Semester Six		
BOT 2710C	Practical Plant Taxonomy	3
Select one:		3-4
BOT 4935/5225C	Special Topics (Plant Anatomy)	
PCB 3023	Essential Cell Biology	
BCH 4024	Introduction to Biochemistry and Molecular Biology	
Electives		5
Foreign language		5
	Credits	16-17
Semester Seven		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
AGR 3303 or PCB 3063	Genetics or Genetics	3-4
BOT 4911 & BSC 3911	Undergraduate Research in Botany and Entering Research in Biology	1-4
Select one:		3-4
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	

BSC 3307C	Climate Change Biology	
	Credits	10-16
Semester Eight		
BOT 3503	Physiology and Molecular Biology of Plants	5
& 3503L	and Physiology and Molecular Biology of Plants Laboratory	
BSC 4936	Critical Analysis of Biological Research	2
Biodiversity breadth course		3-4
Electives		6
	Credits	16-17
	Total Credits	117-127

[1] Gen Ed Mathematics; if COP 2800 taken for computational requirement; or elective.

Academic Learning Compact

The botany major is offered by both the College of Liberal Arts and Sciences and the College of Agricultural and Life Sciences. This major provides a foundation in the life sciences with emphasis on plant systems. Students will learn the diversity of life, the structure of organisms and ecosystems and how they function (i.e., the acquisition, flow, organization and uses of information, energy and nutrients in living systems). Students will learn the scientific method and how it facilitates the discovery of new knowledge in botany and biology, including how to critically evaluate hypotheses and conclusions.

Before Graduating Students Must

- Achieve acceptable performance in all required botany courses.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
BOT 2011C	R	R		I
BOT 2710C	R	R		R
BOT 3503 and BOT 3503L	R/A	R/A		R/A
BSC 2010	I	I	I	
BSC 2011	I	I		
PCB 3601C	R/A	R/A	R/A	R/A
PCB 4043C	R/A	R/A	R/A	R/A

Assessment Types

- Major field test for biology
- Bioethics quiz
- Scientific paper

Botany | General Botany

This program provides a broad background in the biology of plants, from the molecular to the whole-plant level. Botany students study anatomy, biochemistry, ecology, genetics, physiology, taxonomy, and molecular biology of plants. This flexible major combines the faculty and resources of two UF colleges to prepare students for career success.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** General Botany (p. 104) | Botanical Research (p. 98)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Botany Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Small classes are taught by faculty who have a commitment to undergraduate education. Students participate in mentored research, assisting faculty with research projects on campus and abroad. The major prepares students for careers in industry and government agencies, for graduate and professional schools, and for teaching jobs in high schools.

General Botany

For students who may not intend to pursue a graduate degree but are interested in a career in plant biology. This specialization provides some flexibility in tailoring the courses needed in order to pursue specific interests. Students are encouraged to consult with an advisor and botany faculty member when deciding on which courses to take.

Botanical Research

For students who intend to pursue a graduate degree and requires research with a faculty member. This specialization provides some flexibility in tailoring the courses needed in order to pursue specific interests. Students are encouraged to consult with an advisor and botany faculty member when deciding on which courses to take.

Coursework for the Major

Required coursework is dependent upon the specialization. Coursework for each specialization can be found below under Critical Tracking and Model Semester Plan.

Relevant Minors and/or Certificates

Students majoring in botany can minor in most other disciplines, and this is a good way to organize students' electives around areas of interest. Note that botany majors cannot minor in biology, nor can biology majors minor in botany (the curricula for the botany and biology majors are too similar).

UFTeach Program

There is a severe shortage of qualified secondary science teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a botany advisor or the UFTeach advisor. UFTeach students complete the UFTeach minor in science teaching with their B.S. in botany and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Research

Botany majors are strongly encouraged to participate in research, and research is required for the Botanical Research specialization. Research experience is valuable on many levels: it diversifies the college experience; it teaches students how scientists apply the knowledge gained in the classroom to real world questions; it provides the opportunity to work with and get to know researchers who are the best in their field; it introduces students to cutting edge scientific questions and techniques; it can enhance a student's resume/CV when applying to graduate or professional school; and finally it is essential in helping students determine if science is a good career choice.
More Info (http://www.biology.ufl.edu/Undergraduates/Research.aspx)

CALS botany majors may participate in research for course credit, as a scholar (e.g., University Scholar, Science for Life Scholar, Beckman Scholar), as a volunteer, or, in rare cases, as a paid research assistant. Please visit Undergraduate Research for information regarding course credit. Students who plan to enroll for course credit must contact potential research mentors, develop a project, and turn in the required application and proposal no later than the week before drop/add. If the window is missed, students should still contact potential research mentors, if only to discuss upcoming opportunities.

Related Botany Programs

- Combined Degree (p. 1400)
- Bachelor of Science in Botany, CLAS (p. 598)
- Botany minor (p. 597)

General Botany

This option is intended for students who do not plan to attend graduate or professional school, but are planning a career in government, public service, or secondary education. A student must achieve a minimum grade of C in all required courses for the major.

Code	Title	Credits
Required Foundation Courses		
Select one:		4-7
BOT 2010C & BOT 2011C	Introductory Botany and Plant Diversity (preferred) [1]	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	4
CHM 2200 & 2200L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	4
MAC 1147 or MAC 2311	Precalculus Algebra and Trigonometry Analytic Geometry and Calculus 1	4
Select one:		3
STA 2023	Introduction to Statistics 1	
COP 2800	Computer Programming Using JAVA (or equivalent)	
COP 3275	Computer Programming Using C (or equivalent)	
BSC 2891	Python Programming for Biology	
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1	4
Required Courses for the General Botany Specialization		
AGR 3303 or PCB 3063	Genetics Genetics	3-4
PCB 4674	Evolution	4
BOT 2710C	Practical Plant Taxonomy	3
BOT 3503 & 3503L	Physiology and Molecular Biology of Plants and Physiology and Molecular Biology of Plants Laboratory	5
BSC 4936	Critical Analysis of Biological Research	2
Ecology and Florida Biodiversity		
Select two:		6-8
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	
BSC 3307C	Climate Change Biology	4
Cells and Tissues		
BOT 4935/5225C or PCB 3023	Special Topics (Plant Anatomy) Essential Cell Biology	4
Biodiversity Breadth		
Select one:		3-4
BOT 2011C	Plant Diversity [1]	
ZOO 4307C	Vertebrate Biodiversity	
ZOO 4926	Special Topics in Zoology (Mammalogy)	
ZOO 4205C	Invertebrate Biodiversity	
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	
WIS 4934	Topics in Wildlife Ecology and Conservation (Mammalogy)	
PLP 3002C	Fundamentals of Plant Pathology	

PLP 4653C	Basic Fungal Biology	
MCB 2000 & 2000L	Microbiology and Microbiology Laboratory	
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	
Select two from any of the above courses or other approved electives		4-8
Total Credits		69-80

[1] Students who choose BOT 2011C to fulfill the foundation requirements may not use BOT 2011C to fulfill the biodiversity breadth requirements for the major.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260301&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses, including lab: BSC 2010/BSC 2010L or BOT 2010C, BSC 2011/BSC 2011L or BOT 2011C, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L; MAC 1147, MAC 2311 or STA 2023
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, including labs
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, including labs, with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, including labs, with 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs, with 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		4
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		4

MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
BSC 1920	First Year Introduction: Biology at UF (recommended elective)	1
	Credits	15
Semester Two		
Select one:		4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences)	
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences	3
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
Elective		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1	4
Select one:		3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	
COP 2800	Computer Programming Using JAVA (or equivalent)	
COP 3275	Computer Programming Using C (or equivalent; Gen Ed Mathematics)	
BSC 2891	Python Programming for Biology	
Gen Ed Social and Behavioral Sciences		3
	Credits	13-14
Semester Five		
CHM 2200 & 2200L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	4
Select one:		3-4
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	
BSC 3307C	Climate Change Biology	
PCB 4674	Evolution	4
Gen Ed Humanities		3
	Credits	14-15
Semester Six		
AEC 3030C	Effective Oral Communication	3
AGR 3303 or PCB 3063	Genetics or Genetics	3-4
BOT 2710C	Practical Plant Taxonomy	3
BOT 4935/5225C or PCB 3023	Special Topics (Plant Anatomy) or Essential Cell Biology	3-4
Gen Ed Mathematics [1]		3
	Credits	15-17

Semester Seven		
BOT 3503 & 3503L	Physiology and Molecular Biology of Plants and Physiology and Molecular Biology of Plants Laboratory	5
Select one:		3-4
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	
BSC 3307C	Climate Change Biology	
Approved botany electives		6
Elective		3
	Credits	17-18
Semester Eight		
BSC 4936	Critical Analysis of Biological Research	2
Biodiversity breadth courses		4
Electives		10
	Credits	16
	Total Credits	120

[1] Gen Ed Mathematics; if COP 2800 or BSC 2891 taken for computational requirement; or elective.

Approved Electives

Code	Title	Credits
AGG 3501	Environment, Food and Society	3
AGR 4304	Plant Chromosomes and Genomes	3
AGR 4320	Plant Breeding	3
AGR 4512	Physiology and Ecology of Crops	3
ALS 4163	Challenges in Plant Resource Protection	3
BCH 5045	Grad Survey Biochem (online)	4
BCH 3023	Elementary Organic and Biological Chemistry (online)	3
BOT 2800C	Plants in Human Affairs	3
BOT 4053	Practical Experience in Teaching Botany	2
BOT 4621	Plant Geography	2
BOT 4935	Special Topics (Botany)	2-4
BOT 4935/5305	Special Topics (Paleobotany)	3
BSC 2862	Global Change Ecology and Sustainability	3
BSC 3402	Theory and Practice in the Biological Sciences	2
ENY 4161	Insect Classification	3
FNR 3131C	Dendrology/Forest Plants	3
FOR 2662	Forests for the Future	3
FOR 3004	Forests, Conservation and People	3
FOR 3153C	Forest Ecology	3
FOR 3342C	Tree Biology	3
FOR 4060	Global Forests	3
HOS 3305	Introduction to Plant Molecular Biology	3
HOS 4304	Horticultural Physiology	3
HOS 4313C	Laboratory Methods in Plant Molecular Biology	2
HOS 4341	Advanced Horticultural Physiology	3
MCB 4304	Genetics of Microorganisms	3
MCB 4320C	The Microbiome	3
MCB 4503	General Virology	3
MCB 4652	Environmental Microbiology	3
ORH 3513C	Environmental Plant Identification and Use	3
ORH 3773	Public Gardens	2
ORH 3815C	Florida Native Landscaping	3
PCB 4553	Population Genetics	4
PCB 5338	Princpls Ecosys Ecol	3
PLP 2060	Fungus among Us: Mushrooms, Molds and Civilization	3
PLP 3230	Survey of Plant Pathogens	3
PLS 4601C	Principles of Weed Science	3

Academic Learning Compact

The botany major is offered by both the College of Liberal Arts and Sciences and the College of Agricultural and Life Sciences. This major provides a foundation in the life sciences with emphasis on plant systems. Students will learn the diversity of life, the structure of organisms and ecosystems and how they function (i.e., the acquisition, flow, organization and uses of information, energy and nutrients in living systems). Students will learn the scientific method and how it facilitates the discovery of new knowledge in botany and biology, including how to critically evaluate hypotheses and conclusions.

Before Graduating Students Must

- Achieve acceptable performance in all required botany courses.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
BOT 2011C	R	R		I
BOT 2710C	R	R		R
BOT 3503 and BOT 3503L	R/A	R/A		R/A
BSC 2010	I	I	I	
BSC 2011	I	I		
PCB 3601C	R/A	R/A	R/A	R/A
PCB 4043C	R/A	R/A	R/A	R/A

Assessment Types

- Major field test for biology
- Bioethics quiz
- Scientific paper

CALS Honor Scholar Certificate

Students earning the CALS honors scholar certificate must complete at least nine credits of honors coursework and an undergraduate honors thesis. The coursework, thesis topic and thesis advisor are unique to each student and are subject to approval by the CALS honors program director. Students must have an upper-division GPA of 3.75 or higher to complete the program and earn the certificate.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 9 | Completed with minimum grades of C or S
- **Contact:** Email (wysocki@ufl.edu) | 352.392.1963

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

- CALS major
- Admission to the CALS honors program
- Completion of 60 credits
- Minimum 3.75 UF GPA

Required Courses

- ALS 3923, *1 credit*
- XXX 4915 Honors Thesis Research (or similar independent study/research course to be completed as the student is working on their thesis research), *3-4 credits*
- Additional honors coursework, *4-5 credits*, taken as:
  - Existing 3000/4000-level honors courses, approved by the honors program director
  - Existing 3000/4000-level CALS courses taken as honors contract courses, approved by the honors program director
  - CALS graduate-level courses, approved by the honors program director
- A completed honors thesis, approved by the research mentor, department honors coordinator and honors program director

Challenge 2050 | Global Leadership and Change Certificate

This certificate focuses on global community challenges as we face a population predicted to exceed nine billion people by the year 2050. The program empowers students to take action in addressing the unstructured, complex and adaptive world challenges in sustainable development and food security.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 10

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Because the issues we face are radically different than the issues addressed by traditional educational models, this program is outside of the normal bounds of a disciplinary degree or a semester-long course. Students earning the certificate will be engaged in high level, complex problem solving which will create a strong professional foundation for success in a variety of fields.

Required Courses

Code	Title	Credits
ALS 2410	Challenge 2050: Global Uncertainty	3
ALS 3415	Challenge 2050: Developing Tools for Changing the World	3
ALS 3940	Challenge 2050: the Experience	3
ALS 4419	Challenge 2050: Creating Solutions	1
Total Credits		10

Dietetics

This program applies the science of food and nutrition to the health and well-being of individuals and groups. Dietetics students study chemistry, biology, microbiology, nutrition, communication, food science, and management. They are well-prepared for dietetic internships or graduate study.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Food Science and Human Nutrition Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Didactic Program in Dietetics (DPD) is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. Successful program completion enables students to compete for placement in dietetic internships, a required step in becoming a Registered Dietitian (RD). Students may also pursue graduate study.

Registered dietitians are employed in health care facilities, government and public health agencies, food companies, schools and universities, private practice, and a variety of other settings. Opportunities are also increasing for RDs in wellness and fitness programs and in sales and marketing for business and industry. Students interested in dietetic internships should obtain volunteer or work experience with an RD, and participate in leadership opportunities with the FSHN Club or other clubs on campus.

Related Food Science and Human Nutrition Programs

- Bachelor of Science in Food Science (p. 152)
- Bachelor of Science in Nutritional Sciences (p. 240)
- Food Science minor (p. 155)
- Nutritional Sciences minor (p. 243)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011001&track=02) may be used for transfer students.

Semester 1

- Complete CHM 2045/CHM 2045L or MAC 1147
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 1147
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046/CHM 2046L and BSC 2010/BSC 2010L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3

State Core Gen Ed Humanities (p. 23)		3
	Credits	13-14
Semester Two		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
PSY 2012	General Psychology (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
Gen Ed Composition; Writing Requirement		3
Elective		3
	Credits	16
Semester Three		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Elective		1
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
HUN 2201	Fundamentals of Human Nutrition	3
MCB 2000 & 2000L	Microbiology and Microbiology Laboratory (Gen Ed Biological Sciences)	4
Elective		3
	Credits	14
Semester Five		
AEC 3030C	Effective Oral Communication	3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
CHM 2210	Organic Chemistry 1 (minimum grade of C within two attempts, including withdrawals)	3
FOS 3042	Introductory Food Science	3
MAN 3025	Principles of Management	4
	Credits	16
Semester Six		
AEB 3122	Financial Planning for Agribusiness	3
APK 2105C	Applied Human Physiology with Laboratory	4
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
DIE 3310	Community Nutrition	2
HUN 3403	Nutrition through the Life Cycle	2
	Credits	16
Semester Seven		
BCH 3025	Fundamentals of Biochemistry	4
DIE 4125 & 4125L	Food Systems Management and Food Systems Management Laboratory	5
DIE 4245	Medical Nutrition Therapy Applications: Part 1	3
DIE 4505	Dietetics Seminar	1
HUN 4445	Nutrition and Disease: Part 1	2
	Credits	15
Semester Eight		
DIE 4246	Medical Nutrition Therapy Applications: Part 2	3
DIE 4436	Nutrition Counseling and Communication	2
FOS 4311 & FOS 4310L	Food Chemistry and Experimental Foods Laboratory	4
HUN 4221	Nutrition and Metabolism	3

HUN 4446	Nutrition and Disease: Part 2	3
	Credits	15
	Total Credits	120

Additional electives may be needed to complete the 120 credits required for graduation.

Academic Learning Compact

Dietetics applies the science of food and nutrition to the health and well-being of individuals and groups. Students will learn to use knowledge of nutrient requirements, food sources and physiological systems to determine nutrient and dietary needs of individuals in various life-cycle stages and/or with nutrition-related diseases. Students also will apply their knowledge of food science and management principles to food service operations.

Before Graduating Students Must

- Satisfactorily complete a service-learning comprehensive client assessment in DIE 4245, a systems analysis of a major foodservice event developed by students in DIE 4125L and a community assessment project in DIE 3310. The projects will be graded by rubrics developed, approved and evaluated by a faculty committee.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Use the nutrition care process to make decisions, identify nutrition-related problems and determine and evaluate nutrition interventions.
2. Apply management and business theories and principles to the development, marketing and delivery of programs and services.

Critical Thinking

3. Develop outcome measures, use informatics principles and technology to collect and analyze data for assessment and evaluate data for use in decision-making.

Communication

4. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AEC 3030C				I, R, A
AEC 3033C				I, R, A
DIE 3310		I	I	
DIE 4125		R, A	R	
DIE 4125L		R	A	
DIE 4245	R		R	
DIE 4246	R		R	
DIE 4436	R		R	R
HUN 4445	I		R	

Assessment Types

- Nutrition assessment project
- Marketing project
- Systems analysis
- Speeches
- Papers

Entomology and Nematology

This biological science includes the study of insects, mites, ticks, spiders, and nematodes. These creatures can have both helpful and harmful effects on our food, environment, and health. Entomology and Nematology students study ecology, medically significant arthropods, social insects, insect management, physiology, behavior, evolution, natural ecosystem cycles, and systematics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Biological Science of Insects (p. 115) | Preprofessional (p. 119) | Urban Pest Management (p. 122)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Entomology and Nematology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Department of Entomology and Nematology offers the major. Faculty within the department cover areas in systematics, ecology, medically significant arthropods, social insects, insect management, physiology, behavior, evolution and natural ecosystem cycles. The department has a long tradition of sending students to medical, veterinary and dental school. Graduate school prospects are also high and employment options using entomology are versatile.

Related Entomology and Nematology Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Entomology and Nematology minor (p. 126)

Academic Learning Compact

The entomology and nematology curriculum develops an excellent knowledge base and an understanding of concepts and fundamental practices. Through formal courses, laboratory experimentation and individual research experience, students will learn how the scientific method is applied to the biological world at the whole organism and population levels. Students will learn to evaluate hypotheses, to acquire and interpret experimental data, and to communicate results effectively in appropriate styles. Special focus will be information on insect identification, morphology, behavior, physiology and ecology.

Before Graduating Students Must

- Pass the entomology and nematology competency exam, which will be tailored to individual specializations.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify insects and describe and explain insect morphology, physiology and behavior.

Critical Thinking

2. Acquire, analyze and synthesize entomological information.

Communication

3. Communicate proficiently in the sciences in oral and written forms.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
AEC 3030C			A
AEC 3033C			A
ENY 3005	I, A	I, A	I
ENY 3005L	A	A	
ENY 4161	R, A		R, A

Assessment Types

- Assignments
- Exams
- Course grades
- Research collection

Entomology and Nematology | Biological Science of Insects

This biological science includes the study of insects, mites, ticks, spiders, and nematodes. These creatures can have both helpful and harmful effects on our food, environment, and health. Entomology and Nematology students study ecology, medically significant arthropods, social insects, insect management, physiology, behavior, evolution, natural ecosystem cycles, and systematics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Biological Science of Insects (p. 115) | Preprofessional (p. 119) | Urban Pest Management (p. 122)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Entomology and Nematology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Department of Entomology and Nematology offers the major. Faculty within the department cover areas in systematics, ecology, medically significant arthropods, social insects, insect management, physiology, behavior, evolution and natural ecosystem cycles. The department has a long tradition of sending students to medical, veterinary and dental school. Graduate school prospects are also high and employment options using entomology are versatile.

Related Entomology and Nematology Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Entomology and Nematology minor (p. 126)

Biological Science of Insects

This option prepares students for entry to entomological careers and to graduate school. Except with undergraduate coordinator permission, students are expected to complete the following courses on campus; other ENY courses can be taken online:

Code	Title	Credits
ENY 3005	Principles of Entomology	2
ENY 3005L	Principles of Entomology Laboratory	1
ENY 4161	Insect Classification	3
ENY 4660	Medical and Veterinary Entomology	2
ENY 4660L	Medical and Veterinary Entomology Laboratory	1

Minimum grades of C are required for all core courses. Students must maintain a 2.0 cumulative GPA for specialization electives with no individual course grade less than C-.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260702&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical-tracking courses, excluding labs: BSC 2010/BSC 2010L or BOT 2010C, BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2233
- 2.5 GPA on math and science courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA on math and science courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA on math and science courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA on math and science courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.5 GPA on math and science courses
- 2.0 UF GPA required

Model Semester Plan

All entomology majors in this specialization must take three credits of ENY 4905 or ENY 4911. See advisor for details.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	
BOT 2010C	Introductory Botany (**Critical Tracking**; State Core Gen Ed Biological Sciences)	
Select one: State Core Gen Ed Composition; Writing Requirement		3
ENC 1101	Expository and Argumentative Writing	
ENC 2210	Technical Writing	
ENC 3254	Professional Writing in the Discipline	
MAC 1147 or MAC 2311	Precalculus Algebra and Trigonometry or Analytic Geometry and Calculus 1	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	13-14
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Gen Ed Social and Behavioral Sciences		3
	Credits	16-17
Semester Three		
AEC 3030C	Effective Oral Communication	3

ENY 3005	Principles of Entomology	3
& 3005L	and Principles of Entomology Laboratory (Gen Ed Biological and Physical Sciences) [1]	
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
Gen Ed Composition		3
Gen Ed International		3
	Credits	16
Semester Four		
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
ENY 4161	Insect Classification [1]	3
Select one: Gen Ed Physical Sciences		3-4
PHY 2004	Applied Physics 1	
& 2004L	and Laboratory for Applied Physics 1	
PHY 2020	Introduction to Principles of Physics	
Ecology elective		3-4
	Credits	13-15
Semester Five		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (**Critical Tracking**)	3
ENY 4660	Medical and Veterinary Entomology	3
& 4660L	and Medical and Veterinary Entomology Laboratory [1]	
IPM 3022	Fundamentals of Pest Management	3
or PMA 4570C	or Field Techniques in IPM	
Select one:		3
ALS 4161	Exotic Species and Biosecurity Issues	
ALS 4162	Consequences of Biological Invasions	
PCB 2441	Biological Invaders	
Select one: Gen Ed Biological		4
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms	
MCB 2000	Microbiology	
& 2000L	and Microbiology Laboratory	
	Credits	16
Semester Six		
Select one:		3-4
AGR 3303	Genetics	
PCB 3063	Genetics	
PCB 4674	Evolution	
Select one:		3
ENY 4455C	Social Insects	
ENY 4573	Beekeeping	
ENY 4210	Insects and Wildlife	
Select one:		3
ALS 4163	Challenges in Plant Resource Protection	
ENY 3225C	Principles of Urban Pest Management	
ENY 3510C	Turf and Ornamental Entomology	
Gen Ed Diversity		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15-16
Semester Seven		
Select one:		3
ENY 4905	Problems in Entomology	
ENY 4911	Supervised Research in Entomology	
Select one:		3
PLP 3002C	Fundamentals of Plant Pathology	
PLS 3004C	Principles of Plant Science	
PLS 4601C	Principles of Weed Science	
Approved electives [2]		6
Entomology elective		3
	Credits	15

Semester Eight

Select one:		3
ENY 4905	Problems in Entomology	
ENY 4911	Supervised Research in Entomology	
NEM 3002	Principles of Nematology	3
Entomology elective		4
Approved electives [2]		6
	Credits	16
	Total Credits	120

[1] Must be taken on campus.

[2] Pre-vet majors need appropriate animal science requirements as electives.

Ecology Electives

Code	Title	Credits
ALS 3153	Agricultural Ecology	3
ENY 4202	Ecology of Vector-Borne Disease	2
ENY 4453	Behavioral Ecology and Systematics	3
PCB 4043C	General Ecology	4
WIS 3401	Wildlife Ecology and Management	3

Academic Learning Compact

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AEC 3033C			A
ENY 3005	I, A	I, A	I
ENY 3005L	A	A	
ENY 4161	R, A		R, A

Assessment Types

- Assignments
- Exams

- Course grades
- Research collection

Entomology and Nematology | Preprofessional

This biological science includes the study of insects, mites, ticks, spiders, and nematodes. These creatures can have both helpful and harmful effects on our food, environment, and health. Entomology and Nematology students study ecology, medically significant arthropods, social insects, insect management, physiology, behavior, evolution, natural ecosystem cycles, and systematics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Biological Science of Insects (p. 115) | Preprofessional (p. 119) | Urban Pest Management (p. 122)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Entomology and Nematology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Department of Entomology and Nematology offers the major. Faculty within the department cover areas in systematics, ecology, medically significant arthropods, social insects, insect management, physiology, behavior, evolution and natural ecosystem cycles. The department has a long tradition of sending students to medical, veterinary and dental school. Graduate school prospects are also high and employment options using entomology are versatile.

Related Entomology and Nematology Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Entomology and Nematology minor (p. 126)

Preprofessional

This option provides preparation for programs in medicine, dentistry, optometry, veterinary, chiropractic, osteopathy and podiatry. Students should refer to the preprofessional information in the college's admission section and they should contact the Office of Health and Legal Professions Advising in the Academic Advising Center, 100 Farrior Hall.

Except with undergraduate coordinator permission, students are expected to complete the following courses on campus; other ENY courses can be taken online:

Code	Title	Credits
ENY 3005	Principles of Entomology	2
ENY 3005L	Principles of Entomology Laboratory	1
ENY 4161	Insect Classification	3
ENY 4660	Medical and Veterinary Entomology	2
ENY 4660L	Medical and Veterinary Entomology Laboratory	1

Minimum grades of C are required for all core courses. Students must maintain a 2.0 cumulative GPA for specialization electives with no individual course grade less than C-.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260702&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical-tracking courses, excluding labs: BSC 2010/BSC 2010L or BOT 2010C, BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2311
- 2.5 GPA on math and science courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA on math and science courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA on math and science courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA on math and science courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.5 GPA on math and science courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
Select one:		3
ENC 1101	Expository and Argumentative Writing	
ENC 2210	Technical Writing	
ENC 3254	Professional Writing in the Discipline (State Core Gen Ed Composition (p. 23); Writing Requirement)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
	Credits	14
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You	
ECO 2023	Principles of Microeconomics	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
AEC 3030C	Effective Oral Communication	3
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	16-17
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences	3
Select one:		3-4
BSC 2010	Integrated Principles of Biology 1	
& 2010L	and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**)	
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences)	
CHM 2210	Organic Chemistry 1	3-4
or CHM 3217	or Organic Chemistry/Biochemistry 1	

Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15-17
Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2211 or CHM 3218	Organic Chemistry 2 or Organic Chemistry/Biochemistry 2	3-4
CHM 2211L	Organic Chemistry Laboratory	2
Elective		2
Elective (Gen Ed International or Diversity)		3
	Credits	14-15
Semester Five		
AGR 3303	Genetics	3
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory (Gen Ed Biological Sciences; must be taken on campus)	3
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1	5
Approved electives		4
	Credits	15
Semester Six		
Select one:		3-4
ENY 4455C	Social Insects	
ENY 4573	Beekeeping	
ZOO 4205C	Invertebrate Biodiversity	
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	4
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2	5
Approved elective		3
	Credits	15-16
Semester Seven		
Select one:		4
BCH 3025	Fundamentals of Biochemistry	
BCH 4024	Introduction to Biochemistry and Molecular Biology [1]	
ENY 4161	Insect Classification (Gen Ed Biological Sciences; must be taken on campus)	3
ENY 4660 & 4660L	Medical and Veterinary Entomology and Medical and Veterinary Entomology Laboratory (must be taken on campus)	3
Approved electives		6
	Credits	16
Semester Eight		
Select one:		3-4
ENY 4453	Behavioral Ecology and Systematics	
PCB 4043C	General Ecology	
ALS 3153	Agricultural Ecology	
ZOO 4307C	Vertebrate Biodiversity	4
Approved electives		8
	Credits	15-16
	Total Credits	120

[1] Not required if CHM 3217/CHM 3218 was taken.

Academic Learning Compact

The entomology and nematology curriculum develops an excellent knowledge base and an understanding of concepts and fundamental practices. Through formal courses, laboratory experimentation and individual research experience, students will learn how the scientific method is applied to the biological world at the whole organism and population levels. Students will learn to evaluate hypotheses, to acquire and interpret experimental

data, and to communicate results effectively in appropriate styles. Special focus will be information on insect identification, morphology, behavior, physiology and ecology.

Before Graduating Students Must

- Pass the entomology and nematology competency exam, which will be tailored to individual specializations.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify insects and describe and explain insect morphology, physiology and behavior.

Critical Thinking

2. Acquire, analyze and synthesize entomological information.

Communication

3. Communicate proficiently in the sciences in oral and written forms.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
AEC 3030C			A
AEC 3033C			A
ENY 3005	I, A	I, A	I
ENY 3005L	A	A	
ENY 4161	R, A		R, A

Assessment Types

- Assignments
- Exams
- Course grades
- Research collection

Entomology and Nematology | Urban Pest Management

This biological science includes the study of insects, mites, ticks, spiders, and nematodes. These creatures can have both helpful and harmful effects on our food, environment, and health. Entomology and Nematology students study ecology, medically significant arthropods, social insects, insect management, physiology, behavior, evolution, natural ecosystem cycles, and systematics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Biological Science of Insects (p. 115) | Preprofessional (p. 119) | Urban Pest Management (p. 122)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Entomology and Nematology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Department of Entomology and Nematology offers the major. Faculty within the department cover areas in systematics, ecology, medically significant arthropods, social insects, insect management, physiology, behavior, evolution and natural ecosystem cycles. The department has a long tradition of sending students to medical, veterinary and dental school. Graduate school prospects are also high and employment options using entomology are versatile.

Related Entomology and Nematology Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Entomology and Nematology minor (p. 126)

Urban Pest Management

This specialization is for entry to the pest control industry. Students receive instruction about arthropods, nematodes, plant diseases and weeds with reference to the pest problems in residential and commercial property. A business curriculum prepares students for management responsibilities. Students planning to attend graduate school should consult an advisor for appropriate math, chemistry and physics courses.

Except with undergraduate coordinator permission, students are expected to complete the following courses on campus; other ENY courses can be taken online:

Code	Title	Credits
ENY 3005	Principles of Entomology	2
ENY 3005L	Principles of Entomology Laboratory	1
ENY 4161	Insect Classification	3
ENY 4660	Medical and Veterinary Entomology	2
ENY 4660L	Medical and Veterinary Entomology Laboratory	1

Minimum grades of C are required for all core courses. Students must maintain a 2.0 cumulative GPA for specialization electives with no individual course grade less than C-.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260702&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical-tracking courses, excluding labs: BSC 2010/BSC 2010L or BOT 2010C, BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, MAC 1147, PHY 2020 or PHY 2004
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	
BOT 2010C	Introductory Botany (**Critical Tracking**)	
Select one:		3
ENC 1101	Expository and Argumentative Writing	
ENC 2210	Technical Writing	
ENC 3254	Professional Writing in the Discipline (State Core Gen Ed Composition (p. 23); Writing Requirement)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Elective		1
	Credits	14-15
Semester Two		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 1025	Introduction to Chemistry (if needed; or select an elective)	2
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	12
Semester Three		
AEC 3030C	Effective Oral Communication	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	4
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	13
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences	3
Select one:		3
ALS 3203	PC Use in Agriculture (not Gen Ed Mathematics)	
COP 3504	Advanced Programming Fundamentals for CIS Majors (Gen Ed Mathematics)	
Select one:		3
PHY 2004	Applied Physics 1 (**Critical Tracking**)	
PHY 2020	Introduction to Principles of Physics (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2004L	Laboratory for Applied Physics 1 (or select an elective) [1]	1
	Credits	13-14
Summer After Semester Four		
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory (Gen Ed Biological Sciences; must be taken on campus)	3
ENY 3222C	Biology and Identification of Urban Pests	3
Approved Business elective		3
	Credits	9
Semester Five		
ENY 4161	Insect Classification (must be taken on campus)	3
Select one:		4

MCB 2000 & 2000L	Microbiology and Microbiology Laboratory	
PLP 3002C	Fundamentals of Plant Pathology	
ORH 3513C	Environmental Plant Identification and Use	3
STA 2023	Introduction to Statistics 1	3
	Credits	13
Semester Six		
BCN 1210	Construction Materials	3
Select one:		3-5
FOS 4222 & 4222L	Food Microbiology and Food Microbiology Laboratory	
SWS 3022	Introduction to Soils in the Environment	
IPM 3022	Fundamentals of Pest Management	3
Elective (Gen Ed International or Diversity)		3
	Credits	12-14
Summer After Semester Six		
ENY 3225C	Principles of Urban Pest Management	3
ENY 4230	Urban Pesticide Application	3
Approved Business elective		3
	Credits	9
Semester Seven		
ENY 4660 & 4660L	Medical and Veterinary Entomology and Medical and Veterinary Entomology Laboratory (must be taken on campus)	3
NEM 3002	Principles of Nematology	3
PLS 4601C	Principles of Weed Science	3
Approved Business elective		3
	Credits	12
Semester Eight		
BCN 3223C	Soils and Concrete	3
EVS 3000	Environmental Science	3
ENY 4453	Behavioral Ecology and Systematics	3
Approved Business elective		4
	Credits	13
	Total Credits	120

[1] Select an elective if PHY 2020 was taken.

Approved Electives

Business Electives | 13 Credits Minimum

Code	Title	Credits
AEB 3122	Financial Planning for Agribusiness	3
AEB 3133	Principles of Agribusiness Management	3
AEB 3144	Introduction to Agricultural Finance	3
AEB 4085	Agricultural Risk Management and the Law	3
AEB 4123	Agricultural and Natural Resource Law	3
AEB 4424	Human Resources Management in Agribusiness	3
BUL 4310	The Legal Environment of Business	4
MAN 3025	Principles of Management	4
MAR 3023	Principles of Marketing	4
PUR 3000	Principles of Public Relations	3

Other Electives

Code	Title	Credits
FOS 4202	Food Safety and Sanitation	2
ORH 3222C	Turfgrass Culture	4
ORH 4236C	Ornamental Landscape Management	3
PLP 3103C	Control of Plant Diseases	3

Academic Learning Compact

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AEC 3030C			A
AEC 3033C			A
ENY 3005	I, A	I, A	I
ENY 3005L	A	A	
ENY 4161	R, A		R, A

Assessment Types

- Assignments
- Exams
- Course grades
- Research collection

Entomology and Nematology Minor

The entomology and nematology minor is open to any student who wants additional knowledge in this biological science field.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Entomology and Nematology Programs**

Electives enable students to tailor the minor to their individual interests and career goals.

- Nine credits minimum of 3000/4000-level coursework (exclusive of practical problems)
- No more than three credits of practical problems courses
- Except with undergraduate coordinator permission, students are expected to complete the following on campus; other ENY courses can be taken online:

Code	Title	Credits
ENY 3005	Principles of Entomology	2
ENY 3005L	Principles of Entomology Laboratory	1
ENY 4161	Insect Classification	3

ENY 4660	Medical and Veterinary Entomology	2
ENY 4660L	Medical and Veterinary Entomology Laboratory	1

- Students who specialize in nematology must complete six credits from NEM 3002, NEM 5705, or an acceptable practical problem.
- Additional credits in entomology must be approved by the department

Required Courses

Code	Title	Credits
ENY 3005	Principles of Entomology	3
& 3005L	and Principles of Entomology Laboratory [1]	
ENY 4161	Insect Classification [1]	3
ALS, ENY, IPM, NEM, or PMA-prefixed courses [2]		9
Total Credits		15

[1] Must be taken on campus.

[2] Subject to the approval of the Department of Entomology and Nematology's undergraduate coordinator.

Related Entomology and Nematology Programs

- Bachelor of Science in Entomology and Nematology (p. 114)

Environmental Horticulture Management Certificate

The environmental horticulture management certificate is offered via distance learning technologies. The certificate enables the working professional and/or adult learner who is place-bound and cannot attend classes in Gainesville to gain a background in the sustainable ornamental horticulture practices used in the greenhouse/nursery and/or landscape industries. The program emphasizes the conservation of resources through proper plant management.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** Email (klock@ufl.edu) | 954.577.6328
- **Related Plant Science Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Students must have a high-school diploma or the equivalent and they must have completed all course prerequisites before enrolling in any course. Applicants also must have a basic understanding and/or coursework in biology, botany, chemistry or zoology, or permission of the department.

Required Courses

Code	Title	Credits
Select 15 credits: [1]		15
EVR 3323	Introduction to Ecosystem Restoration	
LDE 3410C	Residential Landscape Design	
ORH 3222C	Turfgrass Culture	
ORH 3253C	Introductory Nursery Management	
ORH 3513	Environmental Plant Identification and Use	
ORH 3815C	Florida Native Landscaping	
ORH 4236C	Ornamental Landscape Management	
ORH 4242C	Arboriculture	
ORH 4256	Nutritional Management of Nursery Crops	
ORH 4804	Annual and Perennial Gardening	
ORH 4848	Landscape Plant Establishment	
Total Credits		15

[1] Chosen by the student and advisor.

Related Plant Science Programs

- Bachelor of Science or Bachelor of Arts in Plant Science (p. 248)
- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)

Environmental Horticulture Minor

The environmental horticulture minor helps students who seek employment opportunities associated with plant science, landscape, and nursery horticulture. The minor enables students to focus on a specialization area or to sample courses from other areas of environmental horticulture. Degree-seeking students at off-campus locations can also complete this minor.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15
- **Related Plant Science Programs**

Specific courses for the minor must be approved in writing by the academic advisor and the undergraduate coordinator at least one semester before graduation.

Required Courses

Code	Title	Credits
ORH 3513C	Environmental Plant Identification and Use	3
Select at least two:		6-8
EVR 3323	Introduction to Ecosystem Restoration	
ORH 3253C	Introductory Nursery Management	
ORH 3773	Public Gardens	
& 3773L	and Public Gardens Laboratory	
ORH 4236C	Ornamental Landscape Management	
ORH 4804	Annual and Perennial Gardening	
& 4804L	and Annual and Perennial Gardening Laboratory	
PLS 3223	Plant Propagation	
& 3223L	and Plant Propagation Laboratory	
Select one:		4-6
PLS 4242C	Micropropagation of Horticultural Crops	
Any ORH course offered at a UF campus to complete 15 minimum credits		

Related Plant Science Programs

- Bachelor of Science or Bachelor of Arts in Plant Science (p. 248)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Environmental Management in Agriculture and Natural Resources | Interdisciplinary Studies

Using an interdisciplinary approach, students in this major develop the scientific and technical foundation needed to integrate and communicate the diverse environmental issues associated with urban, agricultural, and natural ecosystems. Environmental Management students study hydrology, soil science, pest management, water resources, ecology, and natural resource policy.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **School:** Natural Resources and Environment (p. 1356)
- **Degree:** Bachelor of Science

- **Credits for Degree:** 120
- **Additional Information**
- **Related Environmental Management in Agriculture and Natural Resources Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major is for students who desire education in environmental management with substantial emphasis on agriculture and natural resources.

Graduates will find employment with agricultural producers, consulting companies and government agencies that are involved in maintaining a sustainable environment.

Related Environmental Management in Agriculture and Natural Resources Programs

- Bachelor of Science in Environmental Management in Agriculture and Natural Resources, UF Online (p. 133)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=309999&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 6 critical-tracking courses, excluding labs: AEC 3030C or SPC 2608, BSC 2005/BSC 2005L or BSC 2010/BSC 2010L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2233, STA 2023
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological or Physical Sciences)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		2
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Composition; Writing Requirement		3
	Credits	16-17
Semester Three		
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
Select one:		4
BSC 2005	Biological Sciences	
& 2005L	and Laboratory in Biological Sciences (**Critical Tracking**; Gen Ed Biological Sciences)	
BSC 2010	Integrated Principles of Biology 1	
& 2010L	and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	
GLY 2030C	Environmental and Engineering Geology (Gen Ed Physical Sciences)	3
Select one:		3
PHY 2020	Introduction to Principles of Physics (Gen Ed Physical Sciences)	
PHY 2004	Applied Physics 1 (Gen Ed Physical Sciences)	
Elective		3
	Credits	16
Semester Four		
ALS 3133	Agricultural and Environmental Quality (Gen Ed Physical Sciences)	3
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Electives		4
Select one:		3
Gen Ed Humanities		
Gen Ed Social and Behavioral Sciences		
	Credits	13
Semester Five		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
ALS 3153	Agricultural Ecology	3
SWS 3022	Introduction to Soils in the Environment (Gen Ed Physical Sciences)	3
Approved elective		3
	Credits	12
Semester Six		
AEB 3133	Principles of Agribusiness Management	3-4
or MAN 3025	or Principles of Management	
Select one:		3
ENY 3005	Principles of Entomology	
& 3005L	and Principles of Entomology Laboratory	
IPM 3022	Fundamentals of Pest Management	
SWS 4244	Wetlands	3
Approved elective		3

Elective		3
	Credits	15-16
Summer After Semester Six		
SWS 4905 or SWS 4941	Individual Work or Full-time Practical Work Experience in Soil and Water Science	3
Approved elective		3
	Credits	6
Semester Seven		
AOM 4643	Environmental Hydrology: Principles and Issues	3
FNR 4660	Natural Resource Policy and Economics	3
SWS 4720C	GIS in Soil and Water Science	3
Approved elective		3
Elective		3
	Credits	15
Semester Eight		
SWS 4116	Environmental Nutrient Management	3
SWS 4223	Environmental Biogeochemistry	3
Approved electives		6
	Credits	12
	Total Credits	120

Approved Electives

Other electives require advisor approval

Code	Title	Credits
AEB 3114L	Introduction to Agricultural Computer Applications	1
AEB 3144	Introduction to Agricultural Finance	3
AEB 3300	Agricultural and Food Marketing	3
AEB 3341	Selling Strategically	3
AEB 3450	Introduction to Natural Resource and Environmental Economics	3
AEB 3671	Comparative World Agriculture	3
AEB 4123	Agricultural and Natural Resource Law	3
ALS 4161	Exotic Species and Biosecurity Issues	3
ALS 4162	Consequences of Biological Invasions	3
BUL 4310	The Legal Environment of Business	4
ECO 2013	Principles of Macroeconomics	4
ECO 2023	Principles of Microeconomics	4
ENT 3003	Principles of Entrepreneurship	4
ENY 3007C	Life Science	3
ENY 3510C	Turf and Ornamental Entomology	3
ENY 4210	Insects and Wildlife	3
FOR 3214	Fire Ecology and Management	2
FOR 4110	Ecology and Restoration of Longleaf Pine Ecosystems	3
GEB 3373	International Business	4
HOS 3020C	Principles of Horticulture Crop Production	4
MAR 3023	Principles of Marketing	4
PLS 3004C	Principles of Plant Science	3
SWS 2007	The World of Water	3
SWS 3022L	Introduction to Soils in the Environment Laboratory	1
SWS 4207	Sustainable Agricultural and Urban Land Management	3
SWS 4231C	Soil, Water and Land Use	3
SWS 4233	Soil and Water Conservation	3
SWS 4245	Water Resource Sustainability	3
SWS 4303C	Soil Microbial Ecology	3
SWS 4307	Ecology of Waterborne Pathogens	3
SWS 4451	Soil and Water Chemistry	3
SWS 4550	Soils, Water and Public Health	3
SWS 4602C	Soil Physics	3
SWS 4715C	Environmental Pedology	4
SWS 4932	Special Topics in Soil and Water Science (Hydric Soils)	2
SWS 4932	Special Topics in Soil and Water Science (Forest and Soil Ecosystem Services)	3

SWS 4932	Special Topics in Soil and Water Science (Environmental Techniques; 2 live labs at selected locations)	3
WIS 2552	Biodiversity Conservation: Global Perspectives	3
WIS 3401	Wildlife Ecology and Management	3
WIS 4427C	Wildlife Habitat Management	3
WIS 4934	Topics in Wildlife Ecology and Conservation (Natural Resource Ecology)	3

Academic Learning Compact

The interdisciplinary major in environmental management in agriculture provides students with the scientific and technical foundation to integrate and communicate the diverse environmental issues associated with agriculture and natural resources. Students will be able to deal in an informed manner with the agricultural regulations and permitting requirements established by various agencies and jurisdictions, and students will achieve an appreciation for the complexities of agricultural practices. Students will learn to integrate, balance and communicate the mix of agricultural and environmental issues that need to be addressed in modern society.

Before Graduating Students Must

- Complete an approved senior-year research project, SWS 4905, related to management and science skills.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Appraise similarities between agronomic production and environmental protection issues.
2. Describe the role of soil and water in transport of contaminants in ecosystems and illustrate the interconnectedness of ecosystems and ecosystem components with specific examples.

Critical Thinking

3. Cite specific examples of natural resources and environmental public policy issues and identify contending stakeholder interests with respect to each issue.
4. Develop a plan for the analysis of an environmental / agricultural study using geographic information systems software.
5. Critically evaluate natural resource policies using basic economic tools and applying ecological, social and political criteria.

Communication

6. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEB 3133					I	
AEC 3030C						I, R, A
AEC 3033C						I, R, A
ALS 3133	I, A	I	I			
AOM 4643	R	R		I		
FNR 4660			R, A		R, A	R
SWS 3022		I				
SWS 4116	R					R
SWS 4223	R	R, A				R
SWS 4720C				R, A		R

Assessment Types

- Projects
- Papers
- Presentations
- Exams

Environmental Management in Agriculture and Natural Resources | Interdisciplinary Studies UF Online

This degree program uses an interdisciplinary approach to provide the scientific and technical foundation needed to integrate and communicate the diverse environmental issues associated with urban, agricultural, and natural ecosystems. Students develop an understanding of the best use of our natural resources for their social and economic benefits while protecting associated resource values, property rights and the environment. This degree provides a solid grounding in the areas of hydrology, soil science, pest management, water resources, and agricultural ecology.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **School:** Natural Resources and Environment (p. 1356)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Environmental Management in Agriculture and Natural Resources Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major is for students who desire education in environmental management with substantial emphasis on agriculture and natural resources.

Graduates will find employment with agricultural producers, consulting companies and government agencies that are involved in maintaining a sustainable environment.

Related Environmental Management in Agriculture and Natural Resources Programs

- Bachelor of Science in Environmental Management in Agriculture and Natural Resources (p. 128)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=309999&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 6 critical-tracking courses, excluding labs: AEC 3030C or SPC 2608, BSC 2005/BSC 2005L or BSC 2010/BSC 2010L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2233, STA 2023
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- 2.0 GPA required for all critical-tracking courses
- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological or Physical Sciences)	4
State Core Gen Ed Composition (Writing Requirement)		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		2
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Composition (Writing Requirement)		3
	Credits	16-17
Semester Three		
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
Select one:		4
BSC 2005 & 2005L	Biological Sciences and Laboratory in Biological Sciences (**Critical Tracking**; Gen Ed Biological Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	
GLY 2030C	Environmental and Engineering Geology (Gen Ed Physical Sciences)	3
Select one:		3
PHY 2020	Introduction to Principles of Physics (Gen Ed Physical Sciences)	
PHY 2004	Applied Physics 1 (Gen Ed Physical Sciences)	
Elective		3
	Credits	16
Semester Four		
ALS 3133	Agricultural and Environmental Quality (Gen Ed Physical Sciences)	3
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Select one:		3
Gen Ed Humanities		
Gen Ed Social and Behavioral Sciences		
Electives		4
	Credits	13
Semester Five		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
ALS 3153	Agricultural Ecology	3
SWS 3022	Introduction to Soils in the Environment (Gen Ed Physical Sciences)	3

Approved elective		3
	Credits	12
Semester Six		
AEB 3133 or MAN 3025	Principles of Agribusiness Management or Principles of Management	3-4
Select one:		3
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	
IPM 3022	Fundamentals of Pest Management	
SWS 4244	Wetlands	3
Approved elective		3
Elective		3
	Credits	15-16
Summer After Semester Six		
SWS 4905 or SWS 4941	Individual Work or Full-time Practical Work Experience in Soil and Water Science	3
Approved elective		3
	Credits	6
Semester Seven		
AOM 4643	Environmental Hydrology: Principles and Issues	3
FNR 4660	Natural Resource Policy and Economics	3
SWS 4720C	GIS in Soil and Water Science	3
Approved elective		3
Elective		3
	Credits	15
Semester Eight		
SWS 4116	Environmental Nutrient Management	3
SWS 4223	Environmental Biogeochemistry	3
Approved electives		6
	Credits	12
	Total Credits	120

Approved Electives

Other electives require advisor approval

Code	Title	Credits
AGG 4502	Nanotechnology in Food, Agriculture, and Environment	3
AEB 2014	Economic Issues, Food and You	3
AEB 3671	Comparative World Agriculture	3
ALS 4162	Consequences of Biological Invasions	3
BUL 4310	The Legal Environment of Business	4
ECO 2013	Principles of Macroeconomics	4
ECO 2023	Principles of Microeconomics	4
ENT 3003	Principles of Entrepreneurship	4
ENY 3007C	Life Science	3
GEB 3373	International Business	4
MAR 3023	Principles of Marketing	4
SWS 2007	The World of Water	3
SWS 4207	Sustainable Agricultural and Urban Land Management	3
SWS 4233	Soil and Water Conservation	3
SWS 4800	Environmental Soil and Water Monitoring Techniques	3
WIS 4934	Topics in Wildlife Ecology and Conservation	3

Academic Learning Compact

The interdisciplinary major in environmental management in agriculture provides students with the scientific and technical foundation to integrate and communicate the diverse environmental issues associated with agriculture and natural resources. Students will be able to deal in an informed manner with the agricultural regulations and permitting requirements established by various agencies and jurisdictions, and students will achieve an appreciation for the complexities of agricultural practices. Students will learn to integrate, balance and communicate the mix of agricultural and environmental issues that need to be addressed in modern society.

Before Graduating Students Must

- Complete an approved senior-year research project, SWS 4905, related to management and science skills.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Appraise similarities between agronomic production and environmental protection issues.
2. Describe the role of soil and water in transport of contaminants in ecosystems and illustrate the interconnectedness of ecosystems and ecosystem components with specific examples.

Critical Thinking

3. Cite specific examples of natural resources and environmental public policy issues and identify contending stakeholder interests with respect to each issue.
4. Develop a plan for the analysis of an environmental / agricultural study using geographic information systems software.
5. Critically evaluate natural resource policies using basic economic tools and applying ecological, social and political criteria.

Communication

6. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEB 3133					I	
AEC 3030C						I, R, A
AEC 3033C						I, R, A
ALS 3133	I, A	I	I			
AOM 4643	R	R		I		
FNR 4660			R, A		R, A	R
SWS 3022		I				
SWS 4116	R					R
SWS 4223	R	R, A				R
SWS 4720C				R, A		R

Assessment Types

- Projects
- Papers
- Presentations
- Exams

Extension Education Minor

This minor supplements the extension education major and prepares students for careers in the cooperative extension service. The minor offers coursework in nonformal and formal educational methods, adult education, leadership, youth programs, and communication methods along with field experience.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15
- **Related Extension Education Programs**

With advisor approval, all undergraduates in the College of Agricultural and Life Sciences are eligible for this minor. Students in other colleges can also enroll with approval of the Department of Agricultural Education and Communication.

Required Courses

Code	Title	Credits
AEC 3209	Instructional and Event Planning in Agricultural and Life Sciences	3
or AEC 4200	Teaching Methods in Agricultural Education	
AEC 3313	Development and Role of Extension Education	3
AEC 4500	Program Development and Evaluation	3
or FYC 4622	Planning and Evaluating Family, Youth and Community Science Programs	
Approved electives		6
Total Credits		15

Approved Electives

Code	Title	Credits
AEC 3065	Issues in Agricultural and Life Sciences	3
AEC 3073	Intercultural Communication	3
AEC 3413	Working with People: Interpersonal Leadership Skills	3
AEC 3414	Leadership Development	3
AEC 4031	The Communication Process in Agricultural and Life Sciences	3
AEC 4052	Communication Campaign Strategies in Agricultural and Life Sciences	3
AEC 4417	Leadership for Personal and Organizational Change	3
AEC 4434	Communication and Leadership in Groups and Teams	3
AEC 4944	Cooperative Extension Internship (only three credits count toward the minor)	4-6
FYC 4408	Organizational Leadership for Nonprofits	3

Related Extension Education Programs

- Bachelor of Science in Agricultural Education and Communication (p. 46)

Family Life Education Certificate

This certificate prepares students to become certified family life educators. This national certification (CFLE) through the National Council on Family Relations provides higher-level knowledge and skills for working with families in prevention-oriented educational programs.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 39 | Completed with minimum grades of C
- **Contact:** Email (sdsmith@ufl.edu) | 352.273.3537
- **Related Family Life Education Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The certificate can be completed as part of the family, youth and community sciences major and is intended to provide an advantage in today's competitive job market. Courses in 10 key areas of family life and an internship prepare students to offer specialized programs to families.

Students must be admitted to the FYCS major and must maintain all required academic progress standards for the major. FYC 3001 is a prerequisite or corequisite for many of the required courses.

Required Courses

Code	Title	Credits
ANT 2301	Human Sexuality and Culture	3
EDF 3110	Human Growth and Development	3
FYC 3101	Parenting and Family Development	3
FYC 3112	Contemporary Family Problems and Interventions	3
FYC 3201	Foundations of Youth Development	3
FYC 4003	Personal and Family Financial Counseling	3
FYC 4212	Contemporary Youth Problems and Solutions	3
FYC 4503	Methods of Family Life Education	3
FYC 4622	Planning and Evaluating Family, Youth and Community Science Programs	3
FYC 4660	Family Policy	3

SDS 4410	Interpersonal Communication Skills	3
SYG 2430	Marriage and Family	3
FYC 4941	Practicum in Family, Youth and Community Sciences [1]	3
Total Credits		39

[1] Minimum 240 clock hours in a family life education setting, with a grade of S.

Related Family Life Education Programs

- Bachelor of Science in Family, Youth and Community Sciences (p. 138)
- Family, Youth and Community Sciences minor (p. 141)

Family, Youth and Community Sciences

This social science major prepares students to address predictable human developmental changes, unpredictable events such as natural disasters, and persistent problems such as poverty and nutrition. Family, Youth and Community Sciences students study sociology, psychology, and economics as well as advanced topics in youth, family, and community development.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Family, Youth and Community Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This interdisciplinary applied social science program provides the general and technical education necessary for graduates to enter careers in human services, including public, private, nonprofit and for-profit organizations. This includes family life education, youth development, human services, community development and extension education. Students receive the training needed to understand and help youth, families and communities by taking foundation courses in sociology, psychology and economics as well as advanced courses in youth, family and community development.

Students must earn a minimum grade of C in all critical-tracking courses, 3000/4000-level core courses and specialization elective, which must be at the 3000/4000-level. A 2.5 GPA in the core courses is required for graduation.

Related Family, Youth and Community Sciences Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Family, Youth and Community Sciences minor (p. 141)
- Family Life Education certificate (p. 137)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=190707&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses, excluding labs, with a minimum grade of C: AEB 2014 or ECO 2013 or ECO 2023, BSC 2005/BSC 2005L, PSY 2012, STA 2023, SYG 2000
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding lab, with minimum grade of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs, with minimum grades of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding lab, with minimum grade of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs, with minimum grades of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2005 & 2005L	Biological Sciences and Laboratory in Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
	Credits	13
Semester Two		
Select one:		3-4
MAC 1147	Precalculus Algebra and Trigonometry (State Core Gen Ed Mathematics (p. 23))	
MAC 1140	Precalculus Algebra (State Core Gen Ed Mathematics (p. 23))	
MAC 1105	Basic College Algebra (State Core Gen Ed Mathematics (p. 23))	
SYG 2000	Principles of Sociology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
Electives		6
Gen Ed Physical Sciences		3
	Credits	15-16
Semester Three		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
PSY 2012	General Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	3
Gen Ed Composition		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Semester Four		
Select one:		3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	
ENC 2210	Technical Writing	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Biological or Physical Sciences		3
Electives		4
	Credits	13

Semester Five		
FYC 3001	Principles of Family, Youth and Community Sciences (Gen Ed Social and Behavioral Sciences)	3
Select one:		3
FYC 3101	Parenting and Family Development	
SYG 2430	Marriage and Family (Gen Ed Social and Behavioral Sciences and Diversity)	
FYC 3201	Foundations of Youth Development	3
FYC 4622	Planning and Evaluating Family, Youth and Community Science Programs	3
Minor or Specialization		3
	Credits	15
Semester Six		
FYC 3401	Introduction to Social and Economic Perspectives on the Community	3
FYC 3112 or FYC 4212	Contemporary Family Problems and Interventions or Contemporary Youth Problems and Solutions	3
FYC 4801	Applied Social Research Methods	4
FYC course		3
	Credits	13
Summer After Semester Six		
FYC course		3
Minor or Specialization		3
	Credits	6
Semester Seven		
Select one:		3
FYC 3112	Contemporary Family Problems and Interventions	
FYC 4212	Contemporary Youth Problems and Solutions	
FYC 4126	Urban and Rural America in Transition	
FYC 4931	Family, Youth, and Community Sciences Professional Development	3
FYC course		3
Specialization elective (3000/4000 level)		3
Minor or Specialization		3
	Credits	15
Semester Eight		
FYC 4941	Practicum in Family, Youth and Community Sciences	3
FYC course		3
Specialization elective		3
Minor or Specialization		6
	Credits	15
	Total Credits	120

Specialization electives must be at the 3000/4000 level and students must attain minimum grades of C.

Academic Learning Compact

This major takes an interdisciplinary approach to the applied social sciences and prepares students for a career in professions that strengthen families, children, youth and communities. Students' knowledge and skills will be developed through foundation courses in sociology, psychology and economics; through advanced courses in family, youth and community development; and through specialized courses in prevention and intervention. Students will be able to evaluate strategies, integrate knowledge of ethical standards and use professional skills for handling contemporary problems.

Before Graduating Students Must

- Pass an exam on fundamental concepts given as part of FYC 4931.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty committee.
- Complete a final project in FYC 4931, including a written report and oral presentation.
- Complete the practicum course FYC 4941 with performance evaluations completed by agency supervisors.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply the guiding framework of human ecology and other related theories to contribute to positive outcomes for diverse families, youth and communities at home and abroad.
2. Apply strategies for prevention and intervention in contemporary family, youth and community problems and issues.

Critical Thinking

3. Apply current research findings relevant to families, youth and communities.
4. Integrate professional skills, ethical standards and knowledge needed to participate in and to provide leadership in civic and professional life.

Communication

5. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences and in family, youth and community sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
AEC 3030C					I
AEC 3033C					I
FYC 3001	I	I	I		
FYC 3101 or SYG 2403	I	R	I		R
FYC 3112	R	R	R		A
FYC 3201	I	I	I		R
FYC 3401	I	I	I		R
FYC 4126	R	R			
FYC 4212	R	R	R		A
FYC 4622		A	R		R
FYC 4801	R		A	R	
FYC 4931	A				
FYC 4941				A	R

Assessment Types

- Group project
- Research project
- Exams
- Papers
- Student practicum
- Self-assessment

Family, Youth and Community Sciences Minor

This minor introduces the core areas of family, youth and community, and is particularly useful to students whose career plans include working with people in a variety of settings.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Family, Youth and Community Sciences Programs**

Required Courses

Code	Title	Credits
FYC 3001	Principles of Family, Youth and Community Sciences	3
FYC 3101	Parenting and Family Development	3

or FYC 3112	Contemporary Family Problems and Interventions	
FYC 3201	Foundations of Youth Development	3
FYC 3401	Introduction to Social and Economic Perspectives on the Community	3
FYCS course or one course from approved area of specialization (AOS) courses. [1]		3
Total Credits		15

[1] Students must meet any prerequisites. See an FYCS advisor for more information.

Related Family, Youth and Community Sciences Programs

- Bachelor of Science in Family, Youth and Community Sciences (p. 138)
- Family Life Education certificate (p. 137)

Fisheries and Aquatic Sciences Minor

This minor introduces the basic principles of fisheries science, fish biology, aquatic plant biology and management, aquaculture, and related global issues.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C and no S-U
- **Related Marine Sciences Programs**

Students applying for the minor must obtain written approval from the undergraduate coordinator for fisheries and aquatic sciences at least two semesters before graduation.

Requirements

- Complete a minimum of nine credits at UF
- Complete a minimum of nine FAS credits at the 3000 level or above
  - FAS 4905 cannot be used to satisfy this requirement
  - Two credits maximum of FAS 4933 can apply toward this requirement
- Complete at least six credits, as approved by the FAS undergraduate coordinator
  - These may include FAS, FNR, GLY, OCE, SWS, VME, WIS and/or ZOO courses
  - Three credits maximum of FAS 4905 can apply toward this requirement
  - One course maximum, or three credits, of scuba coursework can apply toward this requirement; approved courses include FAS 4932 Scientific Diver and FAS 4932 Research Dive Master.

Related Marine Sciences Programs

- Bachelor of Science in Marine Sciences: Interdisciplinary Studies, CALS (p. 218)
- Bachelor of Science in Marine Sciences: Interdisciplinary Studies, CLAS (p. 842)

Food and Resource Economics

Through curriculum and experiential learning, students develop the skills to analyze complex situations such as the allocation of natural resources to meet the needs of people in local, state, national, and global communities. Food and Resource Economics students study sales, finance, marketing, management, environmental policy, law, international trade, math and economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Food and Agribusiness Marketing and Management (p. 144) | International Food and Resource Economics (p. 147)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Food and Resource Economics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Graduates choose from a vast number of career opportunities, including sales, marketing, management, environmental policy, international trade, international marketing, economic analysis, natural resource management and human resource managements.

Students who have completed 30 credits but fewer than 60 are required to complete mathematics through precalculus (MAC 1147 or equivalent) before admission to the college.

Students who have completed 60 or more credits are required to have completed calculus (MAC 2233 or equivalent), statistics (STA 2023 or equivalent), financial accounting (ACG 2021 or equivalent) and macroeconomics (ECO 2013 or equivalent) with minimum grades of C before admission to the college.

Students should consult an advisor for approval of electives.

Related Food and Resource Economics Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Food and Resource Economics minor (p. 151)

Academic Learning Compact

Students will learn to apply a conceptual framework using economic reasoning and generally accepted economic principles to problem solving. They will also learn to analyze and interpret economic data, and to critically evaluate economic information in media and politics.

Before Graduating Students Must

- Complete AEB 4325 for the food and agribusiness management and marketing specialization, or
  Complete AEB 4343 for the international food and resource economics specialization
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental micro- and macroeconomic principles.
2. Explain the basic role of marketing, management and finance in firm-level decision making.

Critical Thinking

3. Analyze and interpret economic data, critically evaluating economic information and economic policies.
4. Develop a business plan, based on a projected marketing strategy, assessing historic financial statements and projecting cash flows.

Communication

5. Communicate effectively in written form in a manner appropriate in economics and business.
6. Communicate orally (including visual aids) in an effective manner appropriate in economics and business.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEB 3103			I			
AEB 3133	R	R	R	I		
AEB 3144		R		R		
AEB 3300	I	I	I			
AEB 4138				A	R	A
AEB 4242	A		R			R
AEB 4325	R			R	R	
AEB 4342		A	A		A	
AEC 3030C						I
AEC 3033C					I	

Assessment Types

- Case studies
- Presentations
- Exams

Food and Resource Economics | Food and Agribusiness Marketing and Management

Through curriculum and experiential learning, students develop the skills to analyze complex situations such as the allocation of natural resources to meet the needs of people in local, state, national, and global communities. Food and Resource Economics students study sales, finance, marketing, management, environmental policy, law, international trade, math and economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Food and Agribusiness Marketing and Management (p. 144) | International Food and Resource Economics (p. 147)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Food and Resource Economics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Graduates choose from a vast number of career opportunities, including sales, marketing, management, environmental policy, international trade, international marketing, economic analysis, natural resource management and human resource managements.

Students who have completed 30 credits but fewer than 60 are required to complete mathematics through precalculus (MAC 1147 or equivalent) before admission to the college.

Students who have completed 60 or more credits are required to have completed calculus (MAC 2233 or equivalent), statistics (STA 2023 or equivalent), financial accounting (ACG 2021 or equivalent) and macroeconomics (ECO 2013 or equivalent) with minimum grades of C before admission to the college.

Students should consult an advisor for approval of electives.

Related Food and Resource Economics Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Food and Resource Economics minor (p. 151)

Food and Agribusiness Marketing and Management

The specialization is for students interested in food and fiber systems management, marketing, finance and international business and employment opportunities and sales and managerial positions in agribusiness firms, commercial banks, the Farm Credit Service, insurance and appraisal firms.

Critical Tracking

Note that critical tracking is the same for both specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Students also must earn a minimum GPA of 2.25 in all AEB courses.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=010103&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 4 critical courses: ACG 2021, ECO 2013, MAC 2233, STA 2023
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete MAC 2233
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BSC 2005 & 2005L	Biological Sciences and Laboratory in Biological Sciences	
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	
FOS 3042	Introductory Food Science	
FOR 3153C	Forest Ecology	
PLS 3004C	Principles of Plant Science	
WIS 2552	Biodiversity Conservation: Global Perspectives (Gen Ed Biological Sciences) [1]	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
MAC 1147	Precalculus Algebra and Trigonometry (Gen Ed Mathematics; if needed, or select one elective)	4
State Core Gen Ed Composition (p. 23); Writing Requirement [2]		3
Elective		1
	Credits	15-16
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Gen Ed Composition; Writing Requirement [2]		3
State Core Gen Ed Humanities (p. 23) [2]		3
Elective		3
	Credits	15
Semester Three		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	4
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
State Core Gen Ed Biological or Physical Sciences (p. 23) [1]		3
Select one:		3

Gen Ed Social and Behavioral Sciences		
Gen Ed Humanities [2]		
	Credits	16
Semester Four		
ACG 2071	Introduction to Managerial Accounting	3-4
or AEB 3122	or Financial Planning for Agribusiness	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	4
AEC 3030C	Effective Oral Communication	3
Gen Ed Physical Sciences [1]		3
Elective		1
	Credits	14-15
Semester Five		
AEB 2451	Economics of Resource Use	3
AEB 3300	Agricultural and Food Marketing	3
AEB 3510	Quantitative Methods in Food and Resource Economics	3
AEB 3935	Food and Resource Economics Seminar	1
Electives		5
	Credits	15
Semester Six		
AEB 3133	Principles of Agribusiness Management	3
AEB 3144	Introduction to Agricultural Finance	3
AEB 3550	Agricultural Data Analysis in Food and Resource Economics	3
Electives		6
	Credits	15
Semester Seven		
AEB 4138	Advanced Agribusiness Management	3
AEB 4242	International Trade Policy in Agriculture	3
Select one:		3-4
AEB 4334	Agricultural Price Analysis and Consumer Behavior	
ECO 3101	Intermediate Microeconomics ((students pursuing graduate studies should take this course))	
Approved Food and agribusiness marketing and management electives		6
	Credits	15-16
Semester Eight		
AEB 3281	Agricultural Macroeconomics	3
AEB 4325	Contemporary Issues in Agribusiness Management	3
AEB 4342	Agribusiness and Food Marketing Management	3
Approved Food and agribusiness marketing and management elective		3
Elective		3
	Credits	15
	Total Credits	120

1 At least one science course (e.g., SWS 3022L) must include a laboratory component.

2 The order in which these courses are taken is not important.

Approved Electives

Code	Title	Credits
AEB 3315	Futures Markets and Risk Management in Agriculture	3
AEB 3341	Selling Strategically	3
AEB 3671	Comparative World Agriculture (Gen Ed Social and Behavioral Sciences with International)	3
AEB 4309	Food Wholesaling and Retail Marketing	3
AEB 4343	International Agribusiness Marketing (Gen Ed Social and Behavioral Sciences)	3
AEB 4380	Agricultural Marketing Strategies	3
AEB 4424	Human Resources Management in Agribusiness	3
AEC 3414	Leadership Development	3
ALS 4404	International Studies	3
ENT 3003	Principles of Entrepreneurship	4

Academic Learning Compact

Students will learn to apply a conceptual framework using economic reasoning and generally accepted economic principles to problem solving. They will also learn to analyze and interpret economic data, and to critically evaluate economic information in media and politics.

Before Graduating Students Must

- Complete AEB 4325 for the food and agribusiness management and marketing specialization, or
  Complete AEB 4343 for the international food and resource economics specialization
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental micro- and macroeconomic principles.
2. Explain the basic role of marketing, management and finance in firm-level decision making.

Critical Thinking

3. Analyze and interpret economic data, critically evaluating economic information and economic policies.
4. Develop a business plan, based on a projected marketing strategy, assessing historic financial statements and projecting cash flows.

Communication

5. Communicate effectively in written form in a manner appropriate in economics and business.
6. Communicate orally (including visual aids) in an effective manner appropriate in economics and business.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEB 3103			I			
AEB 3133	R	R	R	I		
AEB 3144		R		R		
AEB 3300	I	I	I			
AEB 4138				A	R	A
AEB 4242	A		R			R
AEB 4325	R			R	R	
AEB 4342		A	A		A	
AEC 3030C						I
AEC 3033C					I	

Assessment Types

- Case studies
- Presentations
- Exams

Food and Resource Economics | International Food and Resource Economics

Through curriculum and experiential learning, students develop the skills to analyze complex situations such as the allocation of natural resources to meet the needs of people in local, state, national, and global communities. Food and Resource Economics students study sales, finance, marketing, management, environmental policy, law, international trade, math and economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Food and Agribusiness Marketing and Management (p. 144) | International Food and Resource Economics (p. 147)
- **Credits for Degree:** 120

- **Additional Information**
- **Related Food and Resource Economics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Graduates choose from a vast number of career opportunities, including sales, marketing, management, environmental policy, international trade, international marketing, economic analysis, natural resource management and human resource managements.

Students who have completed 30 credits but fewer than 60 are required to complete mathematics through precalculus (MAC 1147 or equivalent) before admission to the college.

Students who have completed 60 or more credits are required to have completed calculus (MAC 2233 or equivalent), statistics (STA 2023 or equivalent), financial accounting (ACG 2021 or equivalent) and macroeconomics (ECO 2013 or equivalent) with minimum grades of C before admission to the college.

Students should consult an advisor for approval of electives.

Related Food and Resource Economics Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Food and Resource Economics minor (p. 151)

International Food and Resource Economics

This specialization provides a broad background in economic theory and international development and policy. Many who choose this specialization are preparing for graduate school or for careers working for international organizations and governments.

Critical Tracking

Note that critical tracking is the same for both specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Students also must earn a minimum GPA of 2.25 in all AEB courses.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=010103&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 4 critical courses: ACG 2021, ECO 2013, MAC 2233, STA 2023
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete MAC 2233
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BSC 2005	Biological Sciences	
& 2005L	and Laboratory in Biological Sciences	
ENY 3005	Principles of Entomology	
& 3005L	and Principles of Entomology Laboratory	
FOS 3042	Introductory Food Science	
FOR 3153C	Forest Ecology	
PLS 3004C	Principles of Plant Science	
WIS 2552	Biodiversity Conservation: Global Perspectives (Gen Ed Biological Sciences) [1]	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
MAC 1147	Precalculus Algebra and Trigonometry (Gen Ed Mathematics; if needed, or select one elective)	4
State Core Gen Ed Composition (p. 23); Writing Requirement [2]		3
Elective		1
	Credits	15-16
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Gen Ed Composition; Writing Requirement [2]		3
State Core Gen Ed Humanities (p. 23) [2]		3
Elective		3
	Credits	15
Semester Three		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	4
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
State Core Gen Ed Biological or Physical Sciences (p. 23) [1]		3
Select one:		3
Gen Ed Social and Behavioral Sciences		
Gen Ed Humanities [2]		
	Credits	16
Semester Four		
ACG 2071	Introduction to Managerial Accounting	3-4
or AEB 3122	or Financial Planning for Agribusiness	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	4
AEC 3030C	Effective Oral Communication	3
Gen Ed Physical Sciences [1]		3
Elective		1
	Credits	14-15
Semester Five		
AEB 2451	Economics of Resource Use	3
AEB 3300	Agricultural and Food Marketing	3
AEB 3510	Quantitative Methods in Food and Resource Economics	3
AEB 3935	Food and Resource Economics Seminar	1
Electives		6
	Credits	16

Semester Six		
AEB 3133	Principles of Agribusiness Management	3
AEB 3144	Introduction to Agricultural Finance	3
AEB 3550	Agricultural Data Analysis in Food and Resource Economics	3
AEB 3671	Comparative World Agriculture (Gen Ed Social and Behavioral Sciences with International)	3
Elective		3
	Credits	15
Semester Seven		
Select one:		3-4
AEB 4334	Agricultural Price Analysis and Consumer Behavior	
ECO 3101	Intermediate Microeconomics (students pursuing graduate studies should take this course)	
AEB 4242	International Trade Policy in Agriculture (Gen Ed Social and Behavioral Sciences)	3
AEB 4343	International Agribusiness Marketing (Gen Ed Social and Behavioral Sciences)	3
Approved International electives		6
	Credits	15-16
Semester Eight		
AEB 3281	Agricultural Macroeconomics	3
ECO 3704	International Trade	4
Electives		4
Approved International elective		3
	Credits	14
	Total Credits	120

[1] At least one science course (e.g., SWS 3022L) must include a laboratory component.

[2] The order in which these courses are taken is not important.

Approved Electives

Code	Title	Credits
AEB 4282	International Humanitarian Assistance (Gen Ed Social and Behavioral Sciences with International)	3
AEB 4283	International Development Policy (Gen Ed Social and Behavioral Sciences)	3
ALS 4404	International Studies	1-3
URP 3001	Cities of the World (Gen Ed Social and Behavioral Sciences with International)	3
Any 3000 level or above course in LAS, EUS or AFS		3

Academic Learning Compact

Students will learn to apply a conceptual framework using economic reasoning and generally accepted economic principles to problem solving. They will also learn to analyze and interpret economic data, and to critically evaluate economic information in media and politics.

Before Graduating Students Must

- Complete AEB 4325 for the food and agribusiness management and marketing specialization, or
  Complete AEB 4343 for the international food and resource economics specialization
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental micro- and macroeconomic principles.
2. Explain the basic role of marketing, management and finance in firm-level decision making.

Critical Thinking

3. Analyze and interpret economic data, critically evaluating economic information and economic policies.
4. Develop a business plan, based on a projected marketing strategy, assessing historic financial statements and projecting cash flows.

Communication

5. Communicate effectively in written form in a manner appropriate in economics and business.
6. Communicate orally (including visual aids) in an effective manner appropriate in economics and business.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEB 3103			I			
AEB 3133	R	R	R	I		
AEB 3144		R		R		
AEB 3300	I	I	I			
AEB 4138				A	R	A
AEB 4242	A		R			R
AEB 4325	R			R	R	
AEB 4342		A	A		A	
AEC 3030C						I
AEC 3033C					I	

Assessment Types

- Case studies
- Presentations
- Exams

Food and Resource Economics Minor

Established in 1870, the mission of the College of Agricultural and Life Sciences is to deliver unsurpassed educational programs that prepare students to address the world's critical challenges related to agriculture, food systems, human well-being, natural resources and sustainable communities.

Contact

2020 McCarty Hall D
P.O. Box 110270
University of Florida
Gainesville, FL 32611-0270
352.392.1963

Map (http://campusmap.ufl.edu/?loc=0498) More Info (http://cals.ufl.edu)

Academic Advising
2020 McCarty Hall D
352.392.1963

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Food and Resource Economics Programs**

The student's academic advisor and the undergraduate coordinator in Food and Resource Economics must approve the courses for the minor at least two semesters before graduation.

AEB 3103 does not apply toward the minor.

Required Courses

Code	Title	Credits
AEB 3510	Quantitative Methods in Food and Resource Economics	3
AEB 3550	Agricultural Data Analysis in Food and Resource Economics	3
AEB 42XX	Food and Resource Economics policy course	3

AEB 4334	Agricultural Price Analysis and Consumer Behavior	3
AEB course (3000/4000 level)		3
Total Credits		15

Related Food and Resource Economics Programs

- Bachelor of Science in Food and Resource Economics (p. 142)

Food Science

This major uses engineering, biological, and physical sciences to study the nature of foods, the causes of food deterioration, the principles underlying food processing, and the development and improvement of foods for consumption. Food Science students study organic and food chemistry, biology, physics, government regulations in the food industry, food engineering, and microbiology.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Food Science and Human Nutrition Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The food science curriculum emphasizes a strong technical background, with elective options important to employment in the food industry, government agencies or as preparation for graduate study. The curriculum is approved by the Institute of Food Technologists (IFT), the professional society of the discipline. Graduates have obtained employment in state, national and international food corporations. Most work in the areas of quality control, technical support and sales, or research and product development.

The curriculum also prepares the student for graduate study. Opportunities to become involved in leadership roles in the FSHN Club and through national competitions are considerable. Internships in Florida food industries may be available, and these provide invaluable experience as well as contacts that can be extremely beneficial when seeking employment.

Related Food Science and Human Nutrition Programs

- Bachelor of Science in Dietetics (p. 110)
- Bachelor of Science in Nutritional Sciences (p. 240)
- Food Science minor (p. 155)
- Nutritional Sciences minor (p. 243)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011001&track=01) may be used for transfer students.

Semester 1

- Complete CHM 2045/CHM 2045L or MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046/CHM 2046L and BSC 2010/BSC 2010L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Humanities (p. 23)		3
Elective		1
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You	
AEB 3103	Principles of Food and Resource Economics	
ECO 2013	Principles of Macroeconomics	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Electives		4
	Credits	14-15
Semester Three		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1 (Gen Ed Physical Sciences)	4
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		1
	Credits	15
Semester Four		
AEB 3114L	Introduction to Agricultural Computer Applications	1
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2210	Organic Chemistry 1 (minimum grade of C within two attempts, including withdrawals) [1]	3
FOS 3042	Introductory Food Science	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Elective		1
	Credits	15
Semester Five		
AEC 3030C	Effective Oral Communication	3

CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
FOS 4722C	Quality Control in Food Systems	3
Elective		4
	Credits	15
Semester Six		
FOS 4311 & 4311L	Food Chemistry and Food Chemistry Laboratory	4
FOS 4731	Government Regulations and the Food Industry	2
HUN 2201	Fundamentals of Human Nutrition	3
MCB 2000 & 2000L	Microbiology and Microbiology Laboratory	4
Elective		3
	Credits	16
Semester Seven		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
AOM 4062	Principles of Food Engineering	4
BCH 3025	Fundamentals of Biochemistry	4
FOS 4321C	Food Analysis	4
	Credits	15
Semester Eight		
FOS 4222 & 4222L	Food Microbiology and Food Microbiology Laboratory	5
FOS 4427C	Principles of Food Processing	4
FOS 4435C	Food Product Development	3
Elective		3
	Credits	15
	Total Credits	120

[1] Take (CHM 2210 and CHM 2211/CHM 2211L) or (MAC 2312 and CHM 2200/CHM 2200L).

Additional electives may be needed to complete the 120 credits required for graduation.

Academic Learning Compact

Food science applies the principles of chemistry, biology, physics and analysis to solve problems related to composition, reactions, processing, quality, safety and packaging of foods. Students will learn to apply principles of microbiology and quality control with regulatory requirements to assure the quality and safety of food products. Emphasis will be placed on food processing and engineering in selecting appropriate methods for commercial food production.

Before Graduating Students Must

- Successfully complete a product development project administered in FOS 4435C, the undergraduate capstone course. The skills to complete the project will have been acquired from the required food science courses. The project is evaluated using a rubric approved by a faculty committee.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply principles of chemistry, biology, physics and analysis to solve problems related to composition, reactions, processing, quality, safety and packaging of foods.
2. Apply principles of microbiology and quality control, along with regulatory requirements, to assure the quality and safety of food products.
3. Apply principles of food processing and engineering to the selection of appropriate methods for commercial food production.

Critical Thinking

4. Analyze and interpret analytical data using knowledge and application of food science, technology and related tools.

Communication

5. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
AEC 3030C					I, R, A
AEC 3033C					I, R, A
AOM 4062			I		
FOS 4222 and 4222L		I, R			
FOS 4311 and 4311L	I, R				
FOS 4321C	R			R	
FOS 4427C			I		
FOS 4435C	R, A	R, A	R, A	R, A	R
FOS 4722C	R	R	R	R	
FOS 4731		R			

Assessment Types

- Food product development project
- Speeches
- Papers

Food Science Minor

Established in 1870, the mission of the College of Agricultural and Life Sciences is to deliver unsurpassed educational programs that prepare students to address the world's critical challenges related to agriculture, food systems, human well-being, natural resources and sustainable communities.

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Map (http://campusmap.ufl.edu/?loc=0498) More Info (http://cals.ufl.edu)

Academic Advising
2020 McCarty Hall D
352.392.1963

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C and a minimum cumulative 2.5 GPA in the minor
- **Related Food Science and Human Nutrition Programs**

The food science minor is open to all students at the university.

Courses for the minor may have prerequisites.

Required Courses

Suggested Courses

More suitable for students with minimal science backgrounds

Code	Title	Credits
FOS 2001	Man's Food	3
FOS 3042	Introductory Food Science	3
FOS 4202	Food Safety and Sanitation	2
FOS 4722C	Quality Control in Food Systems	3
FOS 4731	Government Regulations and the Food Industry	2

FOS 4936	Topics in Food Science (HAACP Systems)	2
Total Credits		15

Optional Courses

More suitable for students with extensive science backgrounds

Code	Title	Credits
AOM 4062	Principles of Food Engineering	4
FOS 4222	Food Microbiology	3
FOS 4222L	Food Microbiology Laboratory	2
FOS 4311	Food Chemistry	3
FOS 4311L	Food Chemistry Laboratory	1
FOS 4321C	Food Analysis	4
FOS 4427C	Principles of Food Processing	4
FOS 4522C	Seafood Technology	3

Related Food Science and Human Nutrition Programs

- Bachelor of Science in Dietetics (p. 110)
- Bachelor of Science in Food Science (p. 152)
- Bachelor of Science in Nutritional Sciences (p. 240)
- Nutritional Sciences minor (p. 243)

Forest Resources and Conservation

Providing students with a solid understanding of ecology, this major prepares students to manage and develop forest areas for economic, recreational, and ecological purposes. Forest Resources and Conservation students study natural resource management and analysis, soil and water sciences, plant identification, law and policy, fire management, and natural resource economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Forest Resources and Conservation
- **Specializations:** Environmental Pre-Law (p. 158) | Forest Business Management | (p. 162) Forest Resource Management (p. 166) | Protected Areas Management (p. 170) | Recreation Resources Management (p. 174) | Urban Forestry (p. 178) | Watershed Science and Management (p. 182)
- **Credits for Degree:** 120
- **Contact:** Email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major)
- **Additional Information**
- **Related Forest Resources and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Forest Resource Management

Accredited by the Society of American Foresters and is for students seeking careers as professional forest resource managers who apply science-based strategies to managing publicly and privately-owned forest lands.

Urban Forestry

Accredited by the Society of American Foresters and is for students with interests in forest management in the typically local-scale forests in urban-suburban landscapes, and at the interface of urban and undeveloped lands.

Environmental Pre-Law

Accredited by the Society of American Foresters and provides a solid basis of forest and natural resources science and management upon which is built a broad introduction to the policies, ethics, and processes affecting the use of natural resources.

Protected Areas Management

Accredited by the Society of American Foresters and is for students interested in managing lands for conservation and restoration purposes, usually on public lands managed by the government or by lands owned by private conservation organizations.

Recreation Resources Management

Accredited by the Society of American Foresters and focuses on the sustainable management of recreation lands as a natural resource and understanding human dimensions as related to their use.

Forest Business Management

Accredited by the Society of American Foresters and gives students a sound background in natural resource management and a broad introduction to business as appropriate for students interested in consulting, real estate or working for forest industry.

Watershed Science and Management

Prepares students to address the many and varied management issues associated with water resources, including wetlands, soils, policy, and water quality.

Related Forest Resources and Conservation Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Forest Resources and Conservation minor (p. 186)
- Bachelor of Science in Natural Resource Conservation (p. 235)

Academic Learning Compact

The forest resources and conservation major provides a broad education in the ecological, economic and social aspects of forest and natural resources and their management. The major also provides national accreditation from the Society of American Foresters.

Before Graduating Students Must

- Pass the forest resources and conservation competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FNR 4040C		
FNR 4623C	Integrated Natural Resource Management	3
FNR 4660	Natural Resource Policy and Economics	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competency in biology/ecology, quantification, policy/administration and management of forest and related natural resources.
2. Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

Critical Thinking

3. Solve novel problems in forest and natural resource management.

Communication

4. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
FNR 3131C	I			I
FNR 3410C	I			
FNR 4343C	R	R		R
FNR 4623C	R		A	A
FNR 4660	I		R	R
FOR 3153C	I	I	R	I
FOR 3162C	R	R		R
FOR 3200C	I	I	I	I
FOR 3202	I		R	R
FOR 3214	R	R	R	R

FOR 3434C	I	I		
FOR 4020			R	R

Assessment Types

- Final group project
- Exams
- Program exit exam

Forest Resources and Conservation | Environmental Pre-Law

Providing students with a solid understanding of ecology, this major prepares students to manage and develop forest areas for economic, recreational, and ecological purposes. Forest Resources and Conservation students study natural resource management and analysis, soil and water sciences, plant identification, law and policy, fire management, and natural resource economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Forest Resources and Conservation
- **Specializations:** Environmental Pre-Law (p. 158) | Forest Business Management | (p. 162) Forest Resource Management (p. 166) | Protected Areas Management (p. 170) | Recreation Resources Management (p. 174) | Urban Forestry (p. 178) | Watershed Science and Management (p. 182)
- **Credits for Degree:** 120
- **Contact:** Email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major)
- **Additional Information**
- **Related Forest Resources and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Forest Resource Management

Accredited by the Society of American Foresters and is for students seeking careers as professional forest resource managers who apply science-based strategies to managing publicly and privately-owned forest lands.

Urban Forestry

Accredited by the Society of American Foresters and is for students with interests in forest management in the typically local-scale forests in urban-suburban landscapes, and at the interface of urban and undeveloped lands.

Environmental Pre-Law

Accredited by the Society of American Foresters and provides a solid basis of forest and natural resources science and management upon which is built a broad introduction to the policies, ethics, and processes affecting the use of natural resources.

Protected Areas Management

Accredited by the Society of American Foresters and is for students interested in managing lands for conservation and restoration purposes, usually on public lands managed by the government or by lands owned by private conservation organizations.

Recreation Resources Management

Accredited by the Society of American Foresters and focuses on the sustainable management of recreation lands as a natural resource and understanding human dimensions as related to their use.

Forest Business Management

Accredited by the Society of American Foresters and gives students a sound background in natural resource management and a broad introduction to business as appropriate for students interested in consulting, real estate or working for forest industry.

Watershed Science and Management

Prepares students to address the many and varied management issues associated with water resources, including wetlands, soils, policy, and water quality.

Related Forest Resources and Conservation Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Forest Resources and Conservation minor (p. 186)
- Bachelor of Science in Natural Resource Conservation (p. 235)

Environmental Pre-Law

This specialization provides a solid basis of forest and natural resources science and management upon which is built a broad introduction to the policies, ethics, and processes affecting the use of natural resources.

Critical Tracking

Note that critical tracking is the same for all specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=030501&track=02) may be used for transfer students.

Semester 1

- Complete 1 of 7 critical-tracking courses: AEB 2014 or ECO 2013 or ECO 2023, AEC 3030C or SPC 2608, AEC 3033C, BSC 2010/BSC 2010L, CHM 1030 or CHM 2045, MAC 1105, STA 2023
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 7 critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3

CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	
CHM 2045	General Chemistry 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
FOR 2662	Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course)	3
Elective		3
	Credits	15
Semester Two		
MAC 1105	Basic College Algebra (**Critical Tracking**; State Core Gen Ed Mathematics)	3
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
FAS 2024	Sustainable Fisheries (recommended elective)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	16
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (**Critical Tracking**; Writing Requirement) [1]	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
FOR 2662	Forests for the Future (recommended, if not already taken) [2]	3
Gen Ed Composition		3
Elective		2
	Credits	14
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
FAS 2024	Sustainable Fisheries (recommended elective, if not already taken)	3
PHY 2020	Introduction to Principles of Physics (recommended; or other Gen Ed Physical Sciences)	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Summer After Semester Four		
FOR 3200C	Foundations of Natural Resources and Conservation (Summer B only)	3
FOR 3434C	Forest Resources Information Systems (Summer B only)	3
	Credits	6
Semester Five		
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FOR 3153C	Forest Ecology	3
Select one:		3
SWS 3022	Introduction to Soils in the Environment	
SUR 3103C	Geomatics	
GIS 3072C	Geographic Information Systems	
Directed elective		1
	Credits	13
Semester Six		
BUL 4310	The Legal Environment of Business	4
CPO 4793	Environmental Politics in the Global South	3
FOR 3162C	Silviculture	4
FOR 3202	Society and Natural Resources	3
	Credits	14
Semester Seven		
AEB 4085	Agricultural Risk Management and the Law	3
AEB 4126 or POT 3503	Agricultural and Natural Resource Ethics or Environmental Ethics and Politics	3
FNR 4660	Natural Resource Policy and Economics	3

FOR 4020	Seminar in Contemporary Issues in Forest Resources and Conservation	1
SUR 4403	Cadastral Principles	3
	Credits	13
Semester Eight		
AEB 4123	Agricultural and Natural Resource Law	3
AEB 4242	International Trade Policy in Agriculture	3
FNR 4343C	Forest Water Resources	3
FNR 4623C	Integrated Natural Resource Management	3
FOR 3214	Fire Ecology and Management	2
FOR 3214L	Fire Ecology and Management Laboratory (optional)	0-1
	Credits	14-15
	Total Credits	120

1 Can substitute ENC 2210 or ENC 3254.

2 Elective: FOR 2662 recommended, if not already taken; or FOR 3004 recommended.

Placement tests and/or prerequisites may be necessary for access to certain courses.

Course availability may necessitate departure from this course sequence. Except for certain courses where sequence is important, successful completion is more important than the sequence in which the courses are taken.

The summer term between the junior and senior year is normally reserved for professional work experience. For questions regarding opportunities, email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major) the SFRC Student Services office.

Academic Learning Compact

The forest resources and conservation major provides a broad education in the ecological, economic and social aspects of forest and natural resources and their management. The major also provides national accreditation from the Society of American Foresters.

Before Graduating Students Must

- Pass the forest resources and conservation competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FNR 4040C		
FNR 4623C	Integrated Natural Resource Management	3
FNR 4660	Natural Resource Policy and Economics	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competency in biology/ecology, quantification, policy/administration and management of forest and related natural resources.
2. Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

Critical Thinking

3. Solve novel problems in forest and natural resource management.

Communication

4. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
FNR 3131C	I			I
FNR 3410C	I			
FNR 4343C	R	R		R
FNR 4623C	R		A	A

FNR 4660	I		R	R
FOR 3153C	I	I	R	I
FOR 3162C	R	R		R
FOR 3200C	I	I	I	I
FOR 3202	I		R	R
FOR 3214	R	R	R	R
FOR 3434C	I	I		
FOR 4020			R	R

Assessment Types

- Final group project
- Exams
- Program exit exam

Forest Resources and Conservation | Forest Business Management

Providing students with a solid understanding of ecology, this major prepares students to manage and develop forest areas for economic, recreational, and ecological purposes. Forest Resources and Conservation students study natural resource management and analysis, soil and water sciences, plant identification, law and policy, fire management, and natural resource economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Forest Resources and Conservation
- **Specializations:** Environmental Pre-Law (p. 158) | Forest Business Management | (p. 162) Forest Resource Management (p. 166) | Protected Areas Management (p. 170) | Recreation Resources Management (p. 174) | Urban Forestry (p. 178) | Watershed Science and Management (p. 182)
- **Credits for Degree:** 120
- **Contact:** Email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major)
- **Additional Information**
- **Related Forest Resources and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Forest Resource Management

Accredited by the Society of American Foresters and is for students seeking careers as professional forest resource managers who apply science-based strategies to managing publicly and privately-owned forest lands.

Urban Forestry

Accredited by the Society of American Foresters and is for students with interests in forest management in the typically local-scale forests in urban-suburban landscapes, and at the interface of urban and undeveloped lands.

Environmental Pre-Law

Accredited by the Society of American Foresters and provides a solid basis of forest and natural resources science and management upon which is built a broad introduction to the policies, ethics, and processes affecting the use of natural resources.

Protected Areas Management

Accredited by the Society of American Foresters and is for students interested in managing lands for conservation and restoration purposes, usually on public lands managed by the government or by lands owned by private conservation organizations.

Recreation Resources Management

Accredited by the Society of American Foresters and focuses on the sustainable management of recreation lands as a natural resource and understanding human dimensions as related to their use.

Forest Business Management

Accredited by the Society of American Foresters and gives students a sound background in natural resource management and a broad introduction to business as appropriate for students interested in consulting, real estate or working for forest industry.

Watershed Science and Management

Prepares students to address the many and varied management issues associated with water resources, including wetlands, soils, policy, and water quality.

Related Forest Resources and Conservation Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Forest Resources and Conservation minor (p. 186)
- Bachelor of Science in Natural Resource Conservation (p. 235)

Forest Business Management

This specialization provides a sound background in natural resource management and a broad introduction to business as appropriate for students interested in consulting, real estate or working for forest industry.

Critical Tracking

Note that critical tracking is the same for all specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=030501&track=02) may be used for transfer students.

Semester 1

- Complete 1 of 7 critical-tracking courses: AEB 2014 or ECO 2013 or ECO 2023, AEC 3030C or SPC 2608, AEC 3033C, BSC 2010/BSC 2010L, CHM 1030 or CHM 2045, MAC 1105, STA 2023
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 7 critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	
CHM 2045	General Chemistry 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
FOR 2662	Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course)	3
Elective		3
	Credits	15
Semester Two		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
MAC 1105	Basic College Algebra (**Critical Tracking**; or higher; State Core Gen Ed Mathematics)	3
FAS 2024	Sustainable Fisheries (recommended elective)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	16
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (**Critical Tracking**; Writing Requirement) [1]	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
FOR 2662	Forests for the Future (recommended, if not already taken) [2]	3
Gen Ed Composition		3
Elective		2
	Credits	14
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
FAS 2024	Sustainable Fisheries (recommended elective, if not already taken)	3
PHY 2020	Introduction to Principles of Physics (Gen Ed Physical Sciences; recommended course)	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Summer After Semester Four		
FOR 3200C	Foundations of Natural Resources and Conservation (Summer B only)	3
FOR 3434C	Forest Resources Information Systems (Summer B only)	3
	Credits	6
Semester Five		
AEB 3133	Principles of Agribusiness Management	3
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FOR 3153C	Forest Ecology	3
	Credits	12
Semester Six		
AEB 3122	Financial Planning for Agribusiness	3
FOR 3162C	Silviculture	4
FOR 3202	Society and Natural Resources	3
FOR 3430C	Forest Mensuration	3
	Credits	13
Semester Seven		
FNR 4624C	Field Operations for Management of Ecosystems	3
FNR 4660	Natural Resource Policy and Economics	3

FOR 4020	Seminar in Contemporary Issues in Forest Resources and Conservation	1
FOR 4621	Forest Economics and Management	4
Approved elective		3
	Credits	14
Semester Eight		
ACG 2021	Introduction to Financial Accounting	4
AEB 4123	Agricultural and Natural Resource Law	3
FNR 4343C	Forest Water Resources	3
FNR 4623C	Integrated Natural Resource Management	3
FOR 3214	Fire Ecology and Management	2
FOR 3214L	Fire Ecology and Management Laboratory (optional)	0-1
	Credits	15-16
	Total Credits	120

[1] Can substitute ENC 2210 or ENC 3254.

[2] Elective: FOR 2662 recommended, if not already taken; or FOR 3004 recommended.

Placement tests and/or prerequisites may be necessary for access to certain courses.

Course availability may necessitate departure from this course sequence. Except for certain courses where sequence is important, successful completion is more important than the sequence in which the courses are taken.

The summer term between the junior and senior year is normally reserved for professional work experience. For questions regarding opportunities, email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major) the SFRC Student Services office.

Academic Learning Compact

The forest resources and conservation major provides a broad education in the ecological, economic and social aspects of forest and natural resources and their management. The major also provides national accreditation from the Society of American Foresters.

Before Graduating Students Must

- Pass the forest resources and conservation competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FNR 4040C		
FNR 4623C	Integrated Natural Resource Management	3
FNR 4660	Natural Resource Policy and Economics	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competency in biology/ecology, quantification, policy/administration and management of forest and related natural resources.
2. Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

Critical Thinking

3. Solve novel problems in forest and natural resource management.

Communication

4. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
FNR 3131C	I			I
FNR 3410C	I			
FNR 4343C	R	R		R

FNR 4623C	R		A	A
FNR 4660	I		R	R
FOR 3153C	I	I	R	I
FOR 3162C	R	R		R
FOR 3200C	I	I	I	I
FOR 3202	I		R	R
FOR 3214	R	R	R	R
FOR 3434C	I	I		
FOR 4020			R	R

Assessment Types

- Final group project
- Exams
- Program exit exam

Forest Resources and Conservation | Forest Resource Management

Providing students with a solid understanding of ecology, this major prepares students to manage and develop forest areas for economic, recreational, and ecological purposes. Forest Resources and Conservation students study natural resource management and analysis, soil and water sciences, plant identification, law and policy, fire management, and natural resource economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Forest Resources and Conservation
- **Specializations:** Environmental Pre-Law (p. 158) | Forest Business Management | (p. 162) Forest Resource Management (p. 166) | Protected Areas Management (p. 170) | Recreation Resources Management (p. 174) | Urban Forestry (p. 178) | Watershed Science and Management (p. 182)
- **Credits for Degree:** 120
- **Contact:** Email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major)
- **Additional Information**
- **Related Forest Resources and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Forest Resource Management

Accredited by the Society of American Foresters and is for students seeking careers as professional forest resource managers who apply science-based strategies to managing publicly and privately-owned forest lands.

Urban Forestry

Accredited by the Society of American Foresters and is for students with interests in forest management in the typically local-scale forests in urban-suburban landscapes, and at the interface of urban and undeveloped lands.

Environmental Pre-Law

Accredited by the Society of American Foresters and provides a solid basis of forest and natural resources science and management upon which is built a broad introduction to the policies, ethics, and processes affecting the use of natural resources.

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Accredited by the Society of American Foresters and is for students interested in managing lands for conservation and restoration purposes, usually on public lands managed by the government or by lands owned by private conservation organizations.

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Forest Business Management

Accredited by the Society of American Foresters and gives students a sound background in natural resource management and a broad introduction to business as appropriate for students interested in consulting, real estate or working for forest industry.

Watershed Science and Management

Prepares students to address the many and varied management issues associated with water resources, including wetlands, soils, policy, and water quality.

Related Forest Resources and Conservation Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Forest Resources and Conservation minor (p. 186)
- Bachelor of Science in Natural Resource Conservation (p. 235)

Forest Resource Management

This specialization is for students seeking careers as professional forest resource managers who apply science-based strategies to managing publicly and privately-owned forest lands.

Critical Tracking

Note that critical tracking is the same for all specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=030501&track=02) may be used for transfer students.

Semester 1

- Complete 1 of 7 critical-tracking courses: AEB 2014 or ECO 2013 or ECO 2023, AEC 3030C or SPC 2608, AEC 3033C, BSC 2010/BSC 2010L, CHM 1030 or CHM 2045, MAC 1105, STA 2023
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
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Semester 4

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 7 critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
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Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	
CHM 2045	General Chemistry 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
FOR 2662	Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
	Credits	15
Semester Two		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
MAC 1105	Basic College Algebra (**Critical Tracking**; or higher; State Core Gen Ed Mathematics)	3
FAS 2024	Sustainable Fisheries (recommended elective)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	16
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (**Critical Tracking**; Writing Requirement) [1]	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
FOR 2662	Forests for the Future (recommended, if not already taken) [2]	3
Gen Ed Composition		3
Elective		2
	Credits	14
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
FAS 2024	Sustainable Fisheries (recommended elective, if not already taken)	3
PHY 2020	Introduction to Principles of Physics (Gen Ed Physical Sciences; recommended course)	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Summer After Semester Four		
FOR 3200C	Foundations of Natural Resources and Conservation (Summer B only)	3
FOR 3434C	Forest Resources Information Systems (Summer B only)	3
	Credits	6
Semester Five		
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FOR 3153C	Forest Ecology	3
SWS 3022	Introduction to Soils in the Environment	3
SWS 3022L	Introduction to Soils in the Environment Laboratory (optional)	0-1
	Credits	12-13
Semester Six		
FOR 3162C	Silviculture	4
FOR 3202	Society and Natural Resources	3
FOR 3342C	Tree Biology	3
FOR 3430C	Forest Mensuration	3
	Credits	13
Semester Seven		
FNR 4624C	Field Operations for Management of Ecosystems	3

FNR 4660	Natural Resource Policy and Economics	3
FOR 4020	Seminar in Contemporary Issues in Forest Resources and Conservation	1
FOR 4621	Forest Economics and Management	4
WIS 3401	Wildlife Ecology and Management	3
	Credits	14
Semester Eight		
FNR 4343C	Forest Water Resources	3
FNR 4623C	Integrated Natural Resource Management	3
FOR 3214 & 3214L	Fire Ecology and Management and Fire Ecology and Management Laboratory	3
FOR 4060 or FOR 4090C	Global Forests or Urban Forestry	3
FOR 4624C	Forest Health Management	3
	Credits	15
	Total Credits	120

1 Can substitute ENC 2210 or ENC 3254.

2 Elective: FOR 2662 recommended, if not already taken; or FOR 3004 recommended.

Placement tests and/or prerequisites may be necessary for access to certain courses.

Course availability may necessitate departure from this course sequence. Except for certain courses where sequence is important, successful completion is more important than the sequence in which the courses are taken.

The summer term between the junior and senior year is normally reserved for professional work experience. For questions regarding opportunities, email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major) the SFRC Student Services office.

Academic Learning Compact

The forest resources and conservation major provides a broad education in the ecological, economic and social aspects of forest and natural resources and their management. The major also provides national accreditation from the Society of American Foresters.

Before Graduating Students Must

- Pass the forest resources and conservation competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FNR 4040C		
FNR 4623C	Integrated Natural Resource Management	3
FNR 4660	Natural Resource Policy and Economics	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competency in biology/ecology, quantification, policy/administration and management of forest and related natural resources.
2. Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

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3. Solve novel problems in forest and natural resource management.

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Curriculum Map

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Courses	SLO 1	SLO 2	SLO 3	SLO 4
FNR 3131C	I			I
FNR 3410C	I			

FNR 4343C	R	R		R
FNR 4623C	R		A	A
FNR 4660	I		R	R
FOR 3153C	I	I	R	I
FOR 3162C	R	R		R
FOR 3200C	I	I	I	I
FOR 3202	I		R	R
FOR 3214	R	R	R	R
FOR 3434C	I	I		
FOR 4020			R	R

Assessment Types

- Final group project
- Exams
- Program exit exam

Forest Resources and Conservation | Protected Areas Management

Providing students with a solid understanding of ecology, this major prepares students to manage and develop forest areas for economic, recreational, and ecological purposes. Forest Resources and Conservation students study natural resource management and analysis, soil and water sciences, plant identification, law and policy, fire management, and natural resource economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Forest Resources and Conservation
- **Specializations:** Environmental Pre-Law (p. 158) | Forest Business Management | (p. 162) Forest Resource Management (p. 166) | Protected Areas Management (p. 170) | Recreation Resources Management (p. 174) | Urban Forestry (p. 178) | Watershed Science and Management (p. 182)
- **Credits for Degree:** 120
- **Contact:** Email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major)
- **Additional Information**
- **Related Forest Resources and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Forest Resource Management

Accredited by the Society of American Foresters and is for students seeking careers as professional forest resource managers who apply science-based strategies to managing publicly and privately-owned forest lands.

Urban Forestry

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Related Forest Resources and Conservation Programs

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- Forest Resources and Conservation minor (p. 186)
- Bachelor of Science in Natural Resource Conservation (p. 235)

Protected Areas Management

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Critical Tracking

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- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 7 critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	
CHM 2045	General Chemistry 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
FOR 2662	Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
	Credits	15
Semester Two		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
MAC 1105	Basic College Algebra (**Critical Tracking**; or higher; State Core Gen Ed Mathematics)	3
FAS 2024	Sustainable Fisheries (recommended elective)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	16
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (**Critical Tracking**; Writing Requirement) [1]	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
FOR 2662	Forests for the Future (recommended, if not already taken) [2]	3
Gen Ed Composition		3
Elective		2
	Credits	14
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
FAS 2024	Sustainable Fisheries (recommended elective, if not already taken)	3
PHY 2020	Introduction to Principles of Physics (Gen Ed Physical Sciences; recommended course)	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Summer After Semester Four		
FOR 3200C	Foundations of Natural Resources and Conservation (Summer B only)	3
FOR 3434C	Forest Resources Information Systems (Summer B only)	3
	Credits	6
Semester Five		
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FOR 3153C	Forest Ecology	3
FOR 4664	Sustainable Ecotourism Development	3
SWS 3022	Introduction to Soils in the Environment	3
SWS 3022L	Introduction to Soils in the Environment Laboratory (optional)	0-1
	Credits	15-16
Semester Six		
FOR 3162C	Silviculture	4
FOR 3202	Society and Natural Resources	3
FOR 3430C or WIS 4554	Forest Mensuration or Conservation Biology	3
FOR 4110	Ecology and Restoration of Longleaf Pine Ecosystems	3

FOR 4941	Internship in Natural Resources (often completed during this summer term)	2
	Credits	15
Semester Seven		
AEB 3450	Introduction to Natural Resource and Environmental Economics	3
FNR 4624C	Field Operations for Management of Ecosystems	3
FNR 4660	Natural Resource Policy and Economics	3
FOR 4020	Seminar in Contemporary Issues in Forest Resources and Conservation	1
WIS 3401	Wildlife Ecology and Management	3
	Credits	13
Semester Eight		
FNR 4343C	Forest Water Resources	3
FNR 4623C	Integrated Natural Resource Management	3
FOR 3214	Fire Ecology and Management	2
FOR 3214L	Fire Ecology and Management Laboratory (optional)	0-1
FOR 4624C	Forest Health Management	3
	Credits	11-12
	Total Credits	120

[1] Can substitute ENC 2210 or ENC 3254.

[2] Elective: FOR 2662 recommended, if not already taken; or FOR 3004 recommended.

Placement tests and/or prerequisites may be necessary for access to certain courses.

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Academic Learning Compact

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Before Graduating Students Must

- Pass the forest resources and conservation competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FNR 4040C		
FNR 4623C	Integrated Natural Resource Management	3
FNR 4660	Natural Resource Policy and Economics	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competency in biology/ecology, quantification, policy/administration and management of forest and related natural resources.
2. Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

Critical Thinking

3. Solve novel problems in forest and natural resource management.

Communication

4. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
FNR 3131C	I			I
FNR 3410C	I			
FNR 4343C	R	R		R
FNR 4623C	R		A	A
FNR 4660	I		R	R
FOR 3153C	I	I	R	I
FOR 3162C	R	R		R
FOR 3200C	I	I	I	I
FOR 3202	I		R	R
FOR 3214	R	R	R	R
FOR 3434C	I	I		
FOR 4020			R	R

Assessment Types

- Final group project
- Exams
- Program exit exam

Forest Resources and Conservation | Recreation Resources Management

Providing students with a solid understanding of ecology, this major prepares students to manage and develop forest areas for economic, recreational, and ecological purposes. Forest Resources and Conservation students study natural resource management and analysis, soil and water sciences, plant identification, law and policy, fire management, and natural resource economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Forest Resources and Conservation
- **Specializations:** Environmental Pre-Law (p. 158) | Forest Business Management | (p. 162) Forest Resource Management (p. 166) | Protected Areas Management (p. 170) | Recreation Resources Management (p. 174) | Urban Forestry (p. 178) | Watershed Science and Management (p. 182)
- **Credits for Degree:** 120
- **Contact:** Email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major)
- **Additional Information**
- **Related Forest Resources and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Forest Resource Management

Accredited by the Society of American Foresters and is for students seeking careers as professional forest resource managers who apply science-based strategies to managing publicly and privately-owned forest lands.

Urban Forestry

Accredited by the Society of American Foresters and is for students with interests in forest management in the typically local-scale forests in urban-suburban landscapes, and at the interface of urban and undeveloped lands.

Environmental Pre-Law

Accredited by the Society of American Foresters and provides a solid basis of forest and natural resources science and management upon which is built a broad introduction to the policies, ethics, and processes affecting the use of natural resources.

Protected Areas Management

Accredited by the Society of American Foresters and is for students interested in managing lands for conservation and restoration purposes, usually on public lands managed by the government or by lands owned by private conservation organizations.

Recreation Resources Management

Accredited by the Society of American Foresters and focuses on the sustainable management of recreation lands as a natural resource and understanding human dimensions as related to their use.

Forest Business Management

Accredited by the Society of American Foresters and gives students a sound background in natural resource management and a broad introduction to business as appropriate for students interested in consulting, real estate or working for forest industry.

Watershed Science and Management

Prepares students to address the many and varied management issues associated with water resources, including wetlands, soils, policy, and water quality.

Related Forest Resources and Conservation Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Forest Resources and Conservation minor (p. 186)
- Bachelor of Science in Natural Resource Conservation (p. 235)

Recreation Resources Management

This specialization focuses on the sustainable management of recreation lands as a natural resource and understanding human dimensions as related to their use.

Critical Tracking

Note that critical tracking is the same for all specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=030501&track=02) may be used for transfer students.

Semester 1

- Complete 1 of 7 critical-tracking courses: AEB 2014 or ECO 2013 or ECO 2023, AEC 3030C or SPC 2608, AEC 3033C, BSC 2010/BSC 2010L, CHM 1030 or CHM 2045, MAC 1105, STA 2023
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 7 critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	
CHM 2045	General Chemistry 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
FOR 2662	Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
	Credits	15
Semester Two		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
MAC 1105	Basic College Algebra (**Critical Tracking**; or higher; State Core Gen Ed Mathematics)	3
FAS 2024	Sustainable Fisheries (recommended elective)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	16
Semester Three		
Select one: [1]		3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (**Critical Tracking**; Writing Requirement)	
ENC 2210	Technical Writing (**Critical Tracking**; Writing Requirement)	
ENC 3254	Professional Writing in the Discipline (**Critical Tracking**; Writing Requirement)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
FOR 2662	Forests for the Future (recommended, if not already taken) [2]	3
Gen Ed Composition		3
Elective		2
	Credits	14
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
FAS 2024	Sustainable Fisheries (recommended elective, if not already taken)	3
PHY 2020	Introduction to Principles of Physics (Gen Ed Physical Sciences; recommended course)	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Summer After Semester Four		
FOR 3200C	Foundations of Natural Resources and Conservation (Summer B only)	3
FOR 3434C	Forest Resources Information Systems (Summer B only)	3
	Credits	6
Semester Five		
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FOR 3153C	Forest Ecology	3
FOR 4664	Sustainable Ecotourism Development	3
	Credits	12

Semester Six		
FOR 3162C	Silviculture	4
FOR 3202	Society and Natural Resources	3
Business management elective		3
Directed electives		4
	Credits	14
Semester Seven		
FNR 4660	Natural Resource Policy and Economics	3
FOR 4020	Seminar in Contemporary Issues in Forest Resources and Conservation	1
Forest resources and management elective		3
Recreation elective		3
Recreation resources elective		3
	Credits	13
Semester Eight		
FNR 4343C	Forest Water Resources	3
FNR 4623C	Integrated Natural Resource Management	3
FOR 3214	Fire Ecology and Management	2
FOR 3214L	Fire Ecology and Management Laboratory (optional)	0-1
MAN 3025	Principles of Management	4
Recreation elective		3
	Credits	15-16
	Total Credits	120

1 Fulfills CALS Advanced Communication Writing Requirement.

2 Elective: FOR 2662 recommended, if not already taken; or FOR 3004 recommended.

Placement tests and/or prerequisites may be necessary for access to certain courses.

Course availability may necessitate departure from this course sequence. Except for certain courses where sequence is important, successful completion is more important than the sequence in which the courses are taken.

The summer term between the junior and senior year is normally reserved for professional work experience. For questions regarding opportunities, email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major) the SFRC Student Services office.

Academic Learning Compact

The forest resources and conservation major provides a broad education in the ecological, economic and social aspects of forest and natural resources and their management. The major also provides national accreditation from the Society of American Foresters.

Before Graduating Students Must

- Pass the forest resources and conservation competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FNR 4040C		
FNR 4623C	Integrated Natural Resource Management	3
FNR 4660	Natural Resource Policy and Economics	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competency in biology/ecology, quantification, policy/administration and management of forest and related natural resources.
2. Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

Critical Thinking

3. Solve novel problems in forest and natural resource management.

Communication

4. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
FNR 3131C	I			I
FNR 3410C	I			
FNR 4343C	R	R		R
FNR 4623C	R		A	A
FNR 4660	I		R	R
FOR 3153C	I	I	R	I
FOR 3162C	R	R		R
FOR 3200C	I	I	I	I
FOR 3202	I		R	R
FOR 3214	R	R	R	R
FOR 3434C	I	I		
FOR 4020			R	R

Assessment Types

- Final group project
- Exams
- Program exit exam

Forest Resources and Conservation | Urban Forestry

Providing students with a solid understanding of ecology, this major prepares students to manage and develop forest areas for economic, recreational, and ecological purposes. Forest Resources and Conservation students study natural resource management and analysis, soil and water sciences, plant identification, law and policy, fire management, and natural resource economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Forest Resources and Conservation
- **Specializations:** Environmental Pre-Law (p. 158) | Forest Business Management | (p. 162) Forest Resource Management (p. 166) | Protected Areas Management (p. 170) | Recreation Resources Management (p. 174) | Urban Forestry (p. 178) | Watershed Science and Management (p. 182)
- **Credits for Degree:** 120
- **Contact:** Email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major)
- **Additional Information**
- **Related Forest Resources and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Forest Resource Management

Accredited by the Society of American Foresters and is for students seeking careers as professional forest resource managers who apply science-based strategies to managing publicly and privately-owned forest lands.

Urban Forestry

Accredited by the Society of American Foresters and is for students with interests in forest management in the typically local-scale forests in urban-suburban landscapes, and at the interface of urban and undeveloped lands.

Environmental Pre-Law

Accredited by the Society of American Foresters and provides a solid basis of forest and natural resources science and management upon which is built a broad introduction to the policies, ethics, and processes affecting the use of natural resources.

Protected Areas Management

Accredited by the Society of American Foresters and is for students interested in managing lands for conservation and restoration purposes, usually on public lands managed by the government or by lands owned by private conservation organizations.

Recreation Resources Management

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Forest Business Management

Accredited by the Society of American Foresters and gives students a sound background in natural resource management and a broad introduction to business as appropriate for students interested in consulting, real estate or working for forest industry.

Watershed Science and Management

Prepares students to address the many and varied management issues associated with water resources, including wetlands, soils, policy, and water quality.

Related Forest Resources and Conservation Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Forest Resources and Conservation minor (p. 186)
- Bachelor of Science in Natural Resource Conservation (p. 235)

Urban Forestry

This specialization is for students with interests in forest management in the typically local-scale forests in urban-suburban landscapes, and at the interface of urban and undeveloped lands.

Critical Tracking

Note that critical tracking is the same for all specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=030501&track=02) may be used for transfer students.

Semester 1

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- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 7 critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
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Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	
CHM 2045	General Chemistry 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
FOR 2662	Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
	Credits	15
Semester Two		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
MAC 1105	Basic College Algebra (**Critical Tracking**; or higher; State Core Gen Ed Mathematics)	3
FAS 2024	Sustainable Fisheries (recommended elective)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	16
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (**Critical Tracking**; Writing Requirement) [1]	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
FOR 2662	Forests for the Future (recommended, if not already taken) [2]	3
Gen Ed Composition		3
Elective		2
	Credits	14
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
FAS 2024	Sustainable Fisheries (recommended elective, if not already taken)	3
PHY 2020	Introduction to Principles of Physics (Gen Ed Physical Sciences; recommended course)	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Summer After Semester Four		
FOR 3200C	Foundations of Natural Resources and Conservation (Summer B only)	3

FOR 3434C	Forest Resources Information Systems (Summer B only)	3
	Credits	6
Semester Five		
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FOR 3153C	Forest Ecology	3
SWS 3022	Introduction to Soils in the Environment	3
SWS 3022L	Introduction to Soils in the Environment Laboratory (optional)	0-1
	Credits	12-13
Semester Six		
FOR 3162C	Silviculture	4
FOR 3202	Society and Natural Resources	3
FOR 3342C	Tree Biology	3
ORH 4242C	Arboriculture	4
	Credits	14
Semester Seven		
FNR 4624C or ORH 3513C	Field Operations for Management of Ecosystems or Environmental Plant Identification and Use	3
FNR 4660	Natural Resource Policy and Economics	3
FOR 4020	Seminar in Contemporary Issues in Forest Resources and Conservation	1
WIS 3401	Wildlife Ecology and Management	3
Directed elective		2
Social dimensions elective		2
	Credits	14
Semester Eight		
FOR 3214	Fire Ecology and Management	2
FOR 3214L	Fire Ecology and Management Laboratory (optional)	0-1
FOR 4090C	Urban Forestry	3
FNR 4343C	Forest Water Resources	3
FNR 4623C	Integrated Natural Resource Management	3
FOR 4624C	Forest Health Management	3
	Credits	14-15
	Total Credits	120

1 Can substitute ENC 2210 or ENC 3254.

2 Elective: FOR 2662 recommended, if not already taken; or FOR 3004 recommended.

Placement tests and/or prerequisites may be necessary for access to certain courses.

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The summer term between the junior and senior year is normally reserved for professional work experience. For questions regarding opportunities, email (khaselier@ufl.edu?Subject=Forest Resources and Conservation Major) the SFRC Student Services office.

Academic Learning Compact

The forest resources and conservation major provides a broad education in the ecological, economic and social aspects of forest and natural resources and their management. The major also provides national accreditation from the Society of American Foresters.

Before Graduating Students Must

- Pass the forest resources and conservation competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FNR 4040C		
FNR 4623C	Integrated Natural Resource Management	3
FNR 4660	Natural Resource Policy and Economics	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competency in biology/ecology, quantification, policy/administration and management of forest and related natural resources.
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3. Solve novel problems in forest and natural resource management.

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4. Create, interpret and analyze written text, oral messages and multimedia presentations.

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Courses	SLO 1	SLO 2	SLO 3	SLO 4
FNR 3131C	I			I
FNR 3410C	I			
FNR 4343C	R	R		R
FNR 4623C	R		A	A
FNR 4660	I		R	R
FOR 3153C	I	I	R	I
FOR 3162C	R	R		R
FOR 3200C	I	I	I	I
FOR 3202	I		R	R
FOR 3214	R	R	R	R
FOR 3434C	I	I		
FOR 4020			R	R

Assessment Types

- Final group project
- Exams
- Program exit exam

Forest Resources and Conservation | Watershed Science and Management

Providing students with a solid understanding of ecology, this major prepares students to manage and develop forest areas for economic, recreational, and ecological purposes. Forest Resources and Conservation students study natural resource management and analysis, soil and water sciences, plant identification, law and policy, fire management, and natural resource economics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Forest Resources and Conservation
- **Specializations:** Environmental Pre-Law (p. 158) | Forest Business Management | (p. 162) Forest Resource Management (p. 166) | Protected Areas Management (p. 170) | Recreation Resources Management (p. 174) | Urban Forestry (p. 178) | Watershed Science and Management (p. 182)
- **Credits for Degree:** 120
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Prepares students to address the many and varied management issues associated with water resources, including wetlands, soils, policy, and water quality.

Related Forest Resources and Conservation Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Forest Resources and Conservation minor (p. 186)
- Bachelor of Science in Natural Resource Conservation (p. 235)

Watershed Science and Management

This specialization prepares students to address the many and varied management issues associated with water resources, including wetlands, soils, policy, and water quality.

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- 2.5 GPA required for all critical-tracking courses
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Semester 2

- Complete 2 additional critical-tracking courses
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- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 7 critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
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Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

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Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	
CHM 2045	General Chemistry 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
FOR 2662	Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course)	3
Elective		3
	Credits	15
Semester Two		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
MAC 1105	Basic College Algebra (**Critical Tracking**; or higher; State Core Gen Ed Mathematics)	3
FAS 2024	Sustainable Fisheries (recommended elective)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	16
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (**Critical Tracking**; Writing Requirement) [1]	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
FOR 2662	Forests for the Future (recommended, if not already taken) [2]	3
Gen Ed Composition		3
Elective		2
	Credits	14
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
FAS 2024	Sustainable Fisheries (recommended elective, if not already taken)	3

PHY 2020	Introduction to Principles of Physics (Gen Ed Physical Sciences; recommended course)	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Summer After Semester Four		
FOR 3200C	Foundations of Natural Resources and Conservation (Summer B only)	3
FOR 3434C	Forest Resources Information Systems (Summer B only)	3
	Credits	6
Semester Five		
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FOR 3153C	Forest Ecology	3
SWS 3022	Introduction to Soils in the Environment	3
SWS 3022L	Introduction to Soils in the Environment Laboratory (optional)	0-1
	Credits	12-13
Semester Six		
FOR 3162C	Silviculture	4
FOR 3202	Society and Natural Resources	3
GEO 3250	Climatology	3
GLY 2010C	Physical Geology	4
	Credits	14
Semester Seven		
FNR 4461	Spatial Models and Decision Analysis	3
FNR 4660	Natural Resource Policy and Economics	3
FOR 4020	Seminar in Contemporary Issues in Forest Resources and Conservation	1
Management and social dimensions elective		3
Physical dimensions elective		3
	Credits	13
Semester Eight		
FNR 4343C	Forest Water Resources	3
FNR 4345	Models for Water Resources	1
FNR 4623C	Integrated Natural Resource Management	3
FOR 3214	Fire Ecology and Management	2
FOR 3214L	Fire Ecology and Management Laboratory (optional)	0-1
Chemical and biological dimensions elective		3
Management and social dimensions elective		3
	Credits	15-16
	Total Credits	120

1 Can substitute ENC 2210 or ENC 3254.

2 Elective: FOR 2662 recommended, if not already taken; or FOR 3004 recommended.

Placement tests and/or prerequisites may be necessary for access to certain courses.

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FNR 3410C	Natural Resource Sampling	3
FNR 4040C		

FNR 4623C	Integrated Natural Resource Management	3
FNR 4660	Natural Resource Policy and Economics	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competency in biology/ecology, quantification, policy/administration and management of forest and related natural resources.
2. Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

Critical Thinking

3. Solve novel problems in forest and natural resource management.

Communication

4. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
FNR 3131C	I			I
FNR 3410C	I			
FNR 4343C	R	R		R
FNR 4623C	R		A	A
FNR 4660	I		R	R
FOR 3153C	I	I	R	I
FOR 3162C	R	R		R
FOR 3200C	I	I	I	I
FOR 3202	I		R	R
FOR 3214	R	R	R	R
FOR 3434C	I	I		
FOR 4020			R	R

Assessment Types

- Final group project
- Exams
- Program exit exam

Forest Resources and Conservation Minor

This minor introduces natural resource management and is ideal for students majoring in related fields such as wildlife ecology, soil and water science and environmental science. The minor also is a good option for those who are interested in the social aspects of natural resources with majors such as business, education, food and resource economics, political science, etc.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 17-18 | Completed with minimum grades of C
- **Contact:** 121 Newins-Ziegler Hall (http://campusmap.ufl.edu/?loc=0832)
- **Related Forest Resources and Conservation Programs**

Prerequisites for each course must be completed before enrollment. Students must declare the minor at least two semesters before graduation.

Required Courses

Code	Title	Credits
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FOR 3162C	Silviculture	4
FOR 4621	Forest Economics and Management	4
FOR course (3000/4000 level)		3-4
Total Credits		17-18

Related Forest Resources and Conservation Programs

- Bachelor of Science in Forest Resources and Conservation (p. 156)
- Bachelor of Science in Natural Resource Conservation (p. 235)

Geomatics

The geomatics profession collects, manages, and analyzes geospatial data through ground surveying, photogrammetry, remote sensing, satellite positioning, inertial measurements, echo-sounding, and laser scanning. Geomatics students study geometry, statistics, boundary law, and surveying and mapping instrument usage.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Geomatics
- **Specializations:** Geospatial Analysis (p. 188) | Surveying and Mapping (p. 192)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Geomatics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Geomatics students learn how land, infrastructure, and natural resources are measured, analyzed, and integrated into useable forms and systems. Students gain hands-on experience working with field equipment and in high-tech classrooms. Present land values, rates of urban development, and environmental concerns require a broad set of expertise to develop, manage, and apply geospatial information. Students majoring in Geomatics complete either the Surveying and Mapping specialization or the Geospatial Analysis specialization.

Both specializations within the Geomatics major are offered at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, FL, the Gulf Coast Research and Education Center in Plant City, FL (near Tampa) and at the Mid-Florida Research and Education Center in Apopka, FL (near Orlando).

Related Geomatics Programs

- Geomatics certificate (p. 197)
- Mapping with Small Unmanned Aerial Systems certificate (p. 217)

Academic Learning Compact

Geomatics addresses land information development and management through field survey, photogrammetry, remote sensing, satellite positions and other techniques. The program is nationally accredited and graduates often obtain licensure as professional surveyors and mappers.

A nationally accredited ABET (http://www.abet.org) program.

Before Graduating Students Must

- Pass the geomatics competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
SUR 3103C	Geomatics	3
SUR 3520	Measurement Science	3
SUR 4430	Surveying and Mapping Practice	3
SUR 4463	Subdivision Design	3

SUR 4912	Senior Project	1
Total Credits		13

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Knowledge and competency in geometry, statistics, boundary law, surveying and mapping instrument usage and statutes and ordinances pertaining to professional practice.

Critical Thinking

2. Define problems, formulate solutions, assess legal evidence, interpret statistical results, design a system or process, and understand professional and ethical issues.

Communication

3. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
SUR 3103C	I, R, A	I, R, A	I, R, A
SUR 3520		I, R, A	I, R, A
SUR 4430	I, R, A	R, A	R, A
SUR 4463	R, A	R, A	R, A
SUR 4912		R, A	R, A

Assessment Types

- Labs
- Projects
- Papers
- Exams
- Presentations

Geomatics | Geospatial Analysis

The geomatics profession collects, manages, and analyzes geospatial data through ground surveying, photogrammetry, remote sensing, satellite positioning, inertial measurements, echo-sounding, and laser scanning. Geomatics students study geometry, statistics, boundary law, and surveying and mapping instrument usage.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Geomatics
- **Specializations:** Geospatial Analysis (p. 188) | Surveying and Mapping (p. 192)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Geomatics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Geomatics students learn how land, infrastructure, and natural resources are measured, analyzed, and integrated into useable forms and systems. Students gain hands-on experience working with field equipment and in high-tech classrooms. Present land values, rates of urban development, and environmental concerns require a broad set of expertise to develop, manage, and apply geospatial information. Students majoring in Geomatics complete either the Surveying and Mapping specialization or the Geospatial Analysis specialization.

Both specializations within the Geomatics major are offered at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, FL, the Gulf Coast Research and Education Center in Plant City, FL (near Tampa) and at the Mid-Florida Research and Education Center in Apopka, FL (near Orlando).

Related Geomatics Programs

- Geomatics certificate (p. 197)
- Mapping with Small Unmanned Aerial Systems certificate (p. 217)

Geospatial Analysis

The Geospatial Analysis specialization offers a broader set of courses in GIS and 3-D modeling.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=151102&track=01) may be used for transfer students.

Semester 1

- Complete at least 1 of 7 critical-tracking courses (excluding labs): AEB 2014 or ECO 2023 or ECO 2013, AEC 3030C or SPC 2608, COP 2800 or advisor-approved course in computer programming, MAC 2311, PHY 2053/PHY 2053L, PHY 2054/PHY 2054L and STA 2023
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete at least 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete at least 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete at least 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	

IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological or Physical Sciences [1]		3-4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective [2]		3-4
	Credits	15-18
Semester Two		
Select one:		3
COP 2800	Computer Programming Using JAVA (**Critical Tracking**)	
COP 2271 & 2271L	Computer Programming for Engineers and Computer Programming for Engineers Laboratory (**Critical Tracking**)	
COP 3275	Computer Programming Using C (**Critical Tracking**)	
COP 3229	Computer Programming Using C++ (**Critical Tracking**)	
Approved computer programming course (**Critical Tracking**)		
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [3]	4
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		2
	Credits	15
Semester Three		
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences) [3]	5
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Composition; Writing Requirement		3
Elective [4]		3-4
	Credits	14-15
Semester Four		
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2 (**Critical Tracking**; Gen Ed Physical Sciences) [3]	5
Select 6 credits:		6
Gen Ed Diversity and International		
Gen Ed Diversity or International and/or Social and Behavioral Sciences		
Elective		2
	Credits	16
Semester Five		
Select one:		3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	
ENC 2210	Technical Writing (Writing Requirement)	
ENC 3254	Professional Writing in the Discipline (Writing Requirement)	
SUR 3103C	Geomatics [5]	3
SUR 3323	Visualization of Spatial Information [5]	3
GIS 3072C	Geographic Information Systems [5]	3
SUR 3641	Survey Computations [5]	3
	Credits	15
Semester Six		
AEB 3133 or MAN 3025	Principles of Agribusiness Management or Principles of Management	3-4
AEB 4123 or BUL 4310	Agricultural and Natural Resource Law or The Legal Environment of Business	3-4
SUR 3331C	Photogrammetry [5]	3
SUR 4501C	Foundations of UAS Mapping [5]	3
SUR 3520	Measurement Science [5]	3
	Credits	15-17
Summer After Semester Six		
SUR 4949	Co-op Work Experience [6]	1
SUR 4949	Co-op Work Experience [6]	1
	Credits	2

Semester Seven		
Select one:		2-3
FNR 3131C	Dendrology/Forest Plants	
FOR 4934	Topics in Natural Resources (Florida Forest Communities)	
SUR 4350C	Advanced Photogrammetry [5]	3
SUR 4530	Geodesy and Geodetic Positioning [5]	3
SUR 4911	Supervised Research in Geomatics	1
Select 6 approved credits:		6
Analysis electives		
Geomatics electives		
Geospatial Application electives		
	Credits	15-16
Semester Eight		
SUR 4121	Geospatial Analysis [5]	3
SUR 4380	Remote Sensing [5]	3
SUR 4912	Senior Project [5]	1
Select 3 approved credits:		3
Analysis electives		
Geomatics electives		
Geospatial application electives		
Natural resources elective		3
	Credits	13
	Total Credits	120

1 FOR 3004 or SWS 3022 and SWS 3022L recommended.

2 GEO 2200 or GLY 2010C recommended.

3 May be used as substitutes:
- MAC 1114 and MAC 2233 for MAC 2311
- PHY 2004 and PHY 2004L for PHY 2053 and PHY 2053L
- PHY 2005 and PHY 2005L for PHY 2054 and PHY 2054L

4 GEO 2200 or GLY 2010C recommended, if not already taken.

5 Minimum grade of C required.

6 Must take two sections of SUR 4949 concurrently.

Placement tests and/or prerequisites may be required to access certain courses.

Non-specified general education (GE) courses may be selected from any approved course in the subject area. Selection of courses must consider satisfaction of the writing requirement and international studies and diversity requirements.

Academic Learning Compact

Geomatics addresses land information development and management through field survey, photogrammetry, remote sensing, satellite positions and other techniques. The program is nationally accredited and graduates often obtain licensure as professional surveyors and mappers.

A nationally accredited ABET (http://www.abet.org) program.

Before Graduating Students Must

- Pass the geomatics competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
SUR 3103C	Geomatics	3
SUR 3520	Measurement Science	3
SUR 4430	Surveying and Mapping Practice	3
SUR 4463	Subdivision Design	3
SUR 4912	Senior Project	1
Total Credits		13

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Knowledge and competency in geometry, statistics, boundary law, surveying and mapping instrument usage and statutes and ordinances pertaining to professional practice.

Critical Thinking

2. Define problems, formulate solutions, assess legal evidence, interpret statistical results, design a system or process, and understand professional and ethical issues.

Communication

3. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
SUR 3103C	I, R, A	I, R, A	I, R, A
SUR 3520		I, R, A	I, R, A
SUR 4430	I, R, A	R, A	R, A
SUR 4463	R, A	R, A	R, A
SUR 4912		R, A	R, A

Assessment Types

- Labs
- Projects
- Papers
- Exams
- Presentations

Geomatics | Surveying and Mapping

The geomatics profession collects, manages, and analyzes geospatial data through ground surveying, photogrammetry, remote sensing, satellite positioning, inertial measurements, echo-sounding, and laser scanning. Geomatics students study geometry, statistics, boundary law, and surveying and mapping instrument usage.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science in Geomatics
- **Specializations:** Geospatial Analysis (p. 188) | Surveying and Mapping (p. 192)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Geomatics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Geomatics students learn how land, infrastructure, and natural resources are measured, analyzed, and integrated into useable forms and systems. Students gain hands-on experience working with field equipment and in high-tech classrooms. Present land values, rates of urban development, and environmental concerns require a broad set of expertise to develop, manage, and apply geospatial information. Students majoring in Geomatics complete either the Surveying and Mapping specialization or the Geospatial Analysis specialization.

Both specializations within the Geomatics major are offered at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, FL, the Gulf Coast Research and Education Center in Plant City, FL (near Tampa) and at the Mid-Florida Research and Education Center in Apopka, FL (near Orlando).

Related Geomatics Programs

- Geomatics certificate (p. 197)
- Mapping with Small Unmanned Aerial Systems certificate (p. 217)

Surveying and Mapping

The Surveying and Mapping specialization is accredited by ABET (http://www.abet.org) and prepares students for entry into the Surveying and Mapping profession.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=151102&track=01) may be used for transfer students.

Semester 1

- Complete at least 1 of 7 critical-tracking courses (excluding labs): AEB 2014 or ECO 2023 or ECO 2013, AEC 3030C or SPC 2608, COP 2800 or advisor-approved course in computer programming, MAC 2311, PHY 2053/PHY 2053L, PHY 2054/PHY 2054L and STA 2023
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete at least 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete at least 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete at least 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological or Physical Sciences [1]		3-4

State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective [2]		3-4
	Credits	15-18
Semester Two		
Select one:		3
COP 2800	Computer Programming Using JAVA (**Critical Tracking**)	
COP 2271 & 2271L	Computer Programming for Engineers and Computer Programming for Engineers Laboratory (**Critical Tracking**)	
COP 3275	Computer Programming Using C (**Critical Tracking**)	
COP 3229	Computer Programming Using C++ (**Critical Tracking**)	
Approved computer programming course (**Critical Tracking**)		
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [3]	4
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		2
	Credits	15
Semester Three		
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences) [3]	5
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Composition; Writing Requirement		3
Elective [4]		3-4
	Credits	14-15
Semester Four		
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2 (**Critical Tracking**; Gen Ed Physical Sciences) [3]	5
Select 6 credits:		6
Gen Ed Diversity and International		
Gen Ed Diversity or International and/or Social and Behavioral Sciences		
Elective		2
	Credits	16
Semester Five		
Select one:		3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	
ENC 2210	Technical Writing (Writing Requirement)	
ENC 3254	Professional Writing in the Discipline (Writing Requirement)	
SUR 3103C	Geomatics [5]	3
SUR 3323	Visualization of Spatial Information [5]	3
GIS 3072C	Geographic Information Systems [5]	3
SUR 3641	Survey Computations [5]	3
	Credits	15
Semester Six		
AEB 3133 or MAN 3025	Principles of Agribusiness Management or Principles of Management	3-4
AEB 4123 or BUL 4310	Agricultural and Natural Resource Law or The Legal Environment of Business	3-4
SUR 3331C	Photogrammetry [5]	3
SUR 4501C	Foundations of UAS Mapping [5]	3
SUR 3520	Measurement Science [5]	3
	Credits	15-17
Summer After Semester Six		
SUR 4949	Co-op Work Experience [6]	1
SUR 4949	Co-op Work Experience [6]	1
	Credits	2
Semester Seven		
Select one:		2-3
FNR 3131C	Dendrology/Forest Plants	

FOR 4934	Topics in Natural Resources (Florida Forest Communities)	
SUR 4201	Route Geometrics and Design [5]	3
SUR 4350C	Advanced Photogrammetry [5]	3
SUR 4403	Cadastral Principles [5]	3
SUR 4530	Geodesy and Geodetic Positioning [5]	3
SUR 4911	Supervised Research in Geomatics	1
	Credits	15-16
Semester Eight		
SUR 4380	Remote Sensing [5]	3
SUR 4430	Surveying and Mapping Practice [5]	3
SUR 4463	Subdivision Design [5]	3
SUR 4912	Senior Project [5]	1
Natural resources elective		3
	Credits	13
	Total Credits	120-127

1 FOR 3004 or SWS 3022 and SWS 3022L recommended.

2 GEO 2200 or GLY 2010C recommended.

3 May be used as substitutes:
- MAC 1114 and MAC 2233 for MAC 2311
- PHY 2004 and PHY 2004L for PHY 2053 and PHY 2053L
- PHY 2005 and PHY 2005L for PHY 2054 and PHY 2054L

4 GEO 2200 or GLY 2010C recommended, if not already taken.

5 Minimum grade of C required.

6 Must take two sections of SUR 4949 concurrently.

Placement tests and/or prerequisites may be required to access certain courses.

Non-specified general education (GE) courses may be selected from any approved course in the subject area. Selection of courses must consider satisfaction of the writing requirement and international studies and diversity requirements.

Approved Electives

Code	Title	Credits
Natural Resources Electives		
Select one:		3
AOM 4643	Environmental Hydrology: Principles and Issues	
FNR 4343C	Forest Water Resources	
FNR 4660	Natural Resource Policy and Economics	
GEO 3280	Principles of Geographic Hydrology	
SUR 4934	Topics in Geomatics (Marine Geomatics) [1]	
SWS 4244	Wetlands	
Analysis Electives		
Select at least one:		3-4
FNR 3410C	Natural Resource Sampling	
GEO 3162C	Introduction to Quantitative Analysis for Geographers	
QMB 3250	Statistics for Business Decisions	
STA 3024	Introduction to Statistics 2	
STA 3032	Engineering Statistics	
Geospatial Application Electives		
Select at least one:		1-4
AOM 4434	Precision Agriculture	
EES 4050	Environmental Planning and Design	
FNR 4461	Spatial Models and Decision Analysis	
GIS 3001C	Spatial Maps and Graphs	
GIS 3420C	GIS Models for Public Health	
GIS 4037	Digital Image Processing	
GIS 4113	Introduction to Spatial Networks	
SUR 4940C	Practicum in UAS Mapping [1]	3
SUR 4376	Geospatial Applications of UASs [1]	3

Geomatics Electives		
Select at most one:		3
SUR 4201	Route Geometrics and Design [1]	
SUR 4403	Cadastral Principles [1]	
SUR 4430	Surveying and Mapping Practice [1]	
SUR 4463	Subdivision Design [1]	
SUR 4934	Topics in Geomatics [1]	

[1] Minimum grade of C required

Academic Learning Compact

Geomatics addresses land information development and management through field survey, photogrammetry, remote sensing, satellite positions and other techniques. The program is nationally accredited and graduates often obtain licensure as professional surveyors and mappers.

A nationally accredited ABET (http://www.abet.org) program.

Before Graduating Students Must

- Pass the geomatics competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
SUR 3103C	Geomatics	3
SUR 3520	Measurement Science	3
SUR 4430	Surveying and Mapping Practice	3
SUR 4463	Subdivision Design	3
SUR 4912	Senior Project	1
Total Credits		13

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Knowledge and competency in geometry, statistics, boundary law, surveying and mapping instrument usage and statutes and ordinances pertaining to professional practice.

Critical Thinking

2. Define problems, formulate solutions, assess legal evidence, interpret statistical results, design a system or process, and understand professional and ethical issues.

Communication

3. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
SUR 3103C	I, R, A	I, R, A	I, R, A
SUR 3520		I, R, A	I, R, A
SUR 4430	I, R, A	R, A	R, A
SUR 4463	R, A	R, A	R, A
SUR 4912		R, A	R, A

Assessment Types

- Labs
- Projects
- Papers
- Exams
- Presentations

Geomatics Certificate

The geomatics certificate is offered via distance learning technologies. The certificate enables individuals without a bachelor's degree in geomatics or a similar field to complete the necessary academic coursework required for licensure as a professional surveyor and mapper (PSM).

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** Email (shouder@ufl.edu) | 352.846.0146
- **Related Geomatics Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Students must have a high-school diploma or the equivalent and they must have completed all course prerequisites before enrolling in any course. Degree-seeking geomatics majors are not eligible for this certificate.

Required Courses

Code	Title	Credits
SUR 3103C	Geomatics	3
SUR 3641	Survey Computations	3
Approved electives		9
Total Credits		15

Approved Electives

Code	Title	Credits
GIS 3072C	Geographic Information Systems	3
SUR 3323	Visualization of Spatial Information	3
SUR 4201	Route Geometrics and Design	3
SUR 4403	Cadastral Principles	3
SUR 4430	Surveying and Mapping Practice	3

Related Geomatics Programs

- Bachelor of Science in Geomatics (p. 187)
- Mapping with Small Unmanned Aerial Systems certificate (p. 217)

Golf and Sports Turf Management Minor

The golf and sports turf management minor provides a basic understanding of turfgrass culture and knowledge of the turfgrass industry.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15
- **Related Plant Science Programs**

Specific courses within the minor must be approved in writing by the student's advisor and the advisor for the minor at least one semester before graduation.

Required Courses

Code	Title	Credits
BOT 2010C	Introductory Botany	3
ORH 3222C	Turfgrass Culture	4
ORH 4223	Golf and Sports Turf Management	2
ORH 4236C	Ornamental Landscape Management	3
PLS 4601C	Principles of Weed Science	3

or SWS 3022	Introduction to Soils in the Environment	
Total Credits		15

Related Plant Science Programs

- Bachelor of Science or Bachelor of Arts in Plant Science (p. 248)
- Environmental Horticulture minor (p. 128)
- Plant Science minor (p. 291)

Horticultural Science

Horticultural Science graduates have a foundation of knowledge in the science behind fruit and vegetable production, including commodity production, cropping systems, basic plant science, and molecular biology. Horticultural Science students study genetics, crop nutrition, plant physiology, chemistry, physics, entomology and nematology, and soil and water sciences.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor in Science
- **Specializations:** Horticultural Production (p. 199) | Horticultural Science (p. 202) | Organic Crop Production (p. 206) | Plant Molecular and Cellular Biology (p. 210)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Horticultural Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The department offers four specializations: horticultural sciences, horticultural production, organic crop production, and plant molecular and cellular biology. These options provide a strong science background and flexibility when choosing elective courses. An academic advisor will help develop the curriculum that best suits your career and educational goals.

Related Horticultural Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Horticultural Science minor (p. 213)

Academic Learning Compact

The horticultural science major prepares students for a career in plant science, including management, production, research, marketing and sales. Students will gain knowledge ranging from commodity production and cropping systems to basic plant science and molecular biology. They will develop skills to describe how plant physiology and genetics relate to plant growth and development as well as developing knowledge of plant diseases and other factors that affect horticultural crops.

Before Graduating Students Must

- Pass the horticultural sciences competency test, given in three parts. One part will be given in each of these required courses:

Code	Title	Credits
HOS 3020C	Principles of Horticulture Crop Production	4
HOS 4304	Horticultural Physiology	3
HOS 4341	Advanced Horticultural Physiology	3

- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental concepts, skills and processes in horticultural science.
2. Apply fundamental concepts, skills and processes in horticultural science.

Critical Thinking

3. Critically analyze and interpret data in horticultural science.
4. Solve problems in horticultural science.

Communication

5. Communicate effectively in written form in a manner appropriate in the field of horticultural science.
6. Communicate effectively orally in a manner appropriate in the field of horticultural science.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C					I, R, A	
AEC 3033C						I, R, A
AGR 3303	I	I				
HOS 3020C	I, R, A	I	I	I		
HOS 3430C	I, R	I, R	R	R		
HOS 4304	R	A	A	A		
HOS 4341	R	R	R	R		
HOS 4933					R	R

Assessment Types

- Class project
- Writing assignments
- Exams
- Final grades

Horticultural Science | Horticultural Production

Horticultural Science graduates have a foundation of knowledge in the science behind fruit and vegetable production, including commodity production, cropping systems, basic plant science, and molecular biology. Horticultural Science students study genetics, crop nutrition, plant physiology, chemistry, physics, entomology and nematology, and soil and water sciences.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor in Science
- **Specializations:** Horticultural Production (p. 199) | Horticultural Science (p. 202) | Organic Crop Production (p. 206) | Plant Molecular and Cellular Biology (p. 210)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Horticultural Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The department offers four specializations: horticultural sciences, horticultural production, organic crop production, and plant molecular and cellular biology. These options provide a strong science background and flexibility when choosing elective courses. An academic advisor will help develop the curriculum that best suits your career and educational goals.

Related Horticultural Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Horticultural Science minor (p. 213)

Horticultural Production

This is a comprehensive program for students planning careers in any phase of the fruit and/or vegetable industry. This specialization emphasizes crop production and management. Career options include production management, agricultural sales, marketing, technical representation and many other opportunities.

Critical Tracking

Note that critical tracking is the same for all specializations of this major except Plant Molecular and Cellular Biology.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011103&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses, excluding labs: BOT 2010C or BSC 2010/BSC 2010L, BOT 2011C or BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, MAC 1147, PHY 2004 or PHY 2020
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		2
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	4

State Core Gen Ed Humanities (p. 23)		3
Electives		5
	Credits	15-16
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
Gen Ed Composition; Writing Requirement		3
Gen Ed Mathematics		2
Electives		4
	Credits	15-16
Semester Four		
AEC 3030C	Effective Oral Communication	3
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
Select one:		3
PHY 2004	Applied Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2020	Introduction to Principles of Physics (**Critical Tracking**; Gen Ed Physical Sciences)	
Electives		5
	Credits	15
Semester Five		
HOS 3020C	Principles of Horticulture Crop Production	4
PLP 3002C	Fundamentals of Plant Pathology	4
PLS 4601C	Principles of Weed Science	3
Approved electives		3
	Credits	14
Semester Six		
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3
HOS 3430C	Nutrition of Horticultural Crops	3
HOS 4933	Professional Development in Horticulture	1
Approved electives		6
Commodity elective [2]		3
	Credits	16
Semester Seven		
AGR 3303	Genetics	3
HOS 4304	Horticultural Physiology	3
Commodity electives [2]		7
Select 1-3 credits from practical work experiences: [1]		1-3
HOS 4905	Independent Study in Horticultural Science	
HOS 4941	Practical Work Experience in Horticultural Sciences	
	Credits	14-16
Semester Eight		
HOS 4341	Advanced Horticultural Physiology	3
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory	4
Approved electives		6
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
	Credits	16
	Total Credits	120

1 Other practical work experience course options, such as relevant study abroad experiences, may be approved by the advisor.

2 Any FRC, VEC, or HOS course, 3000 level or above.

Academic Learning Compact

The horticultural science major prepares students for a career in plant science, including management, production, research, marketing and sales. Students will gain knowledge ranging from commodity production and cropping systems to basic plant science and molecular biology. They will develop skills to describe how plant physiology and genetics relate to plant growth and development as well as developing knowledge of plant diseases and other factors that affect horticultural crops.

Before Graduating Students Must

- Pass the horticultural sciences competency test, given in three parts. One part will be given in each of these required courses:

Code	Title	Credits
HOS 3020C	Principles of Horticulture Crop Production	4
HOS 4304	Horticultural Physiology	3
HOS 4341	Advanced Horticultural Physiology	3

- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental concepts, skills and processes in horticultural science.
2. Apply fundamental concepts, skills and processes in horticultural science.

Critical Thinking

3. Critically analyze and interpret data in horticultural science.
4. Solve problems in horticultural science.

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5. Communicate effectively in written form in a manner appropriate in the field of horticultural science.
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Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C					I, R, A	
AEC 3033C						I, R, A
AGR 3303	I	I				
HOS 3020C	I, R, A	I	I	I		
HOS 3430C	I, R	I, R	R	R		
HOS 4304	R	A	A	A		
HOS 4341	R	R	R	R		
HOS 4933					R	R

Assessment Types

- Class project
- Writing assignments
- Exams
- Final grades

Horticultural Science | Horticultural Science

Horticultural Science graduates have a foundation of knowledge in the science behind fruit and vegetable production, including commodity production, cropping systems, basic plant science, and molecular biology. Horticultural Science students study genetics, crop nutrition, plant physiology, chemistry, physics, entomology and nematology, and soil and water sciences.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor in Science
- **Specializations:** Horticultural Production (p. 199) | Horticultural Science (p. 202) | Organic Crop Production (p. 206) | Plant Molecular and Cellular Biology (p. 210)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Horticultural Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The department offers four specializations: horticultural sciences, horticultural production, organic crop production, and plant molecular and cellular biology. These options provide a strong science background and flexibility when choosing elective courses. An academic advisor will help develop the curriculum that best suits your career and educational goals.

Related Horticultural Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Horticultural Science minor (p. 213)

Horticultural Science

This specialization offers students a generalized program, covering growth and development of horticultural crops. This is a flexible option that can be tailored to individual students' interests and career objectives, ranging from applied production to basic biology. Career options include commodity production/management, research biologist, marketing, agricultural chemical sales, fertilizer sales, produce buyer for grocery stores or restaurants, retail flower sales and a number of other opportunities.

Critical Tracking

Note that critical tracking is the same for all specializations of this major except Plant Molecular and Cellular Biology.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011103&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses, excluding labs: BOT 2010C or BSC 2010/BSC 2010L, BOT 2011C or BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, MAC 1147, PHY 2004 or PHY 2020
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		2
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	4
State Core Gen Ed Humanities (p. 23)		3
Electives		5
	Credits	15-16
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
Gen Ed Composition; Writing Requirement		3
Gen Ed Mathematics		2
Electives		4
	Credits	15-16
Semester Four		
AEC 3030C	Effective Oral Communication	3
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
Select one:		3
PHY 2004	Applied Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2020	Introduction to Principles of Physics (**Critical Tracking**; Gen Ed Physical Sciences)	
Electives		5
	Credits	15
Semester Five		
HOS 3020C	Principles of Horticulture Crop Production	4
ORH 3513C	Environmental Plant Identification and Use	3
Approved electives		5
Pest management course		3-4
	Credits	15-16

Semester Six		
HOS 3430C	Nutrition of Horticultural Crops	3
HOS 4933	Professional Development in Horticulture	1
Approved electives		8
Pest management course		3-4
	Credits	15-16
Semester Seven		
AGR 3303	Genetics	3
HOS 4304	Horticultural Physiology	3
Approved electives		9
	Credits	15
Semester Eight		
HOS 4341	Advanced Horticultural Physiology	3
SWS 3022	Introduction to Soils in the Environment	4
& 3022L	and Introduction to Soils in the Environment Laboratory	
PLS 3223	Plant Propagation	3
& 3223L	and Plant Propagation Laboratory	
Approved electives		5
	Credits	15
	Total Credits	120

Pest Management Courses | Select Two

Code	Title	Credits
ENY 3005	Principles of Entomology	3
& 3005L	and Principles of Entomology Laboratory (fall, spring and summer semesters)	
IPM 3022	Fundamentals of Pest Management (spring semester)	3
NEM 3002	Principles of Nematology (spring semester, even years)	3
PLP 3002C	Fundamentals of Plant Pathology (fall semester)	4
PLS 4601C	Principles of Weed Science (fall semester)	3

Academic Learning Compact

The horticultural science major prepares students for a career in plant science, including management, production, research, marketing and sales. Students will gain knowledge ranging from commodity production and cropping systems to basic plant science and molecular biology. They will develop skills to describe how plant physiology and genetics relate to plant growth and development as well as developing knowledge of plant diseases and other factors that affect horticultural crops.

Before Graduating Students Must

- Pass the horticultural sciences competency test, given in three parts. One part will be given in each of these required courses:

Code	Title	Credits
HOS 3020C	Principles of Horticulture Crop Production	4
HOS 4304	Horticultural Physiology	3
HOS 4341	Advanced Horticultural Physiology	3

- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental concepts, skills and processes in horticultural science.
2. Apply fundamental concepts, skills and processes in horticultural science.

Critical Thinking

3. Critically analyze and interpret data in horticultural science.
4. Solve problems in horticultural science.

Communication

5. Communicate effectively in written form in a manner appropriate in the field of horticultural science.
6. Communicate effectively orally in a manner appropriate in the field of horticultural science.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C					I, R, A	
AEC 3033C						I, R, A
AGR 3303	I	I				
HOS 3020C	I, R, A	I	I	I		
HOS 3430C	I, R	I, R	R	R		
HOS 4304	R	A	A	A		
HOS 4341	R	R	R	R		
HOS 4933					R	R

Assessment Types

- Class project
- Writing assignments
- Exams
- Final grades

Horticultural Science | Organic Crop Production

Horticultural Science graduates have a foundation of knowledge in the science behind fruit and vegetable production, including commodity production, cropping systems, basic plant science, and molecular biology. Horticultural Science students study genetics, crop nutrition, plant physiology, chemistry, physics, entomology and nematology, and soil and water sciences.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor in Science
- **Specializations:** Horticultural Production (p. 199) | Horticultural Science (p. 202) | Organic Crop Production (p. 206) | Plant Molecular and Cellular Biology (p. 210)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Horticultural Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The department offers four specializations: horticultural sciences, horticultural production, organic crop production, and plant molecular and cellular biology. These options provide a strong science background and flexibility when choosing elective courses. An academic advisor will help develop the curriculum that best suits your career and educational goals.

Related Horticultural Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Horticultural Science minor (p. 213)

Organic Crop Production

This specialization emphasizes the cultural practices that maintain ecological and economical balance in horticultural crop production systems. This is a flexible option with many electives available to meet education and career objectives. Graduates will be prepared for a range of careers related to conventional, sustainable and organic crop production.

Critical Tracking

Note that critical tracking is the same for all specializations of this major except Plant Molecular and Cellular Biology.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011103&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses, excluding labs: BOT 2010C or BSC 2010/BSC 2010L, BOT 2011C or BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, MAC 1147, PHY 2004 or PHY 2020
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		2
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	4
State Core Gen Ed Humanities (p. 23)		3
Electives		5
	Credits	15-16

Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
Gen Ed Composition; Writing Requirement		3
Electives		4
Gen Ed Mathematics		2
	Credits	15-16
Semester Four		
AEC 3030C	Effective Oral Communication	3
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
Select one:		3
PHY 2004	Applied Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2020	Introduction to Principles of Physics (**Critical Tracking**; Gen Ed Physical Sciences)	
Electives		5
	Credits	15
Semester Five		
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3
HOS 3020C	Principles of Horticulture Crop Production	4
PLP 3002C	Fundamentals of Plant Pathology	4
Commodity electives or approved electives		5
	Credits	16
Semester Six		
AGR 3303	Genetics	3
AGR 4212	Alternative Cropping Systems	3
HOS 3430C	Nutrition of Horticultural Crops	3
Commodity electives or approved electives		6
	Credits	15
Semester Seven		
HOS 3281C	Organic and Sustainable Crop Production	3
HOS 4304	Horticultural Physiology	3
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory	4
Commodity elective or approved elective		3
Practical work experience		1-3
	Credits	14-16
Semester Eight		
HOS 4283C	Advanced Organic and Sustainable Crop Production	3
HOS 4341	Advanced Horticultural Physiology	3
HOS 4933	Professional Development in Horticulture	1
Commodity electives or approved electives		5-6
Select one pest management course:		3
HOS 4932	Special Topics in Horticultural Sciences (Organic Weed Management; spring semester even years)	
PLS 4601C	Principles of Weed Science (fall semester)	
	Credits	15-16
	Total Credits	120

Approved Electives

Commodity Electives | Select 19-20 Credits

Code	Title	Credits
FRC 3212	Introduction to Citrus Culture and Production (fall semester odd years)	3
FRC 3252	Tropical and Subtropical Fruits (fall semester even years)	2
FRC 3274	Tree and Small Fruit Production (fall semester, odd years)	3
HOS 3222C	Greenhouse and Protected Agriculture (spring semester, even years)	3
VEC 3221C	Vegetable Production (fall semester)	4
For other approved electives, see advisor		

Practical Work Experience | Select One

Code	Title	Credits
HOS 4905	Independent Study in Horticultural Science	1-6
HOS 4941	Practical Work Experience in Horticultural Sciences	1-4
Other practical work experience course options, such as relevant study abroad experiences, may be approved by the advisor		

Academic Learning Compact

The horticultural science major prepares students for a career in plant science, including management, production, research, marketing and sales. Students will gain knowledge ranging from commodity production and cropping systems to basic plant science and molecular biology. They will develop skills to describe how plant physiology and genetics relate to plant growth and development as well as developing knowledge of plant diseases and other factors that affect horticultural crops.

Before Graduating Students Must

- Pass the horticultural sciences competency test, given in three parts. One part will be given in each of these required courses:

Code	Title	Credits
HOS 3020C	Principles of Horticulture Crop Production	4
HOS 4304	Horticultural Physiology	3
HOS 4341	Advanced Horticultural Physiology	3

- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental concepts, skills and processes in horticultural science.
2. Apply fundamental concepts, skills and processes in horticultural science.

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AEC 3033C						I, R, A
AGR 3303	I	I				
HOS 3020C	I, R, A	I	I	I		
HOS 3430C	I, R	I, R	R	R		
HOS 4304	R	A	A	A		

HOS 4341	R		R		R		R			
HOS 4933									R	R

Assessment Types

- Class project
- Writing assignments
- Exams
- Final grades

Horticultural Science | Plant Molecular and Cellular Biology

Horticultural Science graduates have a foundation of knowledge in the science behind fruit and vegetable production, including commodity production, cropping systems, basic plant science, and molecular biology. Horticultural Science students study genetics, crop nutrition, plant physiology, chemistry, physics, entomology and nematology, and soil and water sciences.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor in Science
- **Specializations:** Horticultural Production (p. 199) | Horticultural Science (p. 202) | Organic Crop Production (p. 206) | Plant Molecular and Cellular Biology (p. 210)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Horticultural Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The department offers four specializations: horticultural sciences, horticultural production, organic crop production, and plant molecular and cellular biology. These options provide a strong science background and flexibility when choosing elective courses. An academic advisor will help develop the curriculum that best suits your career and educational goals.

Related Horticultural Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Horticultural Science minor (p. 213)

Plant Molecular and Cellular Biology

This is a comprehensive program focusing on the molecular aspects of crops, including crop growth, development and cultivar improvement. This specialization is geared toward preparing students for careers in laboratory research and is also an excellent preparation for students planning to pursue graduate studies.

Critical Tracking

Note that critical tracking is the same for all specializations of this major except Plant Molecular and Cellular Biology.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011103&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 6 critical-tracking courses, excluding labs: BSC 2010/BSC 2010L, BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2311, PHY 2048/PHY 2048L or PHY 2053/PHY 2053L
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (State Core Gen Ed Mathematics (p. 23))	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	14
Semester Two		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
Select one:		4-5
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
PHY 2048 & 2048L	Physics with Calculus 1 and Laboratory for Physics with Calculus 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	14-15
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; Gen Ed Mathematics)	4
State Core Gen Ed Humanities (p. 23)		3

Elective		2
	Credits	16
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
AEC 3030C	Effective Oral Communication	3
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**)	4
Gen Ed Composition; Writing Requirement		3
Elective		3
	Credits	16-17
Semester Five		
AGR 3303	Genetics	3
CHM 2210	Organic Chemistry 1	3
HOS 3020C	Principles of Horticulture Crop Production	4
HOS 3305	Introduction to Plant Molecular Biology	3
HOS 4313C	Laboratory Methods in Plant Molecular Biology	2
	Credits	15
Semester Six		
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
HOS 4933	Professional Development in Horticulture	1
Approved electives		9
	Credits	15
Semester Seven		
BCH 3025 or BCH 4024	Fundamentals of Biochemistry or Introduction to Biochemistry and Molecular Biology	4
HOS 4304	Horticultural Physiology	3
PLP 3002C	Fundamentals of Plant Pathology	4
Approved elective		3
	Credits	14
Semester Eight		
AGR 4320	Plant Breeding	3
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	4
Approved electives		9
	Credits	16
	Total Credits	120

Academic Learning Compact

The horticultural science major prepares students for a career in plant science, including management, production, research, marketing and sales. Students will gain knowledge ranging from commodity production and cropping systems to basic plant science and molecular biology. They will develop skills to describe how plant physiology and genetics relate to plant growth and development as well as developing knowledge of plant diseases and other factors that affect horticultural crops.

Before Graduating Students Must

- Pass the horticultural sciences competency test, given in three parts. One part will be given in each of these required courses:

Code	Title	Credits
HOS 3020C	Principles of Horticulture Crop Production	4
HOS 4304	Horticultural Physiology	3
HOS 4341	Advanced Horticultural Physiology	3

- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental concepts, skills and processes in horticultural science.
2. Apply fundamental concepts, skills and processes in horticultural science.

Critical Thinking

3. Critically analyze and interpret data in horticultural science.
4. Solve problems in horticultural science.

Communication

5. Communicate effectively in written form in a manner appropriate in the field of horticultural science.
6. Communicate effectively orally in a manner appropriate in the field of horticultural science.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C					I, R, A	
AEC 3033C						I, R, A
AGR 3303	I	I				
HOS 3020C	I, R, A	I	I	I		
HOS 3430C	I, R	I, R	R	R		
HOS 4304	R	A	A	A		
HOS 4341	R	R	R	R		
HOS 4933					R	R

Assessment Types

- Class project
- Writing assignments
- Exams
- Final grades

Horticultural Science Minor

The horticultural science minor is open to any student who wants to explore an interest in fruits and vegetables.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 16
- **Contact:** Email (zxin@ufl.edu) | 352.273.4773
- **Related Horticultural Science Programs**

Some background courses in botany or plant science are recommended.

Required Courses

Code	Title	Credits
HOS 3020C	Principles of Horticulture Crop Production	4
Select 9 credits:		9
FRC 3212	Introduction to Citrus Culture and Production	
FRC 3252	Tropical and Subtropical Fruits	
FRC 3274	Tree and Small Fruit Production	
HOS 3222C	Greenhouse and Protected Agriculture	
HOS 3430C	Nutrition of Horticultural Crops	
HOS 3281C	Organic and Sustainable Crop Production	
VEC 3221C	Vegetable Production	

FRC, HOS or VEC course (3000/4000 level)	3
Total Credits	16

Related Horticultural Science Programs

- Bachelor of Science in Horticultural Science (p. 198)

International Development and Humanitarian Assistance Minor

The international development and humanitarian assistance minor provides the foundational skills and knowledge necessary to contribute productively in nonprofit organizations, private businesses, and public-sector organizations involved with international development and humanitarian assistance.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15

The minor is open to all students.

Required Courses

Code	Title	Credits
AEB 3671	Comparative World Agriculture	3
AEB 4282	International Humanitarian Assistance [1]	3
AEB 4283	International Development Policy [1]	3
Approved electives		6
Total Credits		15

[1] Students must earn minimum grades of C in AEB 4282 and AEB 4283 to continue in the minor.

Approved Electives

Code	Title	Credits
AEB 4242	International Trade Policy in Agriculture	3
AFS 4350	HIV / AIDS in Africa	3
AFS 4935	African Studies Interdisciplinary Seminar	3
ANT 4266	Economic Anthropology	3
CPO 4034	Politics in Developing Nations	3
FYC 4409	Working with Nonprofit Organizations in Community Settings	3
GEO 3502	Economic Geography	3
HSC 4624	Trends in International Health	3
INR 3034	Politics of the World Economy	3
INR 4035	Rich and Poor Nations in the International System	3
LAH 3300	Contemporary Latin America	3
LAS 3930	Special Topics in Latin American Studies	3
LAS 4935	Latin American Area Seminar	3
URP 3001	Cities of the World	3
WST 3930	Special Interdisciplinary Topics in Women's Studies (Gender and Development)	3

International Studies in Agricultural and Life Sciences Minor

Established in 1870, the mission of the College of Agricultural and Life Sciences is to deliver unsurpassed educational programs that prepare students to address the world's critical challenges related to agriculture, food systems, human well-being, natural resources and sustainable communities.

Contact

2020 McCarty Hall D
P.O. Box 110270
University of Florida
Gainesville, FL 32611-0270

352.392.1963

Map (http://campusmap.ufl.edu/?loc=0498) More Info (http://cals.ufl.edu)

Academic Advising
2020 McCarty Hall D
352.392.1963

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15
- **Contact:** Email (wysocki@ufl.edu) | 352.392.1963

Courses must be approved by the associate dean of the college.

The minor has three components:

1. At least six weeks abroad in an approved study abroad program, a cooperative work experience, an internship or a senior thesis project.
2. 9-12 credits in courses with an international focus and technical content related to agricultural and life sciences, selected from the list of approved courses or completed abroad as part of an approved study program.
3. 3-6 credits that focus on the history, social organization, culture or language of a nation or region abroad. These courses can also be completed abroad as part of an approved study program.

Landscape Pest Management Certificate

This certificate offers training to place-bound employees of the landscape management and pest control industries who desire advanced training in landscape (turf, shrub, and tree) pests. The scope of the program extends beyond horticultural insect pests to include nematodes and plant diseases.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15-16 | Completed with minimum grades of C
- **Contact:** Email (capinera@ufl.edu) | 352.273.3905

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Required Courses

Code	Title	Credits
ENY 3005	Principles of Entomology	3
& 3005L	and Principles of Entomology Laboratory	
ENY 3510C	Turf and Ornamental Entomology	3
Approved electives		9-10
Total Credits		15-16

Approved Electives

Code	Title	Credits
ENY 4161	Insect Classification	3
ENY 5236	Insct/Pest/Vctr Manag	3
NEM 3002	Principles of Nematology	3
PLP 3002C	Fundamentals of Plant Pathology	4

Leadership Minor

This interdisciplinary minor, in conjunction with the successful completion of the degree program, provides the fundamental skills and knowledge necessary to assume leadership, supervisory or management positions in private companies and nonprofit organizations.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15-16 | Completed with a minimum cumulative 3.0 GPA for courses in the minor
- **Additional Information**
- **Related Agricultural Leadership Programs**

Because the minor is interdisciplinary, it draws on the expertise of faculty and staff in colleges across campus, which may include Agricultural and Life Sciences, Business, Health and Human Performance, Journalism and Communications, and Liberal Arts and Sciences.

The minor is open to all students, although admission is by application. A cumulative 3.0 GPA is necessary and the minor must be added before a student completes 90 credits. Students must earn a minimum grade of B in AEC 3414 to continue in the minor.

Required Courses

Code	Title	Credits
AEC 3414	Leadership Development	3
Select two:		6
AEC 3413	Working with People: Interpersonal Leadership Skills	
AEC 4417	Leadership for Personal and Organizational Change	
AEC 4434	Communication and Leadership in Groups and Teams	
AEC 4465	Global Leadership	
FYC 4408	Organizational Leadership for Nonprofits	
Communications elective		3
Ethics elective		3-4
Total Credits		15-16

Approved Electives

Communications Elective

Code	Title	Credits
AEC 3030C	Effective Oral Communication	3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences	3
AEC 3073	Intercultural Communication	3
COM 4930	Special Topics in Communication (Organizational Communication)	3
COM 4930	Special Topics in Communication (Nonverbal Communication)	3
ENC 2210	Technical Writing	3
ENC 3254	Professional Writing in the Discipline	3
GEB 3213	Professional Writing in Business	3
GEB 3218	Professional Speaking in Business	3
MMC 4302	World Communication Systems	3
SDS 4410	Interpersonal Communication Skills	3
SPC 2608	Introduction to Public Speaking	3

Ethics Elective

Code	Title	Credits
AEB 4126	Agricultural and Natural Resource Ethics	3
BUL 4310	The Legal Environment of Business	4
FYC 4114	Ethical Issues in Family, Youth and Community Sciences	3
JOU 4700	Problems and Ethics of Journalism in Society	3
PHI 2630	Contemporary Moral Issues	3
PHI 3693	Ethics of Communication	3
PHI 4662	Ethical Theory 1	3
POS 3263	Policy, Ethics and Public Leadership	3
RTV 4432	Ethics and Problems in Telecommunication	3

Related Agricultural Leadership Programs

- Bachelor of Science in Agricultural Education and Communication (p. 46)

Management and Sales in Agribusiness Minor

This minor provides basic understanding and skills in agribusiness sales and management.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C

The student's academic advisor and the undergraduate coordinator for Food and Resource Economics must approve courses in the minor at least one semester before graduation. AEB 3103 does not count toward the minor.

Required Courses

Code	Title	Credits
AEB 3122	Financial Planning for Agribusiness	3
or AEB 3144	Introduction to Agricultural Finance	
AEB 3133	Principles of Agribusiness Management	3
AEB 3300	Agricultural and Food Marketing	3
AEB 3341	Selling Strategically	3
Approved elective		3
Total Credits		15

Approved Electives

Code	Title	Credits
AEB 3315	Futures Markets and Risk Management in Agriculture	3
AEB 4138	Advanced Agribusiness Management	3
AEB 4309	Food Wholesaling and Retail Marketing	3
AEB 4342	Agribusiness and Food Marketing Management	3
AEB 4343	International Agribusiness Marketing	3
AEB 4424	Human Resources Management in Agribusiness	3

Mapping with Small Unmanned Aerial Systems Certificate

This certificate focuses on mapping using small Unmanned Aerial Systems (UASs) and the use of UASs as a geospatial data-acquisition tool. Well-suited for students studying geomatics, as well as disciplines which require high resolution geospatial information such as agriculture, forestry, wildlife management, mining, infrastructure planning and monitoring, and disaster management.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 9 | Completed with minimum grades of C
- **Contact:** Email (shouder@ufl.edu) | 352.846.0146
- **Related Geomatics Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Students must have a high-school diploma or the equivalent, and completed SUR 3103C with a minimum grade of C.

Required Courses

Code	Title	Credits
SUR 4376	Geospatial Applications of UASs	3
SUR 4501C	Foundations of UAS Mapping	3
SUR 4940C	Practicum in UAS Mapping	3
Total Credits		9

Related Geomatics Programs

- Bachelor of Science in Geomatics (p. 187)
- Geomatics certificate (p. 197)

Marine Sciences | CALS

From oceans to coastal wetlands, students will learn about marine organisms and their behaviors and interactions with the environment. Marine Sciences students study oceanography, statistics, fisheries and aquatic sciences, and invertebrate biodiversity. Students can focus elective courses on ecology, organismal biology, economics, human dimensions, and/or quantitative or professional skills.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Marine Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The university promotes an interdisciplinary approach to marine science education and research to prepare students for a variety of rewarding academic and professional careers. This major, offered cooperatively with the College of Liberal Arts and Sciences, allows students to tailor a curriculum that suits their interests and career goals.

The curriculum provides students with the core scientific and quantitative skills necessary for success. Lower-division courses build a strong foundation in basic sciences and math while upper-division courses provide opportunity for specialization. Students in the College of Agricultural and Life Sciences (CALS) complete an upper-division core that concentrates on biological and ecological marine science essentials while also giving students a critical understanding of how statistics and economics are integrated into marine science and resource management.

Students work closely with a faculty advisor to create an individualized curriculum plan of at least 18 approved elective credits and 15-16 hours of planned credits. These can include courses on resource management, human dimensions, conservation, quantitative population assessment and others. Students must complete their plans along with the approval of a faculty advisor before reaching 70 credits.

Coursework for the Major

The major requires 120 credits and at least 30 credits of upper-division coursework in the major must be completed at UF.

Required Coursework

Code	Title	Credits
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	
FAS 4202C	Biology of Fishes	4
OCE 1001	Introduction to Oceanography	3
STA 2023	Introduction to Statistics 1	3
Select one:		3
FAS 4270	Marine Ecological Processes	
ZOO 4926	Special Topics in Zoology (Marine Ecology)	
FAS 4932	Topics in Fisheries and Aquatic Sciences (Biology and Ecology of Algae)	3
Select one:		3
FNR 3410C	Natural Resource Sampling	
STA 3024	Introduction to Statistics 2	
STA 4210	Regression Analysis	
STA 4222	Sample Survey Design	
FNR 4660	Natural Resource Policy and Economics	3
GLY 3083C	Fundamentals of Marine Sciences	3
MAC 2311	Analytic Geometry and Calculus 1	4
PHY 2004	Applied Physics 1	4
& 2004L	and Laboratory for Applied Physics 1	
ZOO 4205C	Invertebrate Biodiversity	4
Approved marine sciences electives		18

Planned electives, sufficient to reach a total of 60 upper-division credits	15-16
Total Credits	86-87

Related Marine Sciences Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Marine Sciences: Interdisciplinary Studies, CLAS (p. 842)
- Bachelor of Science in Natural Resource Conservation (p. 235)
- Fisheries and Aquatic Sciences minor (p. 142)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=309999&track=01) may be used for transfer students.

Semester 1

- Complete OCE 1001 and 1 of the following, excluding labs: BSC 2010/BSC 2010L, BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2311, PHY 2004/PHY 2004L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
OCE 1001	Introduction to Oceanography (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	16
Semester Two		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	14
Semester Three		
Select one:		4
AEB 3103	Principles of Food and Resource Economics	
ECO 2023	Principles of Microeconomics	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
Gen Ed Composition; Writing Requirement		3
MAC 2312	Analytic Geometry and Calculus 2 (recommended elective)	4
	Credits	15
Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
FAS 2024	Sustainable Fisheries (Recommended elective)	3
	Credits	14
Semester Five		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
Select one:		3
FNR 3410C	Natural Resource Sampling	
STA 3024	Introduction to Statistics 2	
STA 4210	Regression Analysis	
STA 4222	Sample Survey Design	
CHM 2200 & 2200L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory (recommended electives)	4
Elective		3
	Credits	13
Semester Six		
FAS 4932	Topics in Fisheries and Aquatic Sciences	3
GLY 3083C	Fundamentals of Marine Sciences (Gen Ed Biological and Physical Sciences)	3
ZOO 4205C	Invertebrate Biodiversity	4
Approved electives		6
	Credits	16
Semester Seven		
Select one:		3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	

ENC 2210	Technical Writing (Writing Requirement)	
ENC 3254	Professional Writing in the Discipline (Writing Requirement)	
FAS 4202C	Biology of Fishes	4
Select one:		3
FAS 4270	Marine Ecological Processes	
ZOO 4926	Special Topics in Zoology (Marine Ecology)	
FNR 4660	Natural Resource Policy and Economics	3
Elective		3
	Credits	16
Semester Eight		
Approved electives		12
Electives		4
	Credits	16
	Total Credits	120

Approved Electives | 18 Credits Minimum

Students meet with a faculty advisor to establish a curriculum plan for approved electives and planned electives and may focus these toward a specific area or a minor. For a broader program, students should choose a minimum of three credits from each area of approved electives. Other options may include study abroad courses.

Ecology and Organismal Biology

Code	Title	Credits
FAS 2024	Sustainable Fisheries	3
FAS 4305C	Introduction to Fishery Science	3
FAS 4305C	Introduction to Fishery Science	3
FAS 4932	Topics in Fisheries and Aquatic Sciences (Aquatic Invertebrate Ecological Physiology)	3
FAS 4932	Topics in Fisheries and Aquatic Sciences (Field Ecology of Aquatic Organisms)	4
FAS 4932	Topics in Fisheries and Aquatic Sciences (Coral Reef Ecology)	3
FAS 4932	Topics in Fisheries and Aquatic Sciences (Invasion Ecology of Aquatic Animals)	3
PCB 4043C	General Ecology	4
PCB 4674	Evolution	4
VME 4012	Aquatic Animal Conservation Issues	3
VME 4906	Problems in Veterinary Science (Introduction to Marine Wildlife)	3
WIS 3553C	Introduction to Conservation Genetics	4
WIS 4203C	Landscape Ecology and Conservation	3
ZOO 4403C	Marine Biology	4

Economics and Human Dimensions

Code	Title	Credits
AEB 3450	Introduction to Natural Resource and Environmental Economics	3
FOR 3202	Society and Natural Resources (Gen Ed Social and Behavioral Sciences)	3
GEO 4300	Environmental Biogeography	3
SYD 4510	Environment and Society	3
WIS 4523	Human Dimensions of Natural Resource Conservation	3

Physical/Chemical Oceanography

Code	Title	Credits
EGN 4932	Special Topics (Physical Oceanography)	3
GLY 3074	Oceans and Global Climate Change (Gen Ed Physical Sciences)	3
GLY 4734	Coastal Morphology and Processes	3
GLY 4930	Special Topics in Geology (Geochemical Oceanography)	3
OCE 3016	Introduction to Coastal and Oceanographic Engineering	3

Professional Skills

Code	Title	Credits
GIS 3072C	Geographic Information Systems	3
Advanced Open Water and Science Diving		
Practicum or Internship		

Quantitative Ecological Skills

Code	Title	Credits
FAS 4932	Topics in Fisheries and Aquatic Sciences (Applied Fisheries Statistics)	4
FNR 3410C	Natural Resource Sampling [1]	3
STA 3024	Introduction to Statistics 2 [1]	3
STA 4210	Regression Analysis [1]	3
STA 4211	Design of Experiments	3
STA 4222	Sample Survey Design [1]	3
WIS 4501	Introduction to Wildlife Population Ecology	3
WIS 4601C	Quantitative Wildlife Ecology	3

[1] Use as an approved elective if not used to meet the quantitative requirement in semester seven.

Additional Approved Electives | With instructor permission

Code	Title	Credits
FAS 6337C	Fish Population Dynam	4
GLY 6075	Glob Climate Change	3
OCP 6295	Estuar/Shelf Hydro 1	3
ZOO 6406	Biology of Sea Turtle	3
ZOO 6456C	Ichthyology	4

Academic Learning Compact

This interdisciplinary studies major provides integrative understanding of the basic concepts, theories and observational findings related to marine materials and processes, geologic time, the diversity of marine life, the structure and function of marine organisms and ecosystems and marine resource management.

The marine sciences major is administered jointly by the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences and utilizes faculty, courses and resources of the Fisheries and Aquatic Sciences Program (CALS), the Department of Geological Sciences (CLAS), the Department of Biology (CLAS), and the Department of Civil and Coastal Engineering (Herbert Wertheim College of Engineering).

Before Graduating Students Must

- Achieve a passing score on the subject test. The content of the examination has been reviewed and approved by the Marine Sciences Committee.
- Achieve a passing score on the analytical skills test. The content of the examination has been reviewed and approved by the Marine Sciences Committee.
- Achieve a passing score on the bioethics quiz. The content of the examination has been reviewed and approved by the Marine Sciences Committee.
- Achieve a passing score on the scientific literacy paper. This paper is assessed using a rubric that has been reviewed and approved by the Marine Sciences Committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competence in the basic terminology, concepts, methodologies and theories used within the marine sciences.

Critical Thinking

2. Analyze information in the marine sciences and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly, effectively and objectively in written or oral forms appropriate to the marine sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
FAS 4202C	R	R	R	R
FAS 4932 (Biology and Ecology of Algae)	R	R	R	R
GLY 3083C	I	I	I	I
OCE 1001	I		I	I
ZOO 4205C	R	R	R	R
ZOO 4926 (Marine Ecology) or FAS 4932 (Marine Ecological Processes)	A	A	A	A

Assessment Types

- Marine sciences subject and analytical skills tests
- Bioethics quiz
- Scientific paper

Medical Entomology Certificate

The medical entomology certificate offers place-bound employees working in mosquito control, public health, and related areas who required advanced training on medically important arthropods the option to complete a program through distance education and short courses. Coursework provides training in the areas of medically important arthropod biology, identification, and management for disease vectors.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** Email (capinera@ufl.edu) | 352.273.3905

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

Code	Title	Credits
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3

Required Courses

Code	Title	Credits
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3
ENY 4660 & 4660L	Medical and Veterinary Entomology and Medical and Veterinary Entomology Laboratory	3
ENY 4590C	Mosquito Identification	3
ENY 4592	Mosquito Biology	3
Approved elective		3
Total Credits		15

Approved Electives

Code	Title	Credits
ENY 3225C	Principles of Urban Pest Management	3
ENY 3563	Introduction to Tropical Entomology	3
ENY 4210	Insects and Wildlife	3
ENY 4905	Problems in Entomology (Blood Feeding Insects)	1
ENY 4905	Problems in Entomology (Mosquito Management)	1
ENY 5236	Insct/Pest/Vctr Manag	3

Microbiology and Cell Science UF Online

The Bachelor of Science in microbiology and cell science offers a flexible curriculum that develops an excellent knowledge base and an understanding of concepts in microbiology, cell biology and the bio-molecular sciences. Emphasis will be placed on application of the scientific method to gain an understanding of the biological world at the cellular and molecular levels. Students will learn to evaluate hypotheses, interpret experimental data and communicate results effectively.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Microbiology and Cell Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major prepares students for entry into professional programs in medicine, dentistry and veterinary medicine and provides a strong foundation for graduate studies in microbiology, cell biology and related cellular and biomedical sciences. The major also provides a background for entry into government, industrial research and diagnostic laboratories.

The curriculum develops fundamental knowledge of prokaryotic and eukaryotic cells and viruses. Courses include the physiology and genetics of microorganisms, mechanisms of pathogenesis and innate immunity systems, astrobiology, bacterial and genome sequencing and bioinformatics.

Coursework for the Major

All majors must take 28-29 credits: 15 credits are core requirements, 10 credits are upper-division department electives and 3-4 credits are the quantitative requirement. A minimum of one credit in an advanced laboratory is required as part of the 10 department-elective credits.

Minimum grades of C, attained within two attempts (including withdrawals), are required in all critical-tracking courses, major courses, department core requirements, department electives and the quantitative requirement. Second attempts must be completed the next semester of enrollment. A 2.0 cumulative GPA of also is required.

Code	Title	Credits
Required Coursework		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 [1]	4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 [1]	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory [1]	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory [1]	4
MAC 2311	Analytic Geometry and Calculus 1 [1]	4
Select one:		8-10
Option One		
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1	
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2	
Option Two		
PHY 2048 & 2048L	Physics with Calculus 1 and Laboratory for Physics with Calculus 1	
PHY 2049 & 2049L	Physics with Calculus 2 and Laboratory for Physics with Calculus 2	
CHM 2210	Organic Chemistry 1 [2]	3
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
Core Requirements		
BCH 4024 or CHM 3218	Introduction to Biochemistry and Molecular Biology Organic Chemistry/Biochemistry 2	4
MCB 3015C	Lab Skills Bootcamp	1

MCB 3023	Principles of Microbiology	3
Select one: [3]		3
MCB 4203	Bacterial Pathogens (offered fall)	
PCB 4233	Immunology (offered spring)	
Select one:		
MCB 4304	Genetics of Microorganisms (offered fall)	
PCB 4522	Molecular Genetics (offered spring)	
MCB 4934	Special Topics in Microbiology and Cell Science [4]	1-4
Department Elective Requirements		
MCB 4034L	Advanced Microbiology Laboratory	1
Select three:		9
BSC 2891	Python Programming for Biology	
MCB 3703	Astrobiology	
MCB 4203	Bacterial Pathogens	
MCB 4320C	The Microbiome	
MCB 4403	Prokaryotic Cell Structure and Function	
MCB 4503	General Virology	
MCB 4782	Extremophiles	
PCB 3134	Eukaryotic Cell Structure and Function	
ZOO 4232	Human Parasitology	
Quantitative Requirement		
BSC 2891	Python Programming for Biology	3
MCB 4320C	The Microbiome	3
STA 2023	Introduction to Statistics 1	3
General Elective Requirement		
General elective coursework at the University of Florida (any 3000/4000 level course will be accepted) [5]		18
Total Credits		85-90

1 All majors must complete the biology and general chemistry sequences and calculus by the end of the sophomore year. To continue in the major, students must attain a minimum 2.5 cumulative GPA in these graded courses with no grade lower than a C.

2 Must be completed by the end of tracking term five.

3 Students must take MCB 4203 or PCB 4233 as a core course. If they take both, one will count as a core course and the other will roll over into the 10-credit department elective requirement.

4 Often used for TA lab positions. TA positions may be repeated for two semesters with one lab assignment per semester.

5 Enrollment in MCB 4911, MCB 4905 and MCB 4934 will not fulfill any credits toward the microbiology department elective requirements; they will count only as general elective credit toward the 120 credits for the B.S. degree.

Course Details

MCB 4911 may be taken for a maximum of three credits per semester and six credits total. This policy applies to all microbiology and cell science majors registered for undergraduate research in other out-of-department undergraduate research courses such as BCH 4905, BMS 4905, ZOO 4905, etc.

Undergraduate Research

A majority of MCS students are actively involved in undergraduate research for credit with mentors throughout the university. The department encourages preprofessional and graduate school bound students to complete a minimum of two semesters of undergraduate research. The department maintains a list of mentors across campus who allow undergraduate students to participate in valuable research under their guidance. More information (http://microcell.ufl.edu/undergraduate-programs) is available about undergraduate research and faculty mentors who have worked with microbiology and cell science students.

Combined-Degree Program

A Bachelor of Science and Master of Science (non-thesis) program is offered by the College of Agricultural and Life Sciences. Microbiology majors in both the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences are eligible for admission to the combined degree program. Students should email (jorsini@ufl.edu?Subject=Microbiology and Cell Science Combined-Degree Appointment) for an appointment to determine their eligibility for this program.

Preparation for Graduate Study

This major prepares students for entry into graduate studies in microbiology, cell biology, biochemistry and other areas.

All students interested in graduate education should develop a strong background in chemistry. Suggested schedules for students who plan to attend graduate school are available on the website. Students planning graduate study in microbiology, biochemistry or molecular biological sciences should consider taking these courses:

Code	Title	Credits
CHM 3218	Organic Chemistry/Biochemistry 2 (biochemistry requirement)	4
MAC 2312	Analytic Geometry and Calculus 2	4
STA 2023	Introduction to Statistics 1	3
MCB 4403	Prokaryotic Cell Structure and Function (required department elective)	3
PCB 3134	Eukaryotic Cell Structure and Function (required department elective)	3
CHM 3400	Physical Chemistry for the Biosciences (required department elective)	3
MCB 5305L	Microbial Genetics Lab (microbiology advanced laboratory requirement)	2
PCB 4233	Immunology (pathogens or immunology requirement)	3
MCB 4905	Independent Study (valuable laboratory research experience)	4
Total Credits		29

Relevant Minors and/or Certificates

The Department of Microbiology and Cell Science also offers a minor in bioinformatics to students majoring in any life sciences subject, including and not limited to microbiology, biology or biochemistry.

So integrated is bioinformatics with the life sciences that it is difficult to find an active research program that does not rely on bioinformatic analysis to achieve results. By integrating bioinformatic and traditional methods, the minor in bioinformatics provides critical training to future professionals in the life science disciplines.

Related Microbiology and Cell Science Programs

- Bachelor of Science in Microbiology and Cell Science, CALS (p. 229)
- Bachelor of Science in Microbiology and Cell Science, CLAS (p. 863)
- Bioinformatics minor (p. 71)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260503&track=01) may be used for transfer students.

Semester 1

- Complete CHM 1025 or CHM 2045/CHM 2045L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and BSC 2010/BSC 2010L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046/CHM 2046L and MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete CHM 2210
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (Writing Requirement) [1]		3
	Credits	14
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You	
ECO 2013	Principles of Macroeconomics	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	14-15
Semester Three		
CHM 2210	Organic Chemistry 1 (**Critical Tracking**)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Select one:		4-5
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1	
PHY 2048 & 2048L	Physics with Calculus 1 and Laboratory for Physics with Calculus 1	
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14-15
Semester Four		
Select one:		3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	
ENC 2210	Technical Writing (Writing Requirement)	
CHM 2211 & 2211L & MCB 4934	Organic Chemistry 2 and Organic Chemistry Laboratory and Special Topics in Microbiology and Cell Science	6-9
MCB 3023 & MCB 3015C & MCB 4934	Principles of Microbiology and Lab Skills Bootcamp and Special Topics in Microbiology and Cell Science	5
Gen Ed Composition (Writing Requirement)		3
	Credits	17-20
Semester Five		
BCH 4024 or CHM 3218	Introduction to Biochemistry and Molecular Biology or Organic Chemistry/Biochemistry 2	4
Select one:		4-5

PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
SPC 2608	Introduction to Public Speaking	3
Gen Ed Diversity		3
	Credits	14-15
Semester Six		
PCB 4522	Molecular Genetics	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Department elective		3
Elective		3
International elective		3
	Credits	15
Semester Seven		
MCB 4203	Bacterial Pathogens	3
Departmental electives		6
Elective		1
Elective (3000 level or above)		3
Writing Requirement		3
	Credits	16
Semester Eight		
MCB 4034L	Advanced Microbiology Laboratory	1
Electives		15
	Credits	16
	Total Credits	120

[1] ENC 1101 recommended.

Academic Learning Compact

The Bachelor of Science in microbiology and cell science, offered by both the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences, offers students flexibility in a curriculum that develops an excellent knowledge base and an understanding of concepts in microbiology, cell biology and the biomolecular sciences. Emphasis will be placed on application of the scientific method to gain an understanding of the biological world at the cellular and molecular levels. Students will learn to evaluate hypotheses, to interpret experimental data and to communicate results effectively.

Before Graduating Students Must

- Pass a microbiology and cell sciences competency test consisting of four parts, one part from each of these required courses:

Code	Title	Credits
MCB 3023	Principles of Microbiology	3
MCB 3023L	Principles of Microbiology Laboratory	3
& MCB 4034L	and Advanced Microbiology Laboratory (or equivalent)	
MCB 4203	Bacterial Pathogens	3
or PCB 4233	Immunology	
MCB 4304	Genetics of Microorganisms	3
or PCB 4522	Molecular Genetics	
Total Credits		12

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental concepts, skills and processes in microbiology, molecular biology and in host/pathogen interactions.
2. Apply fundamental concepts, skills and protocols used to conduct research in fields of microbiology, molecular biology and in host/pathogen.

Critical Thinking

3. Evaluate information and data in the general areas of microbiology and the cellular and molecular biological sciences.
4. Solve typical problems that are encountered in general areas of microbiology and cellular and molecular biological sciences.

Communication

5. Communicate effectively in written form in a manner appropriate in microbiology and the cellular and molecular biological sciences.
6. Communicate orally (including visual aids) in an effective manner appropriate in microbiology and the cellular and molecular biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
MCB 3023	I, A		I	I		
MCB 3023L	I, R	I, R	R	I, R, A		R
MCB 4034L	I, R	I, R, A	I, R, A	I, R	R	I, R
MCB 4203 or PCB 4233	I, R, A	I, R	I, R	I, R	I, R	I, R
MCB 4304 or PCB 4522	I, R, A	I, R	R, A	R	R	R

Assessment Types

- Genome and lab projects
- Presentations
- Exams
- Final grades

Microbiology and Cell Sciences | CALS

The study of small living organisms, Microbiology and Cell Science includes emphasis on molecular biology and genetics; immunology; virology; host-pathogen interactions; cellular ultrastructure; environmental microbiology; and microbial physiology, metabolism and regulation. Microbiology and Cell Science students study chemistry, physics, bacterial pathogens, and genetics.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Microbiology and Cell Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major prepares students for entry into professional programs in medicine, dentistry and veterinary medicine and provides a strong foundation for graduate studies in microbiology, cell biology and related cellular and biomedical sciences. The major also provides a background for entry into government, industrial research and diagnostic laboratories.

The curriculum develops fundamental knowledge of prokaryotic and eukaryotic cells and viruses. Courses include the physiology and genetics of microorganisms, mechanisms of pathogenesis and innate immunity systems, astrobiology, bacterial and genome sequencing and bioinformatics.

Coursework for the Major

All majors must take 28 credits: 18 credits are core requirements, 7 credits are department electives and 3 credits are the quantitative requirement. A minimum of one credit in an advanced laboratory is required as part of the 7 department-elective credits.

Minimum grades of C, attained within two attempts (including withdrawals), are required in all critical-tracking courses, major courses, department core requirements, department electives and the quantitative requirement. Second attempts must be completed the next semester of enrollment. A 2.0 cumulative GPA of also is required.

Required Coursework

Code	Title	Credits
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	
MAC 2311	Analytic Geometry and Calculus 1	4
Select one:		8-10
Option One		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option Two		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
CHM 2210	Organic Chemistry 1	3
CHM 2211	Organic Chemistry 2	5
& 2211L	and Organic Chemistry Laboratory	
Total Credits		36-38

All majors must complete the biology and general chemistry sequences and calculus by the end of the sophomore year. CHM 2210 must be completed by the end of tracking term five. To continue in the major, students must attain a minimum 2.5 cumulative GPA in these graded courses with no grade lower than a C.

Core Requirements

Code	Title	Credits
BSC 2891	Python Programming for Biology	3
or MCB 4325C	R for Functional Genomics	
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
or CHM 3218	Organic Chemistry/Biochemistry 2	
MCB 3023	Principles of Microbiology	5
& 3023L	and Principles of Microbiology Laboratory	
MCB 4203	Bacterial Pathogens	3
or PCB 4233	Immunology	
MCB 4304	Genetics of Microorganisms	3
or PCB 4522	Molecular Genetics	
MCB 4403	Prokaryotic Cell Structure and Function	3
or PCB 3134	Eukaryotic Cell Structure and Function	
Total Credits		21

If students take both "or" classes, one will count as a core course and the other will roll over into the 7-credit department elective requirement.

Department Elective Requirements

A total of 7 credits of approved department electives, including one credit in an advanced lab, are required. The list of approved department electives is available on the department website. A maximum of four credits of approved department electives may be taken in other departments. The remaining six credits must be chosen from approved department electives.
More Info (http://microcell.ufl.edu/undergraduate-programs)

Programming or Biostatistics with Programming Requirement

A total of 3 credits of approved courses meets this requirement. Select from BSC 2891, MCB 4325C, or any equivalent programming class. Several of these courses are also department electives and cannot be used to fulfill both the quantitative and the department elective requirements. No overlap is allowed. STA 2023 will not fulfill this requirement.

Course Details

MCB 4911 may be taken for a maximum of three credits per semester and six credits total. This policy applies to all microbiology and cell science majors registered for undergraduate research in other out-of-department undergraduate research courses such as BCH 4905, BMS 4905, ZOO 4905, etc.

MCB 4934 is often used for TA positions as Supervised Teaching. TA positions may be repeated for two semesters with one lab assignment per semester.

Enrollment in MCB 4911, MCB 4905, and MCB 4934 will not fulfill any credits toward the microbiology department elective requirements; they will count only as general elective credit toward the 120 credits for the B.S. degree.

Relevant Minors and/or Certificates

The Department of Microbiology and Cell Science also offers a minor in bioinformatics to students majoring in any biology-related subject, including and not limited to microbiology, biology, or biochemistry.
More Info (p. 71)

So integrated is bioinformatics with biology that it is difficult to find an active research program that does not rely on bioinformatic analysis to achieve results. Unfortunately, the integration of bioinformatic and traditional methods is not stressed in many undergraduate programs, leaving the next generation of biologists without the skills they need to succeed in tomorrow's research environment. The undergraduate minor in bioinformatics provides this critical training to future professionals in the biological disciplines.

Research

A majority of majors are actively involved in undergraduate research for credit with mentors throughout the university. Preprofessional and graduate school-bound majors are encouraged to do a minimum of two semesters of undergraduate research. The department has a comprehensive list of mentors across campus who allow undergraduate students to do valuable research under their guidance. Please refer to the department website for more information on undergraduate research, finding a mentor and a contact list of UF faculty who have worked with microbiology and cell science majors.
More Info (http://microcell.ufl.edu/programs)

Enrollment in MCB 4911 will not fulfill any credits toward the microbiology major requirements; they will count only as general elective credit toward the 120 credits for the B.S. degree.

Related Microbiology and Cell Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Microbiology and Cell Science, CLAS (p. 863)
- Bachelor of Science in Microbiology and Cell Science, UF Online (p. 224)
- Bioinformatics minor (p. 71)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260503&track=01) may be used for transfer students.

Semester 1

- Complete CHM 1025 or CHM 2045/CHM 2045L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046/CHM 2046L and BSC 2010/BSC 2010L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete CHM 2210
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S).

Degree Comparison between the Colleges

CALS | MCB	CLAS | MCY
Effective Oral Communication (AEC 3030C, SPC 2608)	College-level Foreign Language Sequence (8-10 credits)
Technical Writing (ENC 2210, ENC 3254, AEC 3033C)	1 additional Humanity course
Economics (ECO 2013, ECO 2023, AEB 2014)	1 additional Social Science course

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**)	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement [1]		3
	Credits	14
Semester Two		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
BSC 2891	Python Programming for Biology	3
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	14
Semester Three		
Select one:		3-4
AEB 2014	Economic Issues, Food and You	
AEB 3103	Principles of Food and Resource Economics	
ECO 2013	Principles of Macroeconomics	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	4
CHM 2210	Organic Chemistry 1 (**Critical Tracking**)	3

State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	13-14
Semester Four		
AEC 3033C or ENC 2210	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement) or Technical Writing	3
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
MCB 3023 & 3023L	Principles of Microbiology and Principles of Microbiology Laboratory (**Critical Tracking**)	5
Science Elective		3
	Credits	16
Semester Five		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
MCB 4203 or PCB 4233	Bacterial Pathogens (**Critical Tracking**) [2] or Immunology	3
MCB 4403 or PCB 3134	Prokaryotic Cell Structure and Function (**Critical Tracking**) or Eukaryotic Cell Structure and Function	3
Gen Ed Diversity		3
Electives		5
	Credits	17
Semester Six		
BCH 4024 or CHM 3218	Introduction to Biochemistry and Molecular Biology or Organic Chemistry/Biochemistry 2	4
MCB 4304 or PCB 4522	Genetics of Microorganisms [3] or Molecular Genetics	3
MCB 4034L	Advanced Microbiology Laboratory	1
Gen Ed Mathematics		3
Department elective		3
	Credits	14
Semester Seven		
Select one:		4-5
PHY 2048 & 2048L	Physics with Calculus 1 and Laboratory for Physics with Calculus 1	
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1	
State Core Gen Ed Humanities (p. 23)		3
Writing Requirement		3
Department elective		3
Elective		3
	Credits	16-17
Semester Eight		
Select one:		4-5
PHY 2049 & 2049L	Physics with Calculus 2 and Laboratory for Physics with Calculus 2	
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2	
State Core Gen Ed Humanities (p. 23)		3
Gen Ed International		3
Department elective		3
Elective		3
	Credits	16-17
	Total Credits	120

1 ENC 1101 recommended.

2 MCB 4203 is taught only in the fall; PCB 4233 is taught only in the spring.

3 MCB 4304 is taught only in the fall; PCB 4522 is taught only in the spring.

A 2.5 GPA with minimum grades of C in the bolded science and math courses listed above is required to continue in the major after Semester 4.

Academic Learning Compact

The Bachelor of Science in microbiology and cell science, offered by both the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences, offers students flexibility in a curriculum that develops an excellent knowledge base and an understanding of concepts in microbiology, cell biology and the biomolecular sciences. Emphasis will be placed on application of the scientific method to gain an understanding of the biological world at the cellular and molecular levels. Students will learn to evaluate hypotheses, to interpret experimental data and to communicate results effectively.

Before Graduating Students Must

- Pass a microbiology and cell sciences competency test consisting of four parts, one part from each of these required courses:

Code	Title	Credits
MCB 3023	Principles of Microbiology	3
MCB 3023L & MCB 4034L	Principles of Microbiology Laboratory and Advanced Microbiology Laboratory (or equivalent)	3
MCB 4203 or PCB 4233	Bacterial Pathogens Immunology	3
MCB 4304 or PCB 4522	Genetics of Microorganisms Molecular Genetics	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental concepts, skills and processes in microbiology, molecular biology and in host/pathogen interactions.
2. Apply fundamental concepts, skills and protocols used to conduct research in fields of microbiology, molecular biology and in host/pathogen.

Critical Thinking

3. Evaluate information and data in the general areas of microbiology and the cellular and molecular biological sciences.
4. Solve typical problems that are encountered in general areas of microbiology and cellular and molecular biological sciences.

Communication

5. Communicate effectively in written form in a manner appropriate in microbiology and the cellular and molecular biological sciences.
6. Communicate orally (including visual aids) in an effective manner appropriate in microbiology and the cellular and molecular biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
MCB 3023	I, A		I	I		
MCB 3023L	I, R	I, R	R	I, R, A		R
MCB 4034L	I, R	I, R, A	I, R, A	I, R	R	I, R
MCB 4203 or PCB 4233	I, R, A	I, R	I, R	I, R	I, R	I, R
MCB 4304 or PCB 4522	I, R, A	I, R	R, A	R	R	R

Assessment Types

- Genome and lab projects
- Presentations
- Exams
- Final grades

Natural Resource Conservation

Conservationists protect and sustain our world's natural resources for future generations. Well-versed in economics and communications, Natural Resource Conservation students are equipped with strong analytical, critical thinking, and interpersonal skills. Natural Resource Conservation students study chemistry; biology; ecology; and forest, wildlife, fisheries, and aquatic resources.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree**: Bachelor of Science in Forest Resources and Conservation
- **Credits for Degree:** 120
- **Contact:** Email (khaselier@ufl.edu?Subject=Natural Resource Conservation Major)
- **Additional Information**
- **Related Natural Resource Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Natural Resource Conservation (NRC) major provides students an interdisciplinary curriculum preparing them to address a broad range of natural resource-related issues. The core set of courses provides students with a solid foundation in natural history (floral and faunal), ecology, policy and economics, field applications, quantitative assessment and analysis, human dimensions, and spatial analysis. Working with a faculty advisor, students can elect to focus on a wide range of natural resource-related courses. In the required capstone experience, students demonstrate their understanding and proficiency in the core skill sets, as well as further develop their area of concentration.

Graduates seek advanced degrees in a variety of fields, or are successfully employed in a wide range of environmental careers. The major is cooperatively offered by faculty in the School of Forest Resources & Conservation, the Department of Wildlife Ecology and Conservation, and the Program in Fisheries and Aquatic Sciences, and students are paired with one of these faculty members to develop a curriculum that suits their needs. Students interested in more structured and/or accredited curricula in professional natural resource management are encouraged to look at majors in Forest Resources and Conservation, Wildlife Ecology and Conservation, or Interdisciplinary Studies | Marine Sciences.

All NRC majors are required to complete core work in nine content areas (minimum 25 credits): professional seminar, ecology, quantitative analysis and assessment, natural history, human dimensions, policy and economics, field applications, spatial analysis, and capstone experience. These courses embrace a variety of conservation objectives and span local to global scales. They stress the complexities in achieving social, environmental, and economic sustainability; develop critical thinking skills; create significant and valuable field experience; and provide the tools needed for graduates to manage, conserve, and educate people about natural resources.

Students work closely with a faculty advisor to select the remaining 35 upper-division credits to create a curriculum plan designed to meet the specific goals of each student. Each curriculum plan must be approved by the program's undergraduate coordinator before the student reaches 70 credits.

This major is also offered at the West Florida Research and Education Center in Milton, FL. Ideal for place-bound students, this version of the NRC major provides a broad ecology/conservation curriculum.

Related Natural Resource Conservation Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Forest Resources and Conservation (p. 235)
- Bachelor of Science in Interdisciplinary Studies | Marine Sciences | CALS (p. 218)
- Bachelor of Science in Wildlife Ecology and Conservation (p. 304)
- Wildlife Ecology and Conservation minor (p. 313)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=030501&track=01) may be used for transfer students.

Semester 1

- Complete at least 1 of 7 critical-tracking courses (excluding labs): AEB 2014 or ECO 2013 or ECO 2023, AEC 3030C or SPC 2608, AEC 3033C, BSC 2010/BSC 2010L, CHM 1030 or CHM 2045, MAC 1105, STA 2023

- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete at least 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete at least 2 additional critical-tracking course, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete at least 2 additional critical-tracking courses, excluding labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**)	
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
FOR 2662	Forests for the Future (recommended; Gen Ed Social and Behavioral Sciences and Diversity)	3
Elective		3
	Credits	15
Semester Two		
MAC 1105	Basic College Algebra (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	3
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
FAS 2024	Sustainable Fisheries (recommended; or elective)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	16
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (**Critical Tracking**; Writing Requirement) [2]	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
FOR 3004	Forests, Conservation and People (recommended; or elective)	3
Gen Ed Composition		3
Elective		2
	Credits	14

Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
PHY 2020	Introduction to Principles of Physics (recommended; Gen Ed Physical Sciences)	3
State Core Gen Ed Humanities (p. 23)		3
Elective [3]		3
	Credits	15-16
Summer After Semester Four		
Summer B		
Select one:		3
FOR 3200C	Foundations of Natural Resources and Conservation	
FOR 4934	Topics in Natural Resources (Professional Practice in Natural Resources)	
	Credits	3
Semester Five		
Select one:		3-4
FAS 4202C	Biology of Fishes	
FNR 3131C	Dendrology/Forest Plants (fall only)	
WIS 3402 & 3402L	Wildlife of Florida and Wildlife of Florida Laboratory (spring only)	
Select one:		3-4
FAS 4932	Topics in Fisheries and Aquatic Sciences (Applied Fisheries Statistics)	
FNR 3410C	Natural Resource Sampling	
WIS 4601	Quantitative Wildlife Ecology	
WIS 4945C	Wildlife Techniques	
Select one:		3-4
FAS 4270	Marine Ecological Processes	
FAS 4932	Topics in Fisheries and Aquatic Sciences (Freshwater Ecology)	
FOR 3153C	Forest Ecology	
WIS 3404	Natural Resource Ecology	
WIS 4443	Wetland Ecology	
FOR 3434C or GIS 3072C	Forest Resources Information Systems or Geographic Information Systems	3
	Credits	12-15
Semester Six		
Select one:		3
FOR 3202	Society and Natural Resources	
FOR 4060	Global Forests	
FOR 4934	Topics in Natural Resources (Environment and Society)	
Approved courses		12
	Credits	15
Semester Seven		
Select one:		3
FAS 4305C	Introduction to Fishery Science	
FAS 4932	Topics in Fisheries and Aquatic Sciences (Field Ecology of Aquatic Organisms)	
FNR 4070C	Environmental Education Program Development	
FNR 4624C	Field Operations for Management of Ecosystems	
FOR 3214 & 3214L	Fire Ecology and Management and Fire Ecology and Management Laboratory	
FOR 4664	Sustainable Ecotourism Development	
WIS 4427C	Wildlife Habitat Management	
FNR 4660 or FOR 4621	Natural Resource Policy and Economics or Forest Economics and Management	3
Approved courses		9
	Credits	15
Semester Eight		
Select one:		3

FAS 4905	Individual Study	
FOR 4905	Individual Study in Natural Resources	
FOR 4934	Topics in Natural Resources	
& FNR 4623C	and Integrated Natural Resource Management	
FOR 4941	Internship in Natural Resources	
WIS 4905	Individual Problems	
Approved courses		12
	Credits	15
	Total Credits	120

1 Or higher level course.

2 May substitute ENC 2210 or ENC 3254.

3 FAS 2024 recommended, if not already taken.

Approved Courses

Given the flexible, advisor/student-driven nature of this major, students may deviate significantly from this plan relative to course timing. As part of their curriculum plan, students are required to complete at least one course from the following nine content areas:

Code	Title	Credits
Professional Seminar		
FOR 3200C	Foundations of Natural Resources and Conservation	3
FOR 4934	Topics in Natural Resources (Professional Practice in Natural Resources)	1-4
Ecology		
FAS 4270	Marine Ecological Processes	3
FAS 4932	Topics in Fisheries and Aquatic Sciences (Freshwater Ecology)	1-4
FOR 3153C	Forest Ecology	3
WIS 3404	Natural Resource Ecology	3
WIS 4443	Wetland Ecology	3
Quantitative Analysis and Assessment		
FAS 4932	Topics in Fisheries and Aquatic Sciences	1-4
FNR 3410C	Natural Resource Sampling	3
WIS 4601	Quantitative Wildlife Ecology	3
WIS 4935C	Wildlife Techniques	3
Natural History		
FAS 4202C	Biology of Fishes	4
FNR 3131C	Dendrology/Forest Plants	3
WIS 3402	Wildlife of Florida	4
& 3402L	and Wildlife of Florida Laboratory	
Human Dimensions		
FOR 3202	Society and Natural Resources	3
FOR 4060	Global Forests	3
FOR 4934	Topics in Natural Resources (Environment and Society)	1-4
Policy and Economics		
FNR 4660	Natural Resource Policy and Economics	3
FOR 4621	Forest Economics and Management	4
Field Applications		
FAS 4305C	Introduction to Fishery Science	3
FAS 4932	Topics in Fisheries and Aquatic Sciences (Field Ecology of Aquatic Organisms)	1-4
FNR 4070C	Environmental Education Program Development	3
FNR 4624C	Field Operations for Management of Ecosystems	3
FOR 3214	Fire Ecology and Management	3
& 3214L	and Fire Ecology and Management Laboratory	
FOR 4664	Sustainable Ecotourism Development	3
WIS 4427C	Wildlife Habitat Management	3
Spatial Analysis		
FOR 3434C	Forest Resources Information Systems	3
GIS 3072C	Geographic Information Systems	3
Capstone Experience		
FAS 4905	Individual Study	1-4
FOR 4905	Individual Study in Natural Resources	1-4

FOR 4934	Topics in Natural Resources	6
& FNR 4623C	and Integrated Natural Resource Management (Integrated Management and Assessment)	
FOR 4941	Internship in Natural Resources	1-4
WIS 4905	Individual Problems	1-4

The summer term between the junior and senior year is normally reserved for professional work experience.

Academic Learning Compact

The natural resource conservation major provides a broad education in the ecological, economic and social aspects of forest and natural resources and their management. The individualized nature of the major allows students to create a curriculum specific to their interests.

Before Graduating Students Must

- Pass the forest resources and conservation competency exam, given in five parts. One part will be given in each of these required courses:

Code	Title	Credits
FNR 3131C	Dendrology/Forest Plants	3
FNR 3410C	Natural Resource Sampling	3
FNR 4040C		
FNR 4623C	Integrated Natural Resource Management	3
FNR 4660	Natural Resource Policy and Economics	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competency in biology/ecology, quantification, policy/administration and management of natural resources.
2. Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

Critical Thinking

3. Solve novel problems in natural resource management.

Communication

4. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
FOR 3153C	I	I	R	I
FOR 3200C	I	I	I	I
FOR 3202	I		R	R
FNR 3131C	I			I
FNR 3410C	I	I		
FNR 4623C	R	R	A	A
FNR 4624C	R	R		
FNR 4660	I		R	R
Exit Exam	A	A		

Assessment Types

- Group project
- Presentation
- Final exam

Nonprofit Organizational Leadership Minor

The nonprofit organizational leadership minor provides the knowledge and competencies to perform a variety of roles in nonprofit organizations, for-profit companies and corporations, and government agencies at the local, state, and national levels.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 18-19 | Completed with minimum grades of C and an overall 2.5 GPA for courses in the minor

The minor is open to all UF students and it must be added before a student completes 90 credits. A cumulative 2.5 GPA is necessary for admission to the minor. Students must earn a minimum grade of B in FYC 4409 to continue in the minor; this course also is a prerequisite for the internship or practicum.

The minor draws primarily from the faculty in Family, Youth and Community Sciences. Electives can be taken from the colleges of Agricultural and Life Sciences, Business, Liberal Arts and Sciences, Journalism and Communications, and Education.

Required Courses

Code	Title	Credits
FYC 4408	Organizational Leadership for Nonprofits	3
or FYC 4428	Human Resource Management for Nonprofits	
FYC 4409	Working with Nonprofit Organizations in Community Settings	3
FYC 4410	Fund Raising for Community Nonprofit Organizations	3
FYC 4426	Risk Management in Nonprofit Organizations	3
or FYC 4622	Planning and Evaluating Family, Youth and Community Science Programs	
FYC 4941	Practicum in Family, Youth and Community Sciences	3
Approved elective		3-4
Total Credits		18-19

Approved Electives

Code	Title	Credits
ACG 2021	Introduction to Financial Accounting	4
AEB 4126	Agricultural and Natural Resource Ethics	3
AEB 4424	Human Resources Management in Agribusiness	3
FYC 4114	Ethical Issues in Family, Youth and Community Sciences	3
FYC 4427	Non-Governmental Organizations	3
POS 3263	Policy, Ethics and Public Leadership	3
SDS 4410	Interpersonal Communication Skills	3

Nutritional Sciences

The Nutritional Sciences major encompasses all aspects of the consumption and utilization of food by people and animals as well as how these processes affect the health of individuals and populations. Nutritional Sciences students study organic chemistry, physics, food science, genetics, nutrition, biology of microorganisms, and diseases.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Food Science and Human Nutrition Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The nutritional sciences curriculum develops a strong, broad background in the biological sciences, and provides an excellent foundation for graduate study/research in nutrition, health and many other life sciences. Its requirements also closely match the prerequisites for most professional schools. As a result, graduates from this curriculum have entered medical, dental, pharmacy, osteopathis, podiatry, optometry, chiropractic, physician assistant, veterinary and other professional programs. Other career opportunities include pharmaceutical sales, extension nutrition education, nutrition policy

development and employment with government agencies. Nutritional sciences is one of the majors available to students accepted into the Junior Honors Medical Program or the Honors Combined BS/DMD Program.

Related Food Science and Human Nutrition Programs

- Bachelor of Science in Dietetics (p. 110)
- Bachelor of Science in Food Science (p. 152)
- Food Science minor (p. 155)
- Nutritional Sciences minor (p. 243)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011001&track=03) may be used for transfer students.

Semester 1

- Complete CHM 2045/CHM 2045L or MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046/CHM 2046L and BSC 2010/BSC 2010L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Humanities (p. 23)		3
Elective		1
	Credits	15
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
AEB 3103	Principles of Food and Resource Economics (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	

ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Electives		4
	Credits	14-15
Semester Three		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2210	Organic Chemistry 1 (minimum grade of C required within two attempts, including withdrawals)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Gen Ed Composition		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16
Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
HUN 2201	Fundamentals of Human Nutrition	3
Elective		3
	Credits	15
Semester Five		
AEC 3030C	Effective Oral Communication	3
BCH 3025 or BCH 4024	Fundamentals of Biochemistry or Introduction to Biochemistry and Molecular Biology	4
FOS 3042	Introductory Food Science	3
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1	5
	Credits	15
Semester Six		
HUN 3403	Nutrition through the Life Cycle	2
Select one:		3-4
PCB 3063	Genetics	
AGR 3303	Genetics	
MCB 4304	Genetics of Microorganisms	
PCB 4522	Molecular Genetics	
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2	5
Electives		5
	Credits	15-16
Semester Seven		
HUN 4445	Nutrition and Disease: Part 1	2
PCB 4723C or APK 2105C	Physiology and Molecular Biology of Animals or Applied Human Physiology with Laboratory	4-5
Approved science course		3-4
Approved science laboratory		1-2
Select 4 elective credits		4
	Credits	14-17
Semester Eight		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
HUN 4221	Nutrition and Metabolism	3
HUN 4446	Nutrition and Disease: Part 2	3
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	4
Elective		3
	Credits	16
	Total Credits	120

Additional electives may be needed to complete the 120 credits required for graduation.

Academic Learning Compact

Nutritional sciences integrates knowledge of biological principles to interpret emerging knowledge of cellular and physiological systems. Students' knowledge of biochemical processes and nutrient functions will enable them to interpret effects of changes in nutrient availability on metabolic functions. Students will utilize their knowledge of nutrient requirements, food sources and physiological systems to determine nutrient and dietary needs of individuals in various life-cycle stages and/or with nutrition-related diseases.

Before Graduating Students Must

- Satisfactorily complete three examinations in HUN 4221. Examinations will be developed, approved and evaluated by a faculty committee.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Use knowledge of nutrient functions, food sources and physiological systems to determine nutrient and dietary needs of individuals in various life-cycle stages and/or with nutrition-related diseases.
2. Use knowledge of biochemical processes and nutrient functions to interpret effects of changes in nutrient availability.
3. Integrate knowledge of biological principles to interpret emerging knowledge of cellular and physiological systems.

Critical Thinking

4. Analyze data and interpret results in the nutritional sciences.

Communication

5. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
AEC 3030C					I, R, A
AEC 3033C					I, R, A
BCH 3025	R	R	R	R	
HUN 2201	I	I	I	I	
HUN 3403	R	R		R	
HUN 4221	A	A	A		
HUN 4445	R	R	R	R	
HUN 4446	R	R	R	R	

Assessment Types

- Exams
- Speeches
- Papers

Nutritional Sciences Minor

The nutritional sciences minor provides an overview of nutrients, nutrient requirements throughout the life cycle, and metabolic regulation of nutritional pathways.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15-16 | Completed with minimum grades of C and a minimum cumulative 2.5 GPA for courses in the minor
- **Related Food Science and Human Nutrition Programs**

While the minor is open to all students, it is particularly appropriate for biology, microbiology and cell science, and zoology majors; and students who are interested in medicine, dentistry, and pharmacy.

Required Courses

Code	Title	Credits
HUN 2201	Fundamentals of Human Nutrition	3
HUN 3403	Nutrition through the Life Cycle	2
HUN 4221	Nutrition and Metabolism	3
HUN 4445	Nutrition and Disease: Part 1	2
Approved electives		5-6
Total Credits		15-16

Approved Electives

Code	Title	Credits
FOS 3042	Introductory Food Science	3
HUN 4446	Nutrition and Disease: Part 2	3
HUN 4905	Special Problems in Human Nutrition	1-3
HUN 4936	Topics in Human Nutrition (Nutrition Communication and Education in Health Care)	3
HUN 4936	Topics in Human Nutrition (Preventative Health)	2
HUN 4936	Topics in Human Nutrition	3

Related Food Science and Human Nutrition Programs

- Bachelor of Science in Dietetics (p. 110)
- Bachelor of Science in Food Science (p. 152)
- Bachelor of Science in Nutritional Sciences (p. 240)
- Food Science minor (p. 155)

Organic and Sustainable Crop Production Minor

The Department of Horticultural Sciences offers this interdisciplinary minor which encompasses organic and sustainable practices in horticulture and plant science.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with a minimum cumulative 2.0 GPA for courses in the minor
- **Contact:** Email (zxin@ufl.edu) | 352.273.4773

This minor is open to any student.

Required Courses

Code	Title	Credits
AGR 4212	Alternative Cropping Systems	3
HOS 3281C	Organic and Sustainable Crop Production	3
Crop production elective		3
Pest management elective		3
Resource management elective		3
Total Credits		15

Approved Electives

Crop Production Elective

Code	Title	Credits
AGR 4268C	Sustainable Agriculture Systems Analysis	3
GEO 3427	Plants, Health and Spirituality	3
HOS 4283C	Advanced Organic and Sustainable Crop Production	3

PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
VEC 2100	World Herbs and Vegetables	3

Pest Management Elective

Code	Title	Credits
ENY 3030C	Insect Field Biology	3
IPM 3022	Fundamentals of Pest Management	3
PLP 3103C	Control of Plant Diseases	3
PLS 4601C	Principles of Weed Science	3
PMA 4570C	Field Techniques in IPM	2

Resource Management Elective

Code	Title	Credits
ALS 3133	Agricultural and Environmental Quality	3
ALS 3153	Agricultural Ecology	3
SWS 4231C	Soil, Water and Land Use	3
SWS 4233	Soil and Water Conservation	3

Packaging Science Minor

Packaging science is an excellent area of concentration for students in engineering science and business-related disciplines. All companies that produce physical products deal with packaging. Most companies employ teams of packaging professionals from a variety of backgrounds and disciplines. Packaging plays a key role in competitive advantage in the marketplace, and packaging is always changing and improving.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Graded courses completed with minimum grades of C
- **Contact:** Frazier Rogers Hall (http://campusmap.ufl.edu/?loc=0474)

This minor is open to all students.

The packaging industry requires creative thinkers and problem solvers to continue to improve environmental sustainability, quality and packaging efficiency. This minor provides exposure to the tools and knowledge required to solve practical problems in packaging and will help students to gain employment in the packaging industry.

Students applying for the minor must obtain written approval from their academic advisor and the undergraduate coordinator in packaging science at least two semesters before graduation.

This minor offered by the College of Agricultural and Life Sciences differs from the Packaging Engineering specialization in the Biological Engineering degree. While both sets of curriculum use overlapping courses, the major is available only available to students of the Herbert Wertheim College of Engineering.

Required Courses

Code	Title	Credits
Select four:		12
PKG 3001	Principles of Packaging	
PKG 3103	Food Packaging	
PKG 4008	Distribution and Transport Packaging	
PKG 4011	Packaging Production and Processing	
PKG 4101C	Computer Tools for Packaging	
Advisor-approved technical elective		3
Total Credits		15

Advisor-approved Technical Elective

- Selected from approved electives in:
  - Packaging
  - Food Science
  - Materials Science and Engineering

- Chemical Engineering
- Mechanical Engineering
- Computer Science & Engineering
- Industrial Engineering
- Horticultural Science
- Biological Science
- Marketing
- Advertising

- Other electives, including internships and co-ops, are subject to approval of the packaging science minor advisor.

Pest Control Technology Certificate

Established in 1870, the mission of the College of Agricultural and Life Sciences is to deliver unsurpassed educational programs that prepare students to address the world's critical challenges related to agriculture, food systems, human well-being, natural resources and sustainable communities.

Contact

2020 McCarty Hall D
P.O. Box 110270
University of Florida
Gainesville, FL 32611-0270
352.392.1963

Map (http://campusmap.ufl.edu/?loc=0498) More Info (http://cals.ufl.edu)

Academic Advising
2020 McCarty Hall D
352.392.1963

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 24 | Completed with minimum grades of C
- **Contact:**
- Email (brumbaugh@ufl.edu) | 352.273.3912 *or*
- Email (pgk@ufl.edu) | 352.392.2484

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The pest control technology certificate is awarded upon completion of specific coursework in entomology and pest management that satisfies the academic requirements of Florida state statute 482, which requires 24 semester credits plus one year of employment to qualify to take the Florida Pest Control Operator's license examination.

There are no prerequisite courses, but students are advised to remember the requirement of a year's employment to qualify to take the licensing exam.

Required Courses

Code	Title	Credits
ENY 4230	Urban Pesticide Application	3
IPM 3022	Fundamentals of Pest Management	3
IPM 4254	Landscape Integrated Pest Management: Ornamentals and Turf	3
Additional courses from the Urban Pest Management and Landscape Pest Management certificates [1]		15
Total Credits		24

[1] Choose from additional courses listed in the Urban Pest Management (p. 304) and Landscape Pest Management (p. 215) certificates.

Plant Molecular and Cellular Biology Minor

The Horticultural Sciences Department facilitates this interdisciplinary minor, a cooperative effort of the departments of Agronomy, Environmental Horticulture, Horticultural Sciences, Plant Pathology and Microbiology and Cell Science. It is particularly appropriate for students majoring in horticultural science, microbiology and cell science, and plant science, although it is available to students in other majors.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 17-20 | Completed with minimum grades of C
- **Contact:** Email (zxin@ufl.edu) | 352.273.4773

The minor offers academic training and hands-on experience in current laboratory techniques and helps students prepare for graduate school or lab positions in plant biotechnology.

Prerequisites

Code	Title	Credits
Select one:		4
BOT 2011C	Plant Diversity	
BSC 2011	Integrated Principles of Biology 2	
& 2011L	and Integrated Principles of Biology Laboratory 2	
CHM 2210	Organic Chemistry 1	3
CHM 2211	Organic Chemistry 2	3

Required Courses

Code	Title	Credits
HOS 3305	Introduction to Plant Molecular Biology	3
HOS 4313C	Laboratory Methods in Plant Molecular Biology	2
Biochemistry elective		4
Genetics elective		3
Physiology elective		3
Approved elective		2-5
Total Credits		17-20

Approved Electives

Biochemistry Electives

Code	Title	Credits
BCH 3025	Fundamentals of Biochemistry	4
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
CHM 3217	Organic Chemistry/Biochemistry 1	4

Genetics Electives

Code	Title	Credits
AGR 3303	Genetics	3
MCB 4304	Genetics of Microorganisms	3
PCB 3063	Genetics	4
PCB 4522	Molecular Genetics	3

Physiology Electives

Code	Title	Credits
BOT 3503	Physiology and Molecular Biology of Plants	3
HOS 4304	Horticultural Physiology	3

Electives

Code	Title	Credits
MCB 3020	Basic Biology of Microorganisms	3
MCB 5305L	Microbial Genetics Lab	2

PLS 4242C	Micropropagation of Horticultural Crops	4
XXX 4905	Individual Studies in PMCB [1]	3-5

[1] Individual studies courses are registered by the department prefix appropriate to the student's major.

Plant Science

Plant scientists sustain and improve our current and future world as they work with foods, fibers, fuel, flowers, pharmaceuticals, urban forests, soil health, plant pests, and our natural environs. Plant Science students study biology, plant morphology and physiology, chemistry, entomology, physics, soil and water sciences, plant identification, plant pathology, plant propagation, and environmental horticulture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degrees:** Bachelor of Arts | Bachelor of Science
- **Specializations:** Community Food Systems (p. 249) | General Plant Science (p. 254) | Greenhouse and Landscape Industries (p. 258) | Native Plant Conservation (p. 263) | Plant Breeding and Genetics (p. 267) | Plant Health and Protection (p. 272) | Soil Management and Plant Productivity (p. 277) | Sustainable Crop Production (p. 282) | Turfgrass Science (p. 286)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Plant Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The plant science degree offers diverse specializations that provide a wide range of professional opportunities. The specializations provide students with an interdisciplinary perspective of these areas and pursue coursework that tracks them into a variety of job opportunities.

The University of Florida offers some of the specializations in this major to transfer students who have the appropriate credentials through the statewide programs at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, the Mid-Florida Research and Education Center in Apopka, or the West Florida Research and Education Center in Milton.

Course Requirements

Bachelor of Science

Designed for students with different professional objectives. All students, regardless of degree or specialization, are required to take an introductory plant science course, an introductory statistics course, an economics course, a technical writing course, a speech course, a soil science course, a plant physiology course, a plant pathology course, a professional development course, and a capstone experience course. All students must also complete an internship related to their area of interest.

Bachelor of Arts

Designed for students who want to learn about contemporary food systems from an interdisciplinary perspective. All students are required to take an introductory plant science course, a capstone experience course, and must complete an internship related to their area of interest.

Each specialization has a specific set of required core courses and a number of upper-division electives to choose from that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. Upper-division electives are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Related Plant Science Programs

- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Academic Learning Compact

The plant science major, offered jointly by the departments of Agronomy and Plant Pathology, enables students to apply principles associated with production and improvement of agronomic crops. Students will acquire knowledge about the scientific fundamentals of plant growth of field and forage crops. They will acquire knowledge about fungi, bacteria and viruses, as well as environmental factors that cause plant disease. This program prepares students to work in the lab and field settings and to develop applied skills for research and extension.

Before Graduating Students Must

- Complete a research paper and an oral presentation with satisfactory faculty evaluation.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe plant growth and development in terms of plant morphology and physiology and evaluate the abiotic and biotic factors that impact plant growth and management.
2. Recommend practices that growers and managers can implement to address the abiotic and biotic components of their cropping system.

Critical Thinking

3. Analyze and apply science-based data to solve problems in plant production, distribution and/or utilization.
4. Design and evaluate a project that addresses a problem or challenge related to their area of interest.

Communication

5. Create, interpret and analyze written text and multimedia presentations.
6. Communicate effectively through oral and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
PLS 3004C	I	I	I	I		
PLS 4932	A	A	A	A	A	A
PLS 4941	R	R	R	R	R	R

Assessment Types

- Standardized post-test
- Capstone and individual projects
- Final grades

Plant Science | Community Food Systems

Plant scientists sustain and improve our current and future world as they work with foods, fibers, fuel, flowers, pharmaceuticals, urban forests, soil health, plant pests, and our natural environs. Plant Science students study biology, plant morphology and physiology, chemistry, entomology, physics, soil and water sciences, plant identification, plant pathology, plant propagation, and environmental horticulture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degrees:** Bachelor of Arts | Bachelor of Science
- **Specializations:** Community Food Systems (p. 249) | General Plant Science (p. 254) | Greenhouse and Landscape Industries (p. 258) | Native Plant Conservation (p. 263) | Plant Breeding and Genetics (p. 267) | Plant Health and Protection (p. 272) | Soil Management and Plant Productivity (p. 277) | Sustainable Crop Production (p. 282) | Turfgrass Science (p. 286)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Plant Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The plant science degree offers diverse specializations that provide a wide range of professional opportunities. The specializations provide students with an interdisciplinary perspective of these areas and pursue coursework that tracks them into a variety of job opportunities.

The University of Florida offers some of the specializations in this major to transfer students who have the appropriate credentials through the statewide programs at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, the Mid-Florida Research and Education Center in Apopka, or the West Florida Research and Education Center in Milton.

Course Requirements

Bachelor of Science

Designed for students with different professional objectives. All students, regardless of degree or specialization, are required to take an introductory plant science course, an introductory statistics course, an economics course, a technical writing course, a speech course, a soil science course, a plant physiology course, a plant pathology course, a professional development course, and a capstone experience course. All students must also complete an internship related to their area of interest.

Bachelor of Arts

Designed for students who want to learn about contemporary food systems from an interdisciplinary perspective. All students are required to take an introductory plant science course, a capstone experience course, and must complete an internship related to their area of interest.

Each specialization has a specific set of required core courses and a number of upper-division electives to choose from that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. Upper-division electives are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Related Plant Science Programs

- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Bachelor of Arts | Community Food Systems

This specialization is for students who want to learn about contemporary food systems from an interdisciplinary perspective. Students will learn about different food production systems and their ecological and environmental impacts and services, including consideration of political, economic, ethical, social and cultural aspects of food systems. Graduates could work in community or government food-based programs, urban agriculture and the food industry.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011101&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical-tracking courses, excluding labs: AEB 2014 or ECO 2013 or ECO 2023; BOT 2010C or BSC 2010/BSC 2010L; BOT 2011C or BSC 2011/BSC 2011L; CHM 1030; MAC 1147
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Biological or Physical Sciences (p. 23)		2
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Semester Two		
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Select one:		3
ESC 1000	Introduction to Earth Science (Gen Ed Physical Sciences)	
GEO 2200	Physical Geography (Gen Ed Physical Sciences)	
PHY 2004	Applied Physics 1 (Gen Ed Physical Sciences)	
PHY 2020	Introduction to Principles of Physics (Gen Ed Physical Sciences)	
SWS 2007	The World of Water (Gen Ed Physical Sciences)	
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16
Semester Three		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; Gen Ed Physical Sciences)	3
HUN 2201	Fundamentals of Human Nutrition	3
Select one:		3
Gen Ed Humanities		
Gen Ed Social and Behavioral Sciences		
	Credits	15-16
Semester Four		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3

CHM 1031	Basic Chemistry Concepts and Applications 2 (Gen Ed Biological and Physical Sciences)	3
Select one (Gen Ed Physical Sciences):		3
ESC 1000	Introduction to Earth Science	
GEO 2200	Physical Geography	
PHY 2004	Applied Physics 1	
PHY 2020	Introduction to Principles of Physics	
SWS 2007	The World of Water	
Gen Ed Composition; Writing Requirement		3
Elective		2
	Credits	14
Semester Five		
FYC 3001	Principles of Family, Youth and Community Sciences	3
PLS 3004C	Principles of Plant Science	3
Cultural and social issues elective		3
Ecology and the environment elective		3
Ethics elective		3
	Credits	15
Semester Six		
SWS 3022	Introduction to Soils in the Environment	3
Business and organizational management elective		3
Ecology and the environment elective		3
Economic issues elective		3
Production issues elective		3
	Credits	15
Summer After Semester Six		
PLS 4941	Practical Work Experience	3
	Credits	3
Semester Seven		
URP 4000	Preview of Urban and Regional Planning	3
Approved elective		3
Business and organizational management elective		3
Cultural and social issues elective		3
Economic issues elective		3
	Credits	15
Semester Eight		
PLS 4950	Plant Science Capstone	3
URP 4273	Survey of Planning Information Systems	3
Approved elective		3
Production issues elective		3
	Credits	12
	Total Credits	120

Approved Electives | Minimum 39 Credits

Choose courses from each focus area; minimum credits for each area listed below. Students must consult with their advisor for assistance in selecting the designated listed electives in order to take applicable and appropriate courses for the students' job and career aspirations. Consult an advisor for other options, which may include study abroad courses.

Ethics | Minimum 3 Credits

Code	Title	Credits
AEB 4126	Agricultural and Natural Resource Ethics	3
REL 3171	Ethics in America	3

Ecology and the Environment | Minimum 6 Credits

Code	Title	Credits
AGG 3501	Environment, Food and Society	3
AGR 4212	Alternative Cropping Systems	3
ALS 3133	Agricultural and Environmental Quality	3
AOM 2520	Global Sustainable Energy: Past, Present and Future	3

GEO 3372	Conservation of Resources	3
IPM 3022	Fundamentals of Pest Management	3

Cultural and Social Issues | Minimum 6 Credits

Code	Title	Credits
EES 4103	Applied Ecology (Food and Culture)	2
FYC 3401	Introduction to Social and Economic Perspectives on the Community	3
FYC 4126	Urban and Rural America in Transition	3
GEA 1000	Geography for a Changing World	3
GEO 2410	Social Geography	3
GEO 2420	Introduction to Human Geography	3
SYD 4020	Population	3
URP 3001	Cities of the World	3

Production Issues | Minimum 6 Credits

Code	Title	Credits
AGR 4214C	Applied Field Crop Production	3
AGR 4932	Agronomy Topics (Tropical Cropping Systems)	3
GEO 3315	Geography of Crop Plants	3
HOS 3281C	Organic and Sustainable Crop Production	3
PLS 2003C	Plants That Feed the World	3
VEC 2100	World Herbs and Vegetables	3

Economic Issues | Minimum 6 Credits

Code	Title	Credits
AEB 3450	Introduction to Natural Resource and Environmental Economics	3
AEB 3671	Comparative World Agriculture	3
AEB 4123	Agricultural and Natural Resource Law	3
AEB 4283	International Development Policy	3
GEO 2500	Global and Regional Economies	3
GEO 3502	Economic Geography	3

Business and Organizational Management | Minimum 6 Credits

Code	Title	Credits
AEC 3413	Working with People: Interpersonal Leadership Skills	3
AEC 3414	Leadership Development	3
FYC 4408	Organizational Leadership for Nonprofits	3
FYC 4409	Working with Nonprofit Organizations in Community Settings	3
FYC 4410	Fund Raising for Community Nonprofit Organizations	3
FYC 4426	Risk Management in Nonprofit Organizations	3
PUR 3000	Principles of Public Relations	3

Academic Learning Compact

The plant science major, offered jointly by the departments of Agronomy and Plant Pathology, enables students to apply principles associated with production and improvement of agronomic crops. Students will acquire knowledge about the scientific fundamentals of plant growth of field and forage crops. They will acquire knowledge about fungi, bacteria and viruses, as well as environmental factors that cause plant disease. This program prepares students to work in the lab and field settings and to develop applied skills for research and extension.

Before Graduating Students Must

- Complete a research paper and an oral presentation with satisfactory faculty evaluation.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe plant growth and development in terms of plant morphology and physiology and evaluate the abiotic and biotic factors that impact plant growth and management.
2. Recommend practices that growers and managers can implement to address the abiotic and biotic components of their cropping system.

Critical Thinking

3. Analyze and apply science-based data to solve problems in plant production, distribution and/or utilization.
4. Design and evaluate a project that addresses a problem or challenge related to their area of interest.

Communication

5. Create, interpret and analyze written text and multimedia presentations.
6. Communicate effectively through oral and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
PLS 3004C	I	I	I	I		
PLS 4932	A	A	A	A	A	A
PLS 4941	R	R	R	R	R	R

Assessment Types

- Standardized post-test
- Capstone and individual projects
- Final grades

Plant Science | General Plant Science

Plant scientists sustain and improve our current and future world as they work with foods, fibers, fuel, flowers, pharmaceuticals, urban forests, soil health, plant pests, and our natural environs. Plant Science students study biology, plant morphology and physiology, chemistry, entomology, physics, soil and water sciences, plant identification, plant pathology, plant propagation, and environmental horticulture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degrees:** Bachelor of Arts | Bachelor of Science
- **Specializations:** Community Food Systems (p. 249) | General Plant Science (p. 254) | Greenhouse and Landscape Industries (p. 258) | Native Plant Conservation (p. 263) | Plant Breeding and Genetics (p. 267) | Plant Health and Protection (p. 272) | Soil Management and Plant Productivity (p. 277) | Sustainable Crop Production (p. 282) | Turfgrass Science (p. 286)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Plant Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The plant science degree offers diverse specializations that provide a wide range of professional opportunities. The specializations provide students with an interdisciplinary perspective of these areas and pursue coursework that tracks them into a variety of job opportunities.

The University of Florida offers some of the specializations in this major to transfer students who have the appropriate credentials through the statewide programs at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, the Mid-Florida Research and Education Center in Apopka, or the West Florida Research and Education Center in Milton.

Course Requirements

Bachelor of Science

Designed for students with different professional objectives. All students, regardless of degree or specialization, are required to take an introductory plant science course, an introductory statistics course, an economics course, a technical writing course, a speech course, a soil science course, a plant physiology course, a plant pathology course, a professional development course, and a capstone experience course. All students must also complete an internship related to their area of interest.

Bachelor of Arts

Designed for students who want to learn about contemporary food systems from an interdisciplinary perspective. All students are required to take an introductory plant science course, a capstone experience course, and must complete an internship related to their area of interest.

Each specialization has a specific set of required core courses and a number of upper-division electives to choose from that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. Upper-division electives are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Related Plant Science Programs

- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Bachelor of Science | General Plant Science

This specialization focuses on the biology and science of growing plants. It combines courses in propagation, plant identification and use, soils and plant nutrition, plant diseases, weed identification, and insects to give students a well-rounded background on plant management. This specialization develops skills that allow students to increase plant productivity and improve plant quality with less labor while controlling pests and weeds safely and effectively. Career opportunities include research and development, plant management, plant production, and preparation for graduate school. Employment opportunities exist in laboratories, government agencies, and commercial operations.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011101&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical-tracking courses, excluding labs: BOT 2010C or BSC 2010/BSC 2010L; BOT 2011C or BSC 2011/BSC 2011L; CHM 2045/CHM 2045L; ECO 2013; MAC 1147
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities and International)	3
	Credits	13-14
Semester Two		
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
ENC 2210	Technical Writing (Gen Ed Composition; Writing Requirement: 6,000 words)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
	Credits	13
Semester Three		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
AMH 2020	United States Since 1877 (Gen Ed Social and Behavioral Sciences and Diversity)	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
	Credits	14
Semester Four		
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1 (Gen Ed Biological and Physical Sciences)	4
PLS 3004C	Principles of Plant Science (Gen Ed Biological and Physical Sciences)	3
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Biological and Physical Sciences)	4
	Credits	14

Summer After Semester Four		
ORH 3513	Environmental Plant Identification and Use	3
& 3513L	and Environmental Plant Identification and Use Laboratory	
Elective (Writing Requirement: 6,000 words)		3
	Credits	6
Semester Five		
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences; Writing Requirement: 6,000 words)	3
BCH 3023	Elementary Organic and Biological Chemistry	3
PLP 3002C	Fundamentals of Plant Pathology	4
PLS 4601C	Principles of Weed Science	3
Approved elective		3
	Credits	16
Semester Six		
AGR 4512 or HOS 4304	Physiology and Ecology of Crops or Horticultural Physiology	3
Approved electives		9
	Credits	12
Summer After Semester Six		
PLS 4941	Practical Work Experience	3
	Credits	3
Semester Seven		
PLS 3223	Plant Propagation	3
& 3223L	and Plant Propagation Laboratory	
Approved electives		11
	Credits	14
Semester Eight		
ORH 4933	Professional Seminar in Environmental Horticulture	1
PLS 4950	Plant Science Capstone	3
Approved electives		11
	Credits	15
	Total Credits	120

Approved Electives | Minimum 34 Credits

Choose courses from the focus areas below. Students must consult with their advisor for assistance in selecting the designated listed electives in order to take applicable and appropriate courses for the students' job and career aspirations. Consult an advisor for other options, which may include study abroad courses.

Code	Title	Credits
Entomology and Pest Management		
AOM 3333	Pesticide Application Techniques	3
ENY 3510C	Turf and Ornamental Entomology	3
ENY 4161	Insect Classification	3
ENY 4573	Beekeeping	3
IPM 3022	Fundamentals of Pest Management	3
IPM 4254	Landscape Integrated Pest Management: Ornamentals and Turf	3
NEM 3002	Principles of Nematology	3
Plants and Soils		
BOT 2710C	Practical Plant Taxonomy	3
BOT 3503	Physiology and Molecular Biology of Plants	3
BOT 4650	Plant Symbiosis	3
BOT 4935/5225C	Special Topics	4
BSC 2862	Global Change Ecology and Sustainability	3
ORH 3222C	Turfgrass Culture	4
ORH 3253C	Introductory Nursery Management	4
ORH 4236C	Ornamental Landscape Management	3
ORH 4242C	Arboriculture	4
ORH 4256	Nutritional Management of Nursery Crops	3
ORH 4264	Greenhouse and Nursery Crop Culture	3
ORH 4280	Orchidology	3

ORH 4804 & 4804L	Annual and Perennial Gardening and Annual and Perennial Gardening Laboratory	3
ORH 4848	Landscape Plant Establishment	2
PLS 4242C	Micropropagation of Horticultural Crops	4
SWS 4116	Environmental Nutrient Management	3
Agribusiness		
AEB 3133	Principles of Agribusiness Management	3
AEB 3341	Selling Strategically	3
AEB 4424	Human Resources Management in Agribusiness	3

Academic Learning Compact

The plant science major, offered jointly by the departments of Agronomy and Plant Pathology, enables students to apply principles associated with production and improvement of agronomic crops. Students will acquire knowledge about the scientific fundamentals of plant growth of field and forage crops. They will acquire knowledge about fungi, bacteria and viruses, as well as environmental factors that cause plant disease. This program prepares students to work in the lab and field settings and to develop applied skills for research and extension.

Before Graduating Students Must

- Complete a research paper and an oral presentation with satisfactory faculty evaluation.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe plant growth and development in terms of plant morphology and physiology and evaluate the abiotic and biotic factors that impact plant growth and management.
2. Recommend practices that growers and managers can implement to address the abiotic and biotic components of their cropping system.

Critical Thinking

3. Analyze and apply science-based data to solve problems in plant production, distribution and/or utilization.
4. Design and evaluate a project that addresses a problem or challenge related to their area of interest.

Communication

5. Create, interpret and analyze written text and multimedia presentations.
6. Communicate effectively through oral and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
PLS 3004C	I	I	I	I		
PLS 4932	A	A	A	A	A	A
PLS 4941	R	R	R	R	R	R

Assessment Types

- Standardized post-test
- Capstone and individual projects
- Final grades

Plant Science | Greenhouse and Landscape Industries

Plant scientists sustain and improve our current and future world as they work with foods, fibers, fuel, flowers, pharmaceuticals, urban forests, soil health, plant pests, and our natural environs. Plant Science students study biology, plant morphology and physiology, chemistry, entomology, physics, soil and water sciences, plant identification, plant pathology, plant propagation, and environmental horticulture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degrees:** Bachelor of Arts | Bachelor of Science
- **Specializations:** Community Food Systems (p. 249) | General Plant Science (p. 254) | Greenhouse and Landscape Industries (p. 258) | Native Plant Conservation (p. 263) | Plant Breeding and Genetics (p. 267) | Plant Health and Protection (p. 272) | Soil Management and Plant Productivity (p. 277) | Sustainable Crop Production (p. 282) | Turfgrass Science (p. 286)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Plant Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The plant science degree offers diverse specializations that provide a wide range of professional opportunities. The specializations provide students with an interdisciplinary perspective of these areas and pursue coursework that tracks them into a variety of job opportunities.

The University of Florida offers some of the specializations in this major to transfer students who have the appropriate credentials through the statewide programs at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, the Mid-Florida Research and Education Center in Apopka, or the West Florida Research and Education Center in Milton.

Course Requirements

Bachelor of Science

Designed for students with different professional objectives. All students, regardless of degree or specialization, are required to take an introductory plant science course, an introductory statistics course, an economics course, a technical writing course, a speech course, a soil science course, a plant physiology course, a plant pathology course, a professional development course, and a capstone experience course. All students must also complete an internship related to their area of interest.

Bachelor of Arts

Designed for students who want to learn about contemporary food systems from an interdisciplinary perspective. All students are required to take an introductory plant science course, a capstone experience course, and must complete an internship related to their area of interest.

Each specialization has a specific set of required core courses and a number of upper-division electives to choose from that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. Upper-division electives are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Related Plant Science Programs

- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Bachelor of Science | Greenhouse and Landscape Industries

This specialization provides skills and training for employment in the diverse ornamental horticulture industry, including theme parks, plant production facilities, and landscape management and landscape design firms. It studies the improvement of the human environment through proper selection, propagation, production, and placement of plants in the exterior and interior landscapes. It also combines business and plant production courses to provide the skills needed to manage a plant production facility or landscape firm.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011101&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical-tracking courses, excluding labs: BOT 2010C or BSC 2010/BSC 2010L; BOT 2011C or BSC 2011/BSC 2011L; CHM 2045/CHM 2045L; ECO 2013; MAC 1147

- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities and International)	3
	Credits	13-14
Semester Two		
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
ENC 2210	Technical Writing (Gen Ed Composition; Writing Requirement: 6,000 words)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
	Credits	13
Semester Three		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
AMH 2020	United States Since 1877 (Gen Ed Social and Behavioral Sciences and Diversity)	3

CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
	Credits	14
Semester Four		
Select one:		3
AEB 3133	Principles of Agribusiness Management	
AEB 3341	Selling Strategically	
AEB 4424	Human Resources Management in Agribusiness	
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1	4
PLS 3004C	Principles of Plant Science	3
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Biological and Physical Sciences)	4
	Credits	14
Summer After Semester Four		
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3
Elective (Writing Requirement: 6,000 words)		3
	Credits	6
Semester Five		
BCH 3023	Elementary Organic and Biological Chemistry	3
ORH 3513C	Environmental Plant Identification and Use	3
ORH 3253C or ORH 4236C	Introductory Nursery Management or Ornamental Landscape Management	3-4
PLP 3002C	Fundamentals of Plant Pathology	4
	Credits	13-14
Semester Six		
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences; Writing Requirement: 6,000 words)	3
AGR 4512 or HOS 4304	Physiology and Ecology of Crops or Horticultural Physiology	3
Approved electives		9
	Credits	15
Summer After Semester Six		
PLS 4941	Practical Work Experience	3
	Credits	3
Semester Seven		
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
PLS 4601C	Principles of Weed Science	3
Approved electives		9
	Credits	15
Semester Eight		
ORH 4933	Professional Seminar in Environmental Horticulture	1
PLS 4950	Plant Science Capstone	3
Approved electives		10
	Credits	14
	Total Credits	120

Approved Electives | Minimum 28 Credits

Choose courses from the areas below and focus electives toward a specific minor or area of expertise. An advisor can help establish a plan for these electives. For a broader program, choose a minimum of three credits from each area. Students must consult with their advisor for assistance in selecting the designated listed electives in order to take applicable and appropriate courses for the students' job and career aspirations. Consult an advisor for other options, which may include study abroad courses.

Code	Title	Credits
Entomology and Pest Management		
AOM 3333	Pesticide Application Techniques	3
ENY 3510C	Turf and Ornamental Entomology	3
ENY 4161	Insect Classification	3
ENY 4573	Beekeeping	3
IPM 3022	Fundamentals of Pest Management	3
IPM 4254	Landscape Integrated Pest Management: Ornamentals and Turf	3
NEM 3002	Principles of Nematology	3
Plants and Soils		
AOM 3734	Irrigation Principles and Practices in Florida	3
EVR 3323	Introduction to Ecosystem Restoration	4
LDE 4404C	Advanced Residential Landscape Design	3
ORH 2752	Sensory Gardening	2
ORH 3222C	Turfgrass Culture	4
ORH 3253C	Introductory Nursery Management	4
ORH 3773 & 3773L	Public Gardens and Public Gardens Laboratory	4
ORH 3815C	Florida Native Landscaping	3
ORH 4223	Golf and Sports Turf Management	2
ORH 4236C	Ornamental Landscape Management	3
ORH 4242C	Arboriculture	4
ORH 4256	Nutritional Management of Nursery Crops	3
ORH 4264	Greenhouse and Nursery Crop Culture	3
ORH 4280	Orchidology	3
ORH 4804 & 4804L	Annual and Perennial Gardening and Annual and Perennial Gardening Laboratory	3
ORH 4848	Landscape Plant Establishment	2
PLS 4242C	Micropropagation of Horticultural Crops	4
SWS 4116	Environmental Nutrient Management	3
WIS 4443C	Wetland Wildlife Ecology	4
Agribusiness		
AEB 3133	Principles of Agribusiness Management	3
AEB 3144	Introduction to Agricultural Finance	3
AEB 3300	Agricultural and Food Marketing	3
AEB 3341	Selling Strategically	3
AEB 4424	Human Resources Management in Agribusiness	3

Academic Learning Compact

The plant science major, offered jointly by the departments of Agronomy and Plant Pathology, enables students to apply principles associated with production and improvement of agronomic crops. Students will acquire knowledge about the scientific fundamentals of plant growth of field and forage crops. They will acquire knowledge about fungi, bacteria and viruses, as well as environmental factors that cause plant disease. This program prepares students to work in the lab and field settings and to develop applied skills for research and extension.

Before Graduating Students Must

- Complete a research paper and an oral presentation with satisfactory faculty evaluation.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe plant growth and development in terms of plant morphology and physiology and evaluate the abiotic and biotic factors that impact plant growth and management.
2. Recommend practices that growers and managers can implement to address the abiotic and biotic components of their cropping system.

Critical Thinking

3. Analyze and apply science-based data to solve problems in plant production, distribution and/or utilization.
4. Design and evaluate a project that addresses a problem or challenge related to their area of interest.

Communication

5. Create, interpret and analyze written text and multimedia presentations.
6. Communicate effectively through oral and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
PLS 3004C	I	I	I	I		
PLS 4932	A	A	A	A	A	A
PLS 4941	R	R	R	R	R	R

Assessment Types

- Standardized post-test
- Capstone and individual projects
- Final grades

Plant Science | Native Plant Conservation

Plant scientists sustain and improve our current and future world as they work with foods, fibers, fuel, flowers, pharmaceuticals, urban forests, soil health, plant pests, and our natural environs. Plant Science students study biology, plant morphology and physiology, chemistry, entomology, physics, soil and water sciences, plant identification, plant pathology, plant propagation, and environmental horticulture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degrees:** Bachelor of Arts | Bachelor of Science
- **Specializations:** Community Food Systems (p. 249) | General Plant Science (p. 254) | Greenhouse and Landscape Industries (p. 258) | Native Plant Conservation (p. 263) | Plant Breeding and Genetics (p. 267) | Plant Health and Protection (p. 272) | Soil Management and Plant Productivity (p. 277) | Sustainable Crop Production (p. 282) | Turfgrass Science (p. 286)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Plant Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The plant science degree offers diverse specializations that provide a wide range of professional opportunities. The specializations provide students with an interdisciplinary perspective of these areas and pursue coursework that tracks them into a variety of job opportunities.

The University of Florida offers some of the specializations in this major to transfer students who have the appropriate credentials through the statewide programs at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, the Mid-Florida Research and Education Center in Apopka, or the West Florida Research and Education Center in Milton.

Course Requirements

Bachelor of Science

Designed for students with different professional objectives. All students, regardless of degree or specialization, are required to take an introductory plant science course, an introductory statistics course, an economics course, a technical writing course, a speech course, a soil science course, a plant physiology course, a plant pathology course, a professional development course, and a capstone experience course. All students must also complete an internship related to their area of interest.

Bachelor of Arts

Designed for students who want to learn about contemporary food systems from an interdisciplinary perspective. All students are required to take an introductory plant science course, a capstone experience course, and must complete an internship related to their area of interest.

Each specialization has a specific set of required core courses and a number of upper-division electives to choose from that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. Upper-division electives are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Related Plant Science Programs

- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Bachelor of Science | Native Plant Conservation

This specialization prepares students to apply concepts of plant conservation and ecology to control invasive plants and establish, manage, and protect native plant communities, primarily in natural areas. Students also develop skills necessary for native plant propagation for ecological restoration and sustainable landscapes.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011101&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 6 critical-tracking courses, excluding labs: BOT 2010C or BSC 2010/BSC 2010L; BOT 2011C or BSC 2011/BSC 2011L; CHM 2045/CHM 2045L; CHM 2046/CHM 2046L; ECO 2013; MAC 1147
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities and International)	3
	Credits	13-14
Semester Two		
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
ENC 2210	Technical Writing (Gen Ed Composition; Writing Requirement: 6,000 words)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
	Credits	13
Semester Three		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
AMH 2020	United States Since 1877 (Gen Ed Social and Behavioral Sciences and Diversity)	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
	Credits	14
Semester Four		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Biological and Physical Sciences)	4
WIS 3401	Wildlife Ecology and Management	3
	Credits	14
Summer After Semester Four		
BOT 3151C	Local Flora of North Florida	3
Elective (Writing Requirement: 6,000 words)		3
	Credits	6
Semester Five		
BCH 3023	Elementary Organic and Biological Chemistry	3
ORH 3513C	Environmental Plant Identification and Use (Gen Ed Biological and Physical Sciences)	3
PCB 2441	Biological Invaders (Gen Ed Biological and Physical Sciences)	3
PLP 3002C	Fundamentals of Plant Pathology (Gen Ed Biological and Physical Sciences)	4
PLS 3004C	Principles of Plant Science (Gen Ed Biological and Physical Sciences)	3
	Credits	16
Semester Six		
EVR 3323	Introduction to Ecosystem Restoration	4
ORH 4933	Professional Seminar in Environmental Horticulture	1
PCB 3601C	Plant Ecology	3

PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1	4
	Credits	12
Summer After Semester Six		
PLS 4941	Practical Work Experience	3
	Credits	3
Semester Seven		
AGR 4512 or HOS 4304	Physiology and Ecology of Crops or Horticultural Physiology	3
ORH 4848	Landscape Plant Establishment	2
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
PLS 4601C	Principles of Weed Science	3
PLS 4613	Aquatic Weed Control	3
	Credits	14
Semester Eight		
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences; Writing Requirement: 6,000 words)	3
PCB 4043C	General Ecology	4
PLS 4950	Plant Science Capstone	3
Approved electives		5
	Credits	15
	Total Credits	120

Approved Electives | Minimum 5 Credits

Students must consult with their advisor for assistance in selecting the designated listed electives in order to take applicable and appropriate courses for the students' job and career aspirations. Consult an advisor for other options, which may include study abroad courses.

Code	Title	Credits
ALS 3133	Agricultural and Environmental Quality	3
ALS 3153	Agricultural Ecology	3
ALS 4154	Global Agroecosystems	3
AOM 3333	Pesticide Application Techniques	3
BOT 2710C	Practical Plant Taxonomy	3
BOT 3503	Physiology and Molecular Biology of Plants	3
BOT 4650	Plant Symbiosis	3
BOT 4935/5225C	Special Topics (Plant Anatomy)	4
BSC 2862	Global Change Ecology and Sustainability	3
EES 4050	Environmental Planning and Design	3
EES 4103	Applied Ecology	2
EVS 3000	Environmental Science	3
FOR 3214	Fire Ecology and Management	2
FOR 4110	Ecology and Restoration of Longleaf Pine Ecosystems	3
FOR 3153C	Forest Ecology	3
FOR 4090C	Urban Forestry	3
GIS 4121	Geospatial Analysis	3
LDE 4404C	Advanced Residential Landscape Design	3
ORH 3815C	Florida Native Landscaping	3
ORH 4932	Special Topics in Environmental Horticulture (Hydroponic Systems)	2
PLS 4242C	Micropropagation of Horticultural Crops	4
STA 3024	Introduction to Statistics 2	3
SWS 4244	Wetlands	3
SWS 4720C	GIS in Soil and Water Science	3
SWS 4800	Environmental Soil and Water Monitoring Techniques	3
WIS 3402	Wildlife of Florida	3
WIS 4203C	Landscape Ecology and Conservation	3
WIS 4427C	Wildlife Habitat Management	3
WIS 4934	Topics in Wildlife Ecology and Conservation (Wetland Management and Research Techniques)	3

Academic Learning Compact

The plant science major, offered jointly by the departments of Agronomy and Plant Pathology, enables students to apply principles associated with production and improvement of agronomic crops. Students will acquire knowledge about the scientific fundamentals of plant growth of field and forage crops. They will acquire knowledge about fungi, bacteria and viruses, as well as environmental factors that cause plant disease. This program prepares students to work in the lab and field settings and to develop applied skills for research and extension.

Before Graduating Students Must

- Complete a research paper and an oral presentation with satisfactory faculty evaluation.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe plant growth and development in terms of plant morphology and physiology and evaluate the abiotic and biotic factors that impact plant growth and management.
2. Recommend practices that growers and managers can implement to address the abiotic and biotic components of their cropping system.

Critical Thinking

3. Analyze and apply science-based data to solve problems in plant production, distribution and/or utilization.
4. Design and evaluate a project that addresses a problem or challenge related to their area of interest.

Communication

5. Create, interpret and analyze written text and multimedia presentations.
6. Communicate effectively through oral and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
PLS 3004C	I	I	I	I		
PLS 4932	A	A	A	A	A	A
PLS 4941	R	R	R	R	R	R

Assessment Types

- Standardized post-test
- Capstone and individual projects
- Final grades

Plant Science | Plant Breeding and Genetics

Plant scientists sustain and improve our current and future world as they work with foods, fibers, fuel, flowers, pharmaceuticals, urban forests, soil health, plant pests, and our natural environs. Plant Science students study biology, plant morphology and physiology, chemistry, entomology, physics, soil and water sciences, plant identification, plant pathology, plant propagation, and environmental horticulture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degrees:** Bachelor of Arts | Bachelor of Science
- **Specializations:** Community Food Systems (p. 249) | General Plant Science (p. 254) | Greenhouse and Landscape Industries (p. 258) | Native Plant Conservation (p. 263) | Plant Breeding and Genetics (p. 267) | Plant Health and Protection (p. 272) | Soil Management and Plant Productivity (p. 277) | Sustainable Crop Production (p. 282) | Turfgrass Science (p. 286)
- **Credits for Degree:** 120

- **Additional Information**
- **Related Plant Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The plant science degree offers diverse specializations that provide a wide range of professional opportunities. The specializations provide students with an interdisciplinary perspective of these areas and pursue coursework that tracks them into a variety of job opportunities.

The University of Florida offers some of the specializations in this major to transfer students who have the appropriate credentials through the statewide programs at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, the Mid-Florida Research and Education Center in Apopka, or the West Florida Research and Education Center in Milton.

Course Requirements

Bachelor of Science

Designed for students with different professional objectives. All students, regardless of degree or specialization, are required to take an introductory plant science course, an introductory statistics course, an economics course, a technical writing course, a speech course, a soil science course, a plant physiology course, a plant pathology course, a professional development course, and a capstone experience course. All students must also complete an internship related to their area of interest.

Bachelor of Arts

Designed for students who want to learn about contemporary food systems from an interdisciplinary perspective. All students are required to take an introductory plant science course, a capstone experience course, and must complete an internship related to their area of interest.

Each specialization has a specific set of required core courses and a number of upper-division electives to choose from that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. Upper-division electives are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Related Plant Science Programs

- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Bachelor of Science | Plant Breeding and Genetics

Plant breeding and genetics play a critical role in enhancing the world's future food, fiber, and fuel supplies in response to challenges like climate change and population growth. Students will obtain a solid grounding in genetics and molecular genetics, plant processes and function, types and causes of plant stress and learn how this is applied for crop improvement and conservation of genetic resources. Modern plant breeding is an increasingly sophisticated, high-investment business. The majority of commercial plant breeding takes place within the private sector. Plant breeders are employed in plant breeding or agricultural biotechnology companies or academic institutions with the main goal to develop improved varieties or educate the general population about genetic techniques for plant improvement.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011101&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 6 critical-tracking courses, excluding labs: BOT 2010C or BSC 2010/BSC 2010L; BOT 2011C or BSC 2011/BSC 2011L; CHM 2045/CHM 2045L; CHM 2046/CHM 2046L; ECO 2013; MAC 1147
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities and International)	3
	Credits	13-14
Semester Two		
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
ENC 2210	Technical Writing (Gen Ed Composition; Writing Requirement: 6,000 words)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
	Credits	13
Semester Three		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
AMH 2020	United States Since 1877 (Gen Ed Social and Behavioral Sciences and Diversity)	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4

ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
	Credits	14
Semester Four		
AGR 3303	Genetics	3
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory	4
Approved elective		3
	Credits	14
Summer After Semester Four		
CHM 2210	Organic Chemistry 1	3
Elective (Writing Requirement: 6,000 words)		3
	Credits	6
Semester Five		
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
PLS 3004C	Principles of Plant Science	3
Ethical and social issues elective		3
Production agriculture elective		3
	Credits	14
Semester Six		
AGR 4320	Plant Breeding	3
BCH 3025 or BCH 4024	Fundamentals of Biochemistry or Introduction to Biochemistry and Molecular Biology	4
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	4
Molecular biology and genetics elective		3
	Credits	14
Summer After Semester Six		
PLS 4941	Practical Work Experience	3
	Credits	3
Semester Seven		
PLP 3002C	Fundamentals of Plant Pathology	4
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
Ecology and the environment elective		3
Molecular biology and genetics elective		3
Production agriculture elective		3
	Credits	16
Semester Eight		
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences; Writing Requirement: 6,000 words)	3
AGR 4304	Plant Chromosomes and Genomes	3
AGR 4512	Physiology and Ecology of Crops	3
PLS 4950	Plant Science Capstone	3
ORH 4933	Professional Seminar in Environmental Horticulture	1
	Credits	13
	Total Credits	120

Approved Electives | Minimum 21 Credits

Choose courses from each focus area; minimum credits for each area listed below. Students must consult with their advisor for assistance in selecting the designated listed electives in order to take applicable and appropriate courses for the students' job and career aspirations. Consult an advisor for other options, which may include study abroad courses.

Molecular Biology and Genetics | Minimum 6 Credits

Code	Title	Credits
HOS 3305	Introduction to Plant Molecular Biology	3
HOS 4313C	Laboratory Methods in Plant Molecular Biology	2
MCB 4304	Genetics of Microorganisms	3
MCB 4320C	The Microbiome	3
MCB 5305L	Microbial Genetics Lab	2
PCB 4522	Molecular Genetics	3

Production Agriculture | Minimum 6 Credits

Code	Title	Credits
AGR 4212	Alternative Cropping Systems	3
AGR 4214C	Applied Field Crop Production	3
AGR 4231C	Forage Science and Range Management	4
AGR 4932	Agronomy Topics (Tropical Cropping Systems)	3
AOM 3734	Irrigation Principles and Practices in Florida	3
AOM 4434	Precision Agriculture	3
AOM 4455	Agricultural Operations and Systems	3
HOS 3281C	Organic and Sustainable Crop Production	3
HOS 4283C	Advanced Organic and Sustainable Crop Production	3
PLS 4242C	Micropropagation of Horticultural Crops	4
SWS 3022	Introduction to Soils in the Environment	4
& 3022L	and Introduction to Soils in the Environment Laboratory	

Ecology and the Environment | Minimum 3 Credits

Code	Title	Credits
ALS 3133	Agricultural and Environmental Quality	3
ALS 3153	Agricultural Ecology	3
ALS 4154	Global Agroecosystems	3
EES 4103	Applied Ecology	2
EVS 3000	Environmental Science	3
PCB 3601C	Plant Ecology	3
PCB 4043C	General Ecology	4

Ethical and Social Issues | Minimum 3 Credits

Code	Title	Credits
AEB 4123	Agricultural and Natural Resource Law	3
AGG 3501	Environment, Food and Society	3
IDS 2154	Facets of Sustainability	3
PHM 3032	Ethics and Ecology	3
POT 3503	Environmental Ethics and Politics	3

Other Advisor-Approved Electives | Minimum 3 Credits

Academic Learning Compact

The plant science major, offered jointly by the departments of Agronomy and Plant Pathology, enables students to apply principles associated with production and improvement of agronomic crops. Students will acquire knowledge about the scientific fundamentals of plant growth of field and forage crops. They will acquire knowledge about fungi, bacteria and viruses, as well as environmental factors that cause plant disease. This program prepares students to work in the lab and field settings and to develop applied skills for research and extension.

Before Graduating Students Must

- Complete a research paper and an oral presentation with satisfactory faculty evaluation.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe plant growth and development in terms of plant morphology and physiology and evaluate the abiotic and biotic factors that impact plant growth and management.
2. Recommend practices that growers and managers can implement to address the abiotic and biotic components of their cropping system.

Critical Thinking

3. Analyze and apply science-based data to solve problems in plant production, distribution and/or utilization.
4. Design and evaluate a project that addresses a problem or challenge related to their area of interest.

Communication

5. Create, interpret and analyze written text and multimedia presentations.
6. Communicate effectively through oral and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
PLS 3004C	I	I	I	I		
PLS 4932	A	A	A	A	A	A
PLS 4941	R	R	R	R	R	R

Assessment Types

- Standardized post-test
- Capstone and individual projects
- Final grades

Plant Science | Plant Health and Protection

Plant scientists sustain and improve our current and future world as they work with foods, fibers, fuel, flowers, pharmaceuticals, urban forests, soil health, plant pests, and our natural environs. Plant Science students study biology, plant morphology and physiology, chemistry, entomology, physics, soil and water sciences, plant identification, plant pathology, plant propagation, and environmental horticulture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degrees:** Bachelor of Arts | Bachelor of Science
- **Specializations:** Community Food Systems (p. 249) | General Plant Science (p. 254) | Greenhouse and Landscape Industries (p. 258) | Native Plant Conservation (p. 263) | Plant Breeding and Genetics (p. 267) | Plant Health and Protection (p. 272) | Soil Management and Plant Productivity (p. 277) | Sustainable Crop Production (p. 282) | Turfgrass Science (p. 286)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Plant Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The plant science degree offers diverse specializations that provide a wide range of professional opportunities. The specializations provide students with an interdisciplinary perspective of these areas and pursue coursework that tracks them into a variety of job opportunities.

The University of Florida offers some of the specializations in this major to transfer students who have the appropriate credentials through the statewide programs at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, the Mid-Florida Research and Education Center in Apopka, or the West Florida Research and Education Center in Milton.

Course Requirements

Bachelor of Science

Designed for students with different professional objectives. All students, regardless of degree or specialization, are required to take an introductory plant science course, an introductory statistics course, an economics course, a technical writing course, a speech course, a soil science course, a plant physiology course, a plant pathology course, a professional development course, and a capstone experience course. All students must also complete an internship related to their area of interest.

Bachelor of Arts

Designed for students who want to learn about contemporary food systems from an interdisciplinary perspective. All students are required to take an introductory plant science course, a capstone experience course, and must complete an internship related to their area of interest.

Each specialization has a specific set of required core courses and a number of upper-division electives to choose from that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. Upper-division electives are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Related Plant Science Programs

- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Bachelor of Science | Plant Health and Protection

This specialization is designed for students who want to pursue careers related to plant health management in the public or private sector. It will prepare students for entry into the workplace in insect and disease control, plant diagnostics, crop production management, plant pathology and entomology research, plant growth consulting, integrated pest management, cooperative extension or to pursue advanced degrees in plant pathology, entomology, plant medicine, or other related disciplines.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011101&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 6 critical-tracking courses, excluding labs: ECO 2013; BOT 2010C or BSC 2010/BSC 2010L; BOT 2011C or BSC 2011/BSC 2011L; CHM 2045/CHM 2045L; CHM 2046/CHM 2046L; MAC 1147
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities and International)	3
	Credits	13-14
Semester Two		
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
ENC 2210	Technical Writing (Gen Ed Composition; Writing Requirement: 6,000 words)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
	Credits	13
Semester Three		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
AMH 2020	United States Since 1877 (Gen Ed Social and Behavioral Sciences and Diversity)	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
	Credits	14
Semester Four		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Biological Sciences and Physical Sciences)	4
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory (Gen Ed Biological Sciences and Physical Sciences)	3
PLS 3004C	Principles of Plant Science	3
	Credits	14
Summer After Semester Four		
Elective (Writing Requirement: 6,000 words)		3
Approved elective		3
	Credits	6

Semester Five		
CHM 2210	Organic Chemistry 1	3
Select one:		3
ORH 3513C	Environmental Plant Identification and Use	
BOT 2710C	Practical Plant Taxonomy	
BOT 3151C	Local Flora of North Florida	
PLP 3002C	Fundamentals of Plant Pathology	4
Approved elective		3
	Credits	13
Semester Six		
AGR 3303	Genetics	3
ORH 4256 or SWS 4116	Nutritional Management of Nursery Crops or Environmental Nutrient Management	3
IPM 3022	Fundamentals of Pest Management	3
Approved electives		6
	Credits	15
Summer After Semester Six		
PLS 4941	Practical Work Experience	3
	Credits	3
Semester Seven		
Entomology elective		3
Plant Pathology elective		3
Approved electives		8
	Credits	14
Semester Eight		
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences; Writing Requirement: 6,000 words)	3
AGR 4512 or HOS 4304	Physiology and Ecology of Crops or Horticultural Physiology	3
ORH 4933	Professional Seminar in Environmental Horticulture	1
PLS 4950	Plant Science Capstone	3
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
Approved elective		2
	Credits	15
	Total Credits	120

Approved Electives | Minimum 22 credits

In addition to the Plant Pathology elective and the Entomology elective in Semester 7, there are 22 additional elective credits to be completed. Choose courses from each focus area; minimum credits for each area listed below. Students must consult with their advisor for assistance in selecting the designated listed electives in order to take applicable and appropriate courses for the students' job and career aspirations. Consult an advisor for other options, which may include study abroad courses.

Plant Pathology | Minimum 3 credits

Code	Title	Credits
PLP 3103C	Control of Plant Diseases	3
PLP 4104	Applied Plant Disease Management	3
PLP 4222C	Introduction to Plant Virology	3
PLP 4242C	Introduction to Plant Bacteriology	3
PLP 4260C	Introduction to Plant Pathogenic Fungi	3
PLP 4653C	Basic Fungal Biology	4
PLP 4905	Problems in Intermediate Plant Pathology	1-4
PLP 4931	Seminar in Plant Pathology	1

Entomology | Minimum 3 credits

Code	Title	Credits
ALS 3153	Agricultural Ecology	3
ALS 4161	Exotic Species and Biosecurity Issues	3
ALS 4162	Consequences of Biological Invasions	3
ALS 4163	Challenges in Plant Resource Protection	3

ENY 3005	Principles of Entomology	2
ENY 3510C	Turf and Ornamental Entomology	3
ENY 4161	Insect Classification	3
ENY 4573	Beekeeping	3
NEM 3002	Principles of Nematology	3

Ethical and Social Issues | Minimum 3 credits

Code	Title	Credits
AEB 4123	Agricultural and Natural Resource Law	3
AGG 3501	Environment, Food and Society	3
IDS 2154	Facets of Sustainability	3
PHM 3032	Ethics and Ecology	3
POT 3503	Environmental Ethics and Politics	3

Microbiology and Molecular Biology | Minimum 3 credits

Code	Title	Credits
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
HOS 3305	Introduction to Plant Molecular Biology	3
HOS 4313C	Laboratory Methods in Plant Molecular Biology	2
MCB 4304	Genetics of Microorganisms	3
MCB 4320C	The Microbiome	3
PCB 4522	Molecular Genetics	3
SWS 4303C	Soil Microbial Ecology	3

Production Agriculture | Minimum 3 credits

Code	Title	Credits
AEB 3122	Financial Planning for Agribusiness	3
AEB 3133	Principles of Agribusiness Management	3
AEB 4342	Agribusiness and Food Marketing Management	3
AGR 4212	Alternative Cropping Systems	3
AGR 4214C	Applied Field Crop Production	3
AGR 4231C	Forage Science and Range Management	4
AGR 4932	Agronomy Topics	1-3
AOM 3734	Irrigation Principles and Practices in Florida	3
AOM 4434	Precision Agriculture	3
AOM 4455	Agricultural Operations and Systems	3
HOS 3281C	Organic and Sustainable Crop Production	3
HOS 4283C	Advanced Organic and Sustainable Crop Production	3
PLS 4242C	Micropropagation of Horticultural Crops	4
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory	4

Other Approved Electives

Code	Title	Credits
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1	4

Academic Learning Compact

The plant science major, offered jointly by the departments of Agronomy and Plant Pathology, enables students to apply principles associated with production and improvement of agronomic crops. Students will acquire knowledge about the scientific fundamentals of plant growth of field and forage crops. They will acquire knowledge about fungi, bacteria and viruses, as well as environmental factors that cause plant disease. This program prepares students to work in the lab and field settings and to develop applied skills for research and extension.

Before Graduating Students Must

- Complete a research paper and an oral presentation with satisfactory faculty evaluation.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe plant growth and development in terms of plant morphology and physiology and evaluate the abiotic and biotic factors that impact plant growth and management.
2. Recommend practices that growers and managers can implement to address the abiotic and biotic components of their cropping system.

Critical Thinking

3. Analyze and apply science-based data to solve problems in plant production, distribution and/or utilization.
4. Design and evaluate a project that addresses a problem or challenge related to their area of interest.

Communication

5. Create, interpret and analyze written text and multimedia presentations.
6. Communicate effectively through oral and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
PLS 3004C	I	I	I	I		
PLS 4932	A	A	A	A	A	A
PLS 4941	R	R	R	R	R	R

Assessment Types

- Standardized post-test
- Capstone and individual projects
- Final grades

Plant Science | Soil Management and Plant Productivity

Plant scientists sustain and improve our current and future world as they work with foods, fibers, fuel, flowers, pharmaceuticals, urban forests, soil health, plant pests, and our natural environs. Plant Science students study biology, plant morphology and physiology, chemistry, entomology, physics, soil and water sciences, plant identification, plant pathology, plant propagation, and environmental horticulture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
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- **Specializations:** Community Food Systems (p. 249) | General Plant Science (p. 254) | Greenhouse and Landscape Industries (p. 258) | Native Plant Conservation (p. 263) | Plant Breeding and Genetics (p. 267) | Plant Health and Protection (p. 272) | Soil Management and Plant Productivity (p. 277) | Sustainable Crop Production (p. 282) | Turfgrass Science (p. 286)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Plant Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The plant science degree offers diverse specializations that provide a wide range of professional opportunities. The specializations provide students with an interdisciplinary perspective of these areas and pursue coursework that tracks them into a variety of job opportunities.

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Course Requirements

Bachelor of Science

Designed for students with different professional objectives. All students, regardless of degree or specialization, are required to take an introductory plant science course, an introductory statistics course, an economics course, a technical writing course, a speech course, a soil science course, a plant physiology course, a plant pathology course, a professional development course, and a capstone experience course. All students must also complete an internship related to their area of interest.

Bachelor of Arts

Designed for students who want to learn about contemporary food systems from an interdisciplinary perspective. All students are required to take an introductory plant science course, a capstone experience course, and must complete an internship related to their area of interest.

Each specialization has a specific set of required core courses and a number of upper-division electives to choose from that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. Upper-division electives are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Related Plant Science Programs

- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Bachelor of Science | Soil Management and Plant Productivity

This specialization closely integrates the study of soil science core disciplines with production agriculture and horticulture. Coursework focuses on foundational principles related to soil health, productivity, and fertility in relation to sustainable plant growth and agricultural practices. Among the principal outcomes of the program is to prepare students for certification as both Associate Professional Soil Scientists and Certified Crop Advisors to better position graduates for employment in related fields.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011101&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical-tracking courses, excluding labs: BOT 2010C or BSC 2010/BSC 2010L; CHM 2045/CHM 2045L; CHM 2046/CHM 2046L; ECO 2013; MAC 1147
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities and International)	3
	Credits	13-14
Semester Two		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
ENC 2210	Technical Writing (Gen Ed Composition; Writing Requirement)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
	Credits	13
Semester Three		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
AMH 2020	United States Since 1877 (Gen Ed Social and Behavioral Sciences and Diversity)	3
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
	Credits	14
Semester Four		
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1 (Gen Ed Biological and Physical Sciences)	4
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Biological and Physical Sciences)	4
Approved electives		6
	Credits	14
Summer After Semester Four		
Approved elective		3
Elective (Writing Requirement: 6,000 words)		3
	Credits	6

Semester Five		
PLP 3002C	Fundamentals of Plant Pathology	4
PLS 3004C	Principles of Plant Science	3
SWS 4116	Environmental Nutrient Management	3
Approved elective		3
	Credits	13
Semester Six		
AGR 4214C	Applied Field Crop Production	3
SWS 4303C	Soil Microbial Ecology	3
SWS 4715C	Environmental Pedology	4
Approved electives		6
	Credits	16
Summer After Semester Six		
PLS 4941	Practical Work Experience	3
	Credits	3
Semester Seven		
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
SWS 4451	Soil and Water Chemistry	3
SWS 4602C	Soil Physics	3
Approved electives		6
	Credits	15
Semester Eight		
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences; Writing Requirement: 6,000 words)	3
AGR 4512 or HOS 4304	Physiology and Ecology of Crops or Horticultural Physiology	3
ORH 4933	Professional Seminar in Environmental Horticulture	1
PLS 4950	Plant Science Capstone	3
Approved elective		3
	Credits	13
	Total Credits	120

Approved Electives | Minimum 27 Credits

Choose courses from each focus area; minimum credits for each area listed below. Students must consult with their advisor for assistance in selecting the designated listed electives in order to take applicable and appropriate courses for the students' job and career aspirations. Consult an advisor for other options, which may include study abroad courses.

Soils, Agriculture, and the Environment | Minimum 6 Credits

Code	Title	Credits
ALS 4154	Global Agroecosystems	3
SWS 4207	Sustainable Agricultural and Urban Land Management	3
SWS 4231C	Soil, Water and Land Use	3
SWS 4233	Soil and Water Conservation	3
SWS 4720C	GIS in Soil and Water Science	3

Plant Pests, Disease, and Pathology | Minimum 6 Credits

Code	Title	Credits
AOM 3333	Pesticide Application Techniques	3
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3
IPM 3022	Fundamentals of Pest Management	3
NEM 3002	Principles of Nematology	3
PLP 3103C	Control of Plant Diseases	3
PLP 4242C	Introduction to Plant Bacteriology	3
PLS 4601C	Principles of Weed Science	3

Production Agriculture and Management | Minimum 6 Credits

Code	Title	Credits
AGR 4231C	Forage Science and Range Management	4
AGR 4320	Plant Breeding	3
AGR 4932	Agronomy Topics (Tropical Cropping Systems)	3
AOM 3734	Irrigation Principles and Practices in Florida	3
AOM 4434	Precision Agriculture	3
AOM 4455	Agricultural Operations and Systems	3
HOS 4341	Advanced Horticultural Physiology	3
ORH 4256	Nutritional Management of Nursery Crops	3

Organic and Alternative Agriculture | Minimum 3 Credits

Code	Title	Credits
AGR 4212	Alternative Cropping Systems	3
HOS 3281C	Organic and Sustainable Crop Production	3
HOS 4283C	Advanced Organic and Sustainable Crop Production	3
HOS 4905	Independent Study in Horticultural Science (Organic Weed Management)	3

Agribusiness | Minimum 3 Credits

Code	Title	Credits
AEB 3122	Financial Planning for Agribusiness	3
AEB 3133	Principles of Agribusiness Management	3
AEB 4342	Agribusiness and Food Marketing Management	3

Other Advisor-Approved Electives | Minimum 3 Credits

Academic Learning Compact

The plant science major, offered jointly by the departments of Agronomy and Plant Pathology, enables students to apply principles associated with production and improvement of agronomic crops. Students will acquire knowledge about the scientific fundamentals of plant growth of field and forage crops. They will acquire knowledge about fungi, bacteria and viruses, as well as environmental factors that cause plant disease. This program prepares students to work in the lab and field settings and to develop applied skills for research and extension.

Before Graduating Students Must

- Complete a research paper and an oral presentation with satisfactory faculty evaluation.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe plant growth and development in terms of plant morphology and physiology and evaluate the abiotic and biotic factors that impact plant growth and management.
2. Recommend practices that growers and managers can implement to address the abiotic and biotic components of their cropping system.

Critical Thinking

3. Analyze and apply science-based data to solve problems in plant production, distribution and/or utilization.
4. Design and evaluate a project that addresses a problem or challenge related to their area of interest.

Communication

5. Create, interpret and analyze written text and multimedia presentations.
6. Communicate effectively through oral and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	

PLS 3004C	I	I	I	I		
PLS 4932	A	A	A	A	A	A
PLS 4941	R	R	R	R	R	R

Assessment Types

- Standardized post-test
- Capstone and individual projects
- Final grades

Plant Science | Sustainable Crop Production

Plant scientists sustain and improve our current and future world as they work with foods, fibers, fuel, flowers, pharmaceuticals, urban forests, soil health, plant pests, and our natural environs. Plant Science students study biology, plant morphology and physiology, chemistry, entomology, physics, soil and water sciences, plant identification, plant pathology, plant propagation, and environmental horticulture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degrees:** Bachelor of Arts | Bachelor of Science
- **Specializations:** Community Food Systems (p. 249) | General Plant Science (p. 254) | Greenhouse and Landscape Industries (p. 258) | Native Plant Conservation (p. 263) | Plant Breeding and Genetics (p. 267) | Plant Health and Protection (p. 272) | Soil Management and Plant Productivity (p. 277) | Sustainable Crop Production (p. 282) | Turfgrass Science (p. 286)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Plant Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The plant science degree offers diverse specializations that provide a wide range of professional opportunities. The specializations provide students with an interdisciplinary perspective of these areas and pursue coursework that tracks them into a variety of job opportunities.

The University of Florida offers some of the specializations in this major to transfer students who have the appropriate credentials through the statewide programs at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, the Mid-Florida Research and Education Center in Apopka, or the West Florida Research and Education Center in Milton.

Course Requirements

Bachelor of Science

Designed for students with different professional objectives. All students, regardless of degree or specialization, are required to take an introductory plant science course, an introductory statistics course, an economics course, a technical writing course, a speech course, a soil science course, a plant physiology course, a plant pathology course, a professional development course, and a capstone experience course. All students must also complete an internship related to their area of interest.

Bachelor of Arts

Designed for students who want to learn about contemporary food systems from an interdisciplinary perspective. All students are required to take an introductory plant science course, a capstone experience course, and must complete an internship related to their area of interest.

Each specialization has a specific set of required core courses and a number of upper-division electives to choose from that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. Upper-division electives are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Related Plant Science Programs

- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Bachelor of Science | Sustainable Crop Production

This specialization prepares students for professions related to crop production and management. Students will explore and understand production practices that meet present world food needs without compromising quality of life for future generations. Courses emphasize crop ecosystem function, aquatic and terrestrial weed management, the importance of insects to crops and optimizing management techniques including energy utilization, nutrient management, and soil and water conservation.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011101&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical-tracking courses, excluding labs: BOT 2010C or BSC 2010/BSC 2010L; BOT 2011C or BSC 2011/BSC 2011L; CHM 2045/CHM 2045L; ECO 2013; MAC 1147
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4

MUL 2010	Experiencing Music (State Core Gen Ed Humanities and International)	3
	Credits	13-14
Semester Two		
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
ENC 2210	Technical Writing (Gen Ed Composition; Writing Requirement: 6,000 words)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
	Credits	13
Semester Three		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
AMH 2020	United States Since 1877 (Gen Ed Social and Behavioral Sciences and Diversity)	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
	Credits	14
Semester Four		
AGR 3303	Genetics	3
ALS 2410	Challenge 2050: Global Uncertainty	3
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Biological and Physical Sciences)	4
Approved elective		3
	Credits	13
Summer After Semester Four		
Approved elective		3
Elective (Writing Requirement: 6,000 words)		3
	Credits	6
Semester Five		
BCH 3023	Elementary Organic and Biological Chemistry	3
PLP 3002C	Fundamentals of Plant Pathology (Gen Ed Biological and Physical Sciences)	4
PLS 3004C	Principles of Plant Science	3
Approved elective		3
	Credits	13
Semester Six		
AGG 3501	Environment, Food and Society	3
AGR 4214C	Applied Field Crop Production	3
Approved electives		8
	Credits	14
Summer After Semester Six		
PLS 4941	Practical Work Experience	3
	Credits	3
Semester Seven		
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
PLS 4601C	Principles of Weed Science	3
Approved electives		9
	Credits	15
Semester Eight		
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences; Writing Requirement: 6,000 words)	3
AGR 4212	Alternative Cropping Systems	3
AGR 4512 or HOS 4304	Physiology and Ecology of Crops or Horticultural Physiology	3

ORH 4933	Professional Seminar in Environmental Horticulture	1
PLS 4950	Plant Science Capstone	3
Approved elective		3
	Credits	16
	Total Credits	120

Approved Electives | Minimum 29 Credits

Choose courses from each focus area; minimum credits for each area listed below. Students must consult with their advisor for assistance in selecting the designated listed electives in order to take applicable and appropriate courses for the students' job and career aspirations. Consult an advisor for other options, which may include study abroad courses.

Plant Production and Management | Minimum 6 Credits

Code	Title	Credits
AGR 4231C	Forage Science and Range Management	4
AGR 4932	Agronomy Topics (Tropical Cropping Systems)	3
AOM 3734	Irrigation Principles and Practices in Florida	3
AOM 4434	Precision Agriculture	3
AOM 4455	Agricultural Operations and Systems	3
HOS 3281C	Organic and Sustainable Crop Production	3
HOS 4283C	Advanced Organic and Sustainable Crop Production	3

Management and Sales | Minimum 6 Credits

Code	Title	Credits
AEB 3122	Financial Planning for Agribusiness	3
AEB 3133	Principles of Agribusiness Management	3
AEB 3300	Agricultural and Food Marketing	3
AEB 3341	Selling Strategically	3
AEB 4424	Human Resources Management in Agribusiness	3
FIN 3403	Business Finance	4
MAR 3231	Introduction to Retailing Systems and Management	4

Plant Pest Management | Minimum 6 Credits

Code	Title	Credits
ENY 3005	Principles of Entomology	3
& 3005L	and Principles of Entomology Laboratory	
ENY 4905	Problems in Entomology	3
HOS 4905	Independent Study in Horticultural Science (Organic Weed Management)	3
NEM 3002	Principles of Nematology	3

Ecology and the Environment | Minimum 6 Credits

Code	Title	Credits
ALS 3133	Agricultural and Environmental Quality	3
ALS 3153	Agricultural Ecology	3
ALS 4154	Global Agroecosystems	3
EES 4103	Applied Ecology	2
EVS 3000	Environmental Science	3
FOR 3153C	Forest Ecology	3
FOR 4090C	Urban Forestry	3
ORH 3815C	Florida Native Landscaping	3
SWS 4244	Wetlands	3
WIS 3401	Wildlife Ecology and Management	3
WIS 3402	Wildlife of Florida	3
WIS 4203C	Landscape Ecology and Conservation	3

Ethical and Social Issues | Minimum 5 Credits

Code	Title	Credits
AEB 4123	Agricultural and Natural Resource Law	3
IDS 2154	Facets of Sustainability	3

PHM 3032	Ethics and Ecology	3
POT 3503	Environmental Ethics and Politics	3

Academic Learning Compact

The plant science major, offered jointly by the departments of Agronomy and Plant Pathology, enables students to apply principles associated with production and improvement of agronomic crops. Students will acquire knowledge about the scientific fundamentals of plant growth of field and forage crops. They will acquire knowledge about fungi, bacteria and viruses, as well as environmental factors that cause plant disease. This program prepares students to work in the lab and field settings and to develop applied skills for research and extension.

Before Graduating Students Must

- Complete a research paper and an oral presentation with satisfactory faculty evaluation.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe plant growth and development in terms of plant morphology and physiology and evaluate the abiotic and biotic factors that impact plant growth and management.
2. Recommend practices that growers and managers can implement to address the abiotic and biotic components of their cropping system.

Critical Thinking

3. Analyze and apply science-based data to solve problems in plant production, distribution and/or utilization.
4. Design and evaluate a project that addresses a problem or challenge related to their area of interest.

Communication

5. Create, interpret and analyze written text and multimedia presentations.
6. Communicate effectively through oral and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
PLS 3004C	I	I	I	I		
PLS 4932	A	A	A	A	A	A
PLS 4941	R	R	R	R	R	R

Assessment Types

- Standardized post-test
- Capstone and individual projects
- Final grades

Plant Science | Turfgrass Science

Plant scientists sustain and improve our current and future world as they work with foods, fibers, fuel, flowers, pharmaceuticals, urban forests, soil health, plant pests, and our natural environs. Plant Science students study biology, plant morphology and physiology, chemistry, entomology, physics, soil and water sciences, plant identification, plant pathology, plant propagation, and environmental horticulture.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degrees:** Bachelor of Arts | Bachelor of Science
- **Specializations:** Community Food Systems (p. 249) | General Plant Science (p. 254) | Greenhouse and Landscape Industries (p. 258) | Native Plant Conservation (p. 263) | Plant Breeding and Genetics (p. 267) | Plant Health and Protection (p. 272) | Soil Management and Plant Productivity (p. 277) | Sustainable Crop Production (p. 282) | Turfgrass Science (p. 286)

- **Credits for Degree:** 120
- **Additional Information**
- **Related Plant Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The plant science degree offers diverse specializations that provide a wide range of professional opportunities. The specializations provide students with an interdisciplinary perspective of these areas and pursue coursework that tracks them into a variety of job opportunities.

The University of Florida offers some of the specializations in this major to transfer students who have the appropriate credentials through the statewide programs at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, the Mid-Florida Research and Education Center in Apopka, or the West Florida Research and Education Center in Milton.

Course Requirements

Bachelor of Science

Designed for students with different professional objectives. All students, regardless of degree or specialization, are required to take an introductory plant science course, an introductory statistics course, an economics course, a technical writing course, a speech course, a soil science course, a plant physiology course, a plant pathology course, a professional development course, and a capstone experience course. All students must also complete an internship related to their area of interest.

Bachelor of Arts

Designed for students who want to learn about contemporary food systems from an interdisciplinary perspective. All students are required to take an introductory plant science course, a capstone experience course, and must complete an internship related to their area of interest.

Each specialization has a specific set of required core courses and a number of upper-division electives to choose from that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. Upper-division electives are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Related Plant Science Programs

- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Plant Science minor (p. 291)
- Environmental Horticulture Management certificate (p. 127)

Bachelor of Science | Turfgrass Science

This specialization combines the study of grasses, soils, water, and pests affecting turf with the study of business and management. Career opportunities include work with golf courses, sports turf facilities, lawn-care companies, parks, agrichemical industries, cemeteries, environmental consulting firms, sod farms, government agencies, and preparation for graduate school.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011101&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical-tracking courses, excluding labs: BOT 2010C or BSC 2010/BSC 2010L; BOT 2011C or BSC 2011/BSC 2011L; CHM 2045/CHM 2045L; ECO 2013; MAC 1147
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
BOT 2010C	Introductory Botany (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities and International)	3
	Credits	13-14
Semester Two		
Select one:		4
BOT 2011C	Plant Diversity (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	
ENC 2210	Technical Writing (Gen Ed Composition; Writing Requirement: 6,000 words)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
	Credits	13
Semester Three		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
AMH 2020	United States Since 1877 (Gen Ed Social and Behavioral Sciences and Diversity)	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
	Credits	14
Semester Four		
ALS 3133	Agricultural and Environmental Quality	3

PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1 (Gen Ed Biological and Physical Sciences)	4
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Biological and Physical Sciences)	4
Agribusiness elective		3
	Credits	14
Summer After Semester Four		
Select one:		3
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory (Gen Ed Biological and Physical Sciences)	
ENY 3510C	Turf and Ornamental Entomology	
Elective (Writing Requirement: 6,000 words)		3
	Credits	6
Semester Five		
BCH 3023	Elementary Organic and Biological Chemistry	3
ORH 3222C	Turfgrass Culture	4
ORH 3513C	Environmental Plant Identification and Use	3
PLS 3004C	Principles of Plant Science	3
	Credits	13
Semester Six		
AGR 4512 or HOS 4304	Physiology and Ecology of Crops or Horticultural Physiology	3
ORH 4223	Golf and Sports Turf Management	2
ORH 4236C	Ornamental Landscape Management	3
SWS 4116	Environmental Nutrient Management	3
Agribusiness elective		3
	Credits	14
Summer After Semester Six		
PLS 4941	Practical Work Experience	3
	Credits	3
Semester Seven		
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences; Writing Requirement: 6,000 words)	3
PLP 3002C	Fundamentals of Plant Pathology	4
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
PLS 4601C	Principles of Weed Science	3
Agribusiness elective		3
	Credits	16
Semester Eight		
ORH 4933	Professional Seminar in Environmental Horticulture	1
PLS 4950	Plant Science Capstone	3
Pest Management electives		6
Approved electives		4
	Credits	14
	Total Credits	120

Approved Electives | Minimum 19 Credits

Students must consult with their advisor for assistance in selecting the designated listed electives in order to take applicable and appropriate courses for the students' job and career aspirations. Consult an advisor for other options, which may include study abroad courses.

Pest Management | Minimum 6 Credits

Code	Title	Credits
AOM 3333	Pesticide Application Techniques	3
ENY 4161	Insect Classification	3
IPM 3022	Fundamentals of Pest Management	3
IPM 4254	Landscape Integrated Pest Management: Ornamentals and Turf	3
NEM 3002	Principles of Nematology	3

Professional Electives | Minimum 4 Credits

Code	Title	Credits
AOM 3734	Irrigation Principles and Practices in Florida	3
ORH 4242C	Arboriculture	4
ORH 4804 & 4804L	Annual and Perennial Gardening and Annual and Perennial Gardening Laboratory	3
ORH 4848	Landscape Plant Establishment	2
ORH 4905	Independent Study of Environmental Horticulture	1-3
WIS 4443C	Wetland Wildlife Ecology	4

Agribusiness | Minimum 9 Credits

Code	Title	Credits
AEB 3133	Principles of Agribusiness Management	3
AEB 3144	Introduction to Agricultural Finance	3
AEB 3300	Agricultural and Food Marketing	3
AEB 3341	Selling Strategically	3
AEB 4424	Human Resources Management in Agribusiness	3

Academic Learning Compact

The plant science major, offered jointly by the departments of Agronomy and Plant Pathology, enables students to apply principles associated with production and improvement of agronomic crops. Students will acquire knowledge about the scientific fundamentals of plant growth of field and forage crops. They will acquire knowledge about fungi, bacteria and viruses, as well as environmental factors that cause plant disease. This program prepares students to work in the lab and field settings and to develop applied skills for research and extension.

Before Graduating Students Must

- Complete a research paper and an oral presentation with satisfactory faculty evaluation.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe plant growth and development in terms of plant morphology and physiology and evaluate the abiotic and biotic factors that impact plant growth and management.
2. Recommend practices that growers and managers can implement to address the abiotic and biotic components of their cropping system.

Critical Thinking

3. Analyze and apply science-based data to solve problems in plant production, distribution and/or utilization.
4. Design and evaluate a project that addresses a problem or challenge related to their area of interest.

Communication

5. Create, interpret and analyze written text and multimedia presentations.
6. Communicate effectively through oral and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
PLS 3004C	I	I	I	I		
PLS 4932	A	A	A	A	A	A
PLS 4941	R	R	R	R	R	R

Assessment Types

- Standardized post-test
- Capstone and individual projects
- Final grades

Plant Science Minor

Established in 1870, the mission of the College of Agricultural and Life Sciences is to deliver unsurpassed educational programs that prepare students to address the world's critical challenges related to agriculture, food systems, human well-being, natural resources and sustainable communities.

Contact

2020 McCarty Hall D
P.O. Box 110270
University of Florida
Gainesville, FL 32611-0270
352.392.1963

Map (http://campusmap.ufl.edu/?loc=0498) More Info (http://cals.ufl.edu)

Academic Advising
2020 McCarty Hall D
352.392.1963

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Plant Science Programs**

This minor is open to undergraduates whose major is not plant science.

Interested students should consult plant science-agronomy advisors in the Department of Agronomy early in their academic careers.

Required Courses

Code	Title	Credits
PLS 3004C	Principles of Plant Science	3
Select two:		6-8
AGR 4214C	Applied Field Crop Production	
AGR 4231C	Forage Science and Range Management	
AGR 4512	Physiology and Ecology of Crops	
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory	
AGR 3303	Genetics	3
or AGR 4320	Plant Breeding	
PLS 4601C	Principles of Weed Science	3
or PLS 5652	Advanced Weed Science	
Total Credits		15-17

Related Plant Science Programs

- Bachelor of Science or Bachelor of Arts in Plant Science (p. 248)
- Environmental Horticulture minor (p. 128)
- Golf and Sports Turf Management minor (p. 197)
- Environmental Horticulture Management certificate (p. 127)

Precision Agriculture Minor

In the multidisciplinary precision agriculture minor, students use satellite imagery, aerial photography, field sensors, and the Global Positioning System to acquire information about field conditions. This information is organized and analyzed using a digital mapping system called Geographical Information System. After being analyzed, these data can help make effective management decisions.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C
- **Additional Information**
- **Related Precision Agriculture Programs**

Required Courses

Code	Title	Credits
AOM 4434	Precision Agriculture (take this course first)	3
AOM 4455	Agricultural Operations and Systems	3
Crop Management and Field Techniques elective		3
Geographic Information Systems elective		3
Remote Sensing elective		3
Total Credits		15

Approved Electives

Crop Management and Field Techniques Electives

Code	Title	Credits
AGR 4214C	Applied Field Crop Production	3
AGR 4231C	Forage Science and Range Management	4
FAS 4305C	Introduction to Fishery Science	3
FNR 3410C	Natural Resource Sampling	3
FNR 4623C	Integrated Natural Resource Management	3
FRC 3212	Introduction to Citrus Culture and Production	3
GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
IPM 3022	Fundamentals of Pest Management	3
PLP 3103C	Control of Plant Diseases	3
PLS 3004C	Principles of Plant Science	3
PLS 4601C	Principles of Weed Science	3
PLS 4613	Aquatic Weed Control	3
SWS 3023L	Soil Judging	2
SWS 4231C	Soil, Water and Land Use	3
SWS 4715C	Environmental Pedology	4
STA 4222	Sample Survey Design	3
SUR 3520	Measurement Science	3
WIS 4945C	Wildlife Techniques	4

Geographic Information Systems Electives

Code	Title	Credits
FOR 3434C	Forest Resources Information Systems	3
GIS 3043	Foundations of Geographic Information Systems	4
GIS 3072C	Geographic Information Systems	3
SUR 5365	Digital Mapping	3
URP 4273	Survey of Planning Information Systems	3

Remote Sensing Electives

Code	Title	Credits
AOM 5431	GIS/Remote Sens Agric	3
SUR 3331C	Photogrammetry	3
SUR 4380	Remote Sensing	3
SUR 5385	Remote Sens Applica	3

Related Precision Agriculture Programs

- Bachelor of Science in Agricultural Operations Management (p. 55)

Soil and Water Sciences

Soil and Water Sciences involves managing land and water resources across a wide range of ecosystems, including agricultural, forested, range, urban and wetlands. Soil and Water Sciences students have a strong science and math background and study biology, calculus, microbiology, chemistry, physics, and ecology.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **School:** Natural Resources and Environment (p. 1356)
- **Degree:** Bachelor of Science
- **Specializations:** Soil Science (p. 294) | Water Science (p. 298)
- **Credits for Degree:** 120
- **Additional Information:** Soil Science (https://soils.ifas.ufl.edu/academics/-undergraduate-studies/soil-science-specialization) | Water Science (https://soils.ifas.ufl.edu/academics/-undergraduate-studies/water-science-specialization)
- **Related Soil and Water Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students are trained in managing land and water resources in a wide range of ecosystems, including agricultural, forested, range, urban and wetlands through different degree programs. Specializations within this degree program are designed to give the student a strong background in soil and water sciences with a core of required courses taken during their junior and senior years. Beyond the core courses, students can select from several groups of electives that provide flexibility in their program.

Students may also prepare for professional schools by selecting appropriate elective courses.

Related Soil and Water Sciences Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Soil and Water Sciences minor (p. 302)

Academic Learning Compact

The soil and water sciences major enables students to identify and to describe the morphology of soils, to differentiate soils according to soil taxonomy and to distinguish soil forming factors. Students will use this knowledge to assess properties of soils in relation to plant growth and environmental uses and to apply this knowledge to different soil uses in agriculture, natural resources and urban settings.

Before Graduating Students Must

- Pass the soil and water sciences competency exam, given in four parts. One part will be given in each of these required courses:
  - SWS 3022 Soils in the Environment
  - SWS 4451 Soil and Water Chemistry
  - SWS 4602C Soil Physics
  - SWS 4715C Environmental Pedology
- Satisfactorily complete an approved research project in SWS 4905 or SWS 4941.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply fundamental principles of chemistry and physics in relation to critical zone processes in the pedosphere and hydrosphere.
2. Classify fundamental biological processes and differentiate basic organism function in soil and hydrologic systems.
3. Utilize field observations, case study evidence and experimental data to describe soil formation, morphology and interactions of the varied components of the hydrologic cycle.

Critical Thinking

4. Critically evaluate the sustainability of water resources in relation to human needs and natural ecosystem function.
5. Demonstrate quantitative problem-solving abilities by applying, analyzing and synthesizing content knowledge related to soil and water chemistry and physics.

Communication

6. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C						I, R, A
SWS 2007	I	I	I	I		
SWS 3022	I	I	I		I	
SWS 4245	R, A		R, A	R, A	R	R
SWS 4303C		R, A				R
SWS 4307		R, A				R
SWS 4451	R, A				R, A	
SWS 4602C	R, A		R			
SWS 4715C			R, A			

Assessment Types

- Case studies
- Field studies
- Lab assignments and reports
- Written analysis
- Exams

Soil and Water Sciences | Soil Science

Soil and Water Sciences involves managing land and water resources across a wide range of ecosystems, including agricultural, forested, range, urban and wetlands. Soil and Water Sciences students have a strong science and math background and study biology, calculus, microbiology, chemistry, physics, and ecology.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **School:** Natural Resources and Environment (p. 1356)
- **Degree:** Bachelor of Science
- **Specializations:** Soil Science (p. 294) | Water Science (p. 298)
- **Credits for Degree:** 120
- **Additional Information:** Soil Science (https://soils.ifas.ufl.edu/academics/-undergraduate-studies/soil-science-specialization) | Water Science (https://soils.ifas.ufl.edu/academics/-undergraduate-studies/water-science-specialization)
- **Related Soil and Water Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students are trained in managing land and water resources in a wide range of ecosystems, including agricultural, forested, range, urban and wetlands through different degree programs. Specializations within this degree program are designed to give the student a strong background in soil and water sciences with a core of required courses taken during their junior and senior years. Beyond the core courses, students can select from several groups of electives that provide flexibility in their program.

Students may also prepare for professional schools by selecting appropriate elective courses.

Related Soil and Water Sciences Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Soil and Water Sciences minor (p. 302)

Soil Science

Areas of study include soil and land use (with an emphasis on natural resources and the environment), environmental management (with an emphasis on agricultural and other applied aspects of soil sciences), physical and biological sciences (with an emphasis on physics, microbiology, botany and/or other biological sciences) and business (with an emphasis on policy, economics, business administration or entrepreneurship).

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011201&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical courses, excluding labs: BSC 2005/BSC 2005L or BSC 2010/BSC 2010L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2311, PHY 2004/PHY 2004L
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
Select one:		4

BSC 2005 & 2005L	Biological Sciences and Laboratory in Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Electives		4
	Credits	14-15
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
MCB 2000 & 2000L	Microbiology and Microbiology Laboratory	4
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		2
	Credits	16
Semester Three		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
Select one:		3-4
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	
MAC 2312	Analytic Geometry and Calculus 2 (Gen Ed Mathematics)	
Gen Ed Composition		3
Elective		2
	Credits	15-16
Semester Four		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	4
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Physical Sciences)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	15
Semester Five		
Select one:		4
CHM 2200 & 2200L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	
CHM 3120 & 3120L	Introduction to Analytical Chemistry and Analytical Chemistry Laboratory	
SWS 4451	Soil and Water Chemistry	3
Approved electives		8
	Credits	15
Semester Six		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
SWS 4231C	Soil, Water and Land Use	3
SWS 4715C	Environmental Pedology	4
Approved elective		3
	Credits	13
Summer After Semester Six		
SWS 4905 or SWS 4941	Individual Work or Full-time Practical Work Experience in Soil and Water Science	1-3
Approved elective		2
	Credits	3-5
Semester Seven		
SWS 4303C	Soil Microbial Ecology	3
SWS 4602C	Soil Physics (State Core Gen Ed Physical Sciences (p. 23))	3

Approved electives		10
	Credits	16
Semester Eight		
SWS 4244	Wetlands	3
Approved electives		10-11
	Credits	13-14
	Total Credits	120

Approved Electives

Code	Title	Credits
ALS 3133	Agricultural and Environmental Quality	3
EES 4401	Public Health Engineering	3
GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
GEO 3250	Climatology	3
GEO 3280	Principles of Geographic Hydrology	4
GLY 1150L	Florida Geology Laboratory	1
SWS 2007	The World of Water	3
SWS 2008	Land and Life	3
SWS 3023L	Soil Judging	2
SWS 4116	Environmental Nutrient Management	3
SWS 4180	Earth System Analysis	3
SWS 4207	Sustainable Agricultural and Urban Land Management	3
SWS 4223	Environmental Biogeochemistry	3
SWS 4233	Soil and Water Conservation	3
SWS 4245	Water Resource Sustainability	3
SWS 4307	Ecology of Waterborne Pathogens	3
SWS 4550	Soils, Water and Public Health	3
SWS 4720C	GIS in Soil and Water Science	3
SWS 4905	Individual Work	1-3
SWS 4911	Supervised Research in Soil and Water Science	3
SWS 4915	Honors Thesis Research in Soil and Water Science	3
SWS 4932	Special Topics in Soil and Water Science	1-3

Electives are chosen with the student's advisor. There are four areas of specialization: soil, water and land use, environmental soil and water management, physical sciences and biological sciences. The student is encouraged to take electives from a range of course groupings that include biology, building construction, chemistry, earth science, environmental science, hydrology, mathematics, physics, policy, production systems, programming and statistics.

Academic Learning Compact

The soil and water sciences major enables students to identify and to describe the morphology of soils, to differentiate soils according to soil taxonomy and to distinguish soil forming factors. Students will use this knowledge to assess properties of soils in relation to plant growth and environmental uses and to apply this knowledge to different soil uses in agriculture, natural resources and urban settings.

Before Graduating Students Must

- Pass the soil and water sciences competency exam, given in four parts. One part will be given in each of these required courses:
  - SWS 3022 Soils in the Environment
  - SWS 4451 Soil and Water Chemistry
  - SWS 4602C Soil Physics
  - SWS 4715C Environmental Pedology
- Satisfactorily complete an approved research project in SWS 4905 or SWS 4941.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply fundamental principles of chemistry and physics in relation to critical zone processes in the pedosphere and hydrosphere.
2. Classify fundamental biological processes and differentiate basic organism function in soil and hydrologic systems.
3. Utilize field observations, case study evidence and experimental data to describe soil formation, morphology and interactions of the varied components of the hydrologic cycle.

Critical Thinking

4. Critically evaluate the sustainability of water resources in relation to human needs and natural ecosystem function.
5. Demonstrate quantitative problem-solving abilities by applying, analyzing and synthesizing content knowledge related to soil and water chemistry and physics.

Communication

6. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C						I, R, A
SWS 2007	I	I	I	I		
SWS 3022	I	I	I		I	
SWS 4245	R, A		R, A	R, A	R	R
SWS 4303C		R, A				R
SWS 4307		R, A				R
SWS 4451	R, A				R, A	
SWS 4602C	R, A		R			
SWS 4715C			R, A			

Assessment Types

- Case studies
- Field studies
- Lab assignments and reports
- Written analysis
- Exams

Soil and Water Sciences | Water Science

Soil and Water Sciences involves managing land and water resources across a wide range of ecosystems, including agricultural, forested, range, urban and wetlands. Soil and Water Sciences students have a strong science and math background and study biology, calculus, microbiology, chemistry, physics, and ecology.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **School:** Natural Resources and Environment (p. 1356)
- **Degree:** Bachelor of Science
- **Specializations:** Soil Science (p. 294) | Water Science (p. 298)
- **Credits for Degree:** 120
- **Additional Information:** Soil Science (https://soils.ifas.ufl.edu/academics/-undergraduate-studies/soil-science-specialization) | Water Science (https://soils.ifas.ufl.edu/academics/-undergraduate-studies/water-science-specialization)
- **Related Soil and Water Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students are trained in managing land and water resources in a wide range of ecosystems, including agricultural, forested, range, urban and wetlands through different degree programs. Specializations within this degree program are designed to give the student a strong background in soil and water sciences with a core of required courses taken during their junior and senior years. Beyond the core courses, students can select from several groups of electives that provide flexibility in their program.

Students may also prepare for professional schools by selecting appropriate elective courses.

Related Soil and Water Sciences Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Soil and Water Sciences minor (p. 302)

Water Science

Water's abundance, quality, distribution and properties are essential to all people. Understanding water's role in the environment and in our lives is integral to the future of this important resource. Water science is an interdisciplinary specialization that provides students with opportunities to develop skills essential for a diversity of careers in both government and private sectors. Students will work closely with advisors to develop a course of study tailored to their professional goals.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=011201&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical courses, excluding labs: BSC 2005/BSC 2005L or BSC 2010/BSC 2010L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2311, PHY 2004/PHY 2004L
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
ECO 2013	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
Select one:		4
BSC 2005 & 2005L	Biological Sciences and Laboratory in Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		4
	Credits	14-15
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MCB 2000 & 2000L	Microbiology and Microbiology Laboratory	4
SWS 2007	The World of Water (Gen Ed Physical Sciences)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		2
	Credits	15
Semester Three		
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Gen Ed Composition; Writing Requirement		3
Elective		2
	Credits	16
Semester Four		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	4
Select one:		3-4
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	
MAC 2312	Analytic Geometry and Calculus 2 (Gen Ed Mathematics)	
State Core Gen Ed Humanities (p. 23)		3
	Credits	14-15
Semester Five		
Select one:		4
CHM 2200 & 2200L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	
CHM 3120 & 3120L	Introduction to Analytical Chemistry and Analytical Chemistry Laboratory	
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Biological and Physical Sciences)	4
SWS 4451	Soil and Water Chemistry	3
Approved elective		3
Elective		3
	Credits	17
Semester Six		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
SWS 4223	Environmental Biogeochemistry	3
SWS 4244	Wetlands	3

Approved electives		6
	Credits	15
Summer After Semester Six		
SWS 4905 or SWS 4941	Individual Work or Full-time Practical Work Experience in Soil and Water Science	1-3
Approved elective		2
	Credits	3-5
Semester Seven		
FNR 4660 or PUP 4224	Natural Resource Policy and Economics or Florida Environmental Politics	3
SWS 4602C	Soil Physics (Gen Ed Physical Sciences)	3
Approved electives		7
	Credits	13
Semester Eight		
SWS 4245	Water Resource Sustainability	3
SWS 4307	Ecology of Waterborne Pathogens	3
Approved electives		7-8
	Credits	13-14
	Total Credits	120

Approved Electives

Code	Title	Credits
ALS 3133	Agricultural and Environmental Quality	3
AOM 3734	Irrigation Principles and Practices in Florida	3
AOM 4643	Environmental Hydrology: Principles and Issues	3
EES 4201	Water Chemistry	3
EES 4401	Public Health Engineering	3
FAS 4305C	Introduction to Fishery Science	3
FNR 4343C	Forest Water Resources	3
GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
GEO 3250	Climatology	3
GEO 3280	Principles of Geographic Hydrology	4
GLY 1150L	Florida Geology Laboratory	1
GLY 3083C	Fundamentals of Marine Sciences	3
OCE 3016	Introduction to Coastal and Oceanographic Engineering	3
SWS 4231C	Soil, Water and Land Use	3
SWS 4233	Soil and Water Conservation	3
SWS 4550	Soils, Water and Public Health	3
SWS 4715C	Environmental Pedology	4
SWS 4720C	GIS in Soil and Water Science	3
SWS 4905	Individual Work	1-3
SWS 4911	Supervised Research in Soil and Water Science	3
SWS 4915	Honors Thesis Research in Soil and Water Science	3
SWS 4932	Special Topics in Soil and Water Science	1-3

Electives are chosen with the student's advisor. The student is encouraged to take electives from a range of course groupings that include biology, building construction, chemistry, earth science, environmental science, geology, hydrology, mathematics, physics, policy, production systems, programming, soils, and statistics.

Academic Learning Compact

The soil and water sciences major enables students to identify and to describe the morphology of soils, to differentiate soils according to soil taxonomy and to distinguish soil forming factors. Students will use this knowledge to assess properties of soils in relation to plant growth and environmental uses and to apply this knowledge to different soil uses in agriculture, natural resources and urban settings.

Before Graduating Students Must

- Pass the soil and water sciences competency exam, given in four parts. One part will be given in each of these required courses:
  - SWS 3022 Soils in the Environment
  - SWS 4451 Soil and Water Chemistry

- SWS 4602C Soil Physics
- SWS 4715C Environmental Pedology

- Satisfactorily complete an approved research project in SWS 4905 or SWS 4941.
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply fundamental principles of chemistry and physics in relation to critical zone processes in the pedosphere and hydrosphere.
2. Classify fundamental biological processes and differentiate basic organism function in soil and hydrologic systems.
3. Utilize field observations, case study evidence and experimental data to describe soil formation, morphology and interactions of the varied components of the hydrologic cycle.

Critical Thinking

4. Critically evaluate the sustainability of water resources in relation to human needs and natural ecosystem function.
5. Demonstrate quantitative problem-solving abilities by applying, analyzing and synthesizing content knowledge related to soil and water chemistry and physics.

Communication

6. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C						I, R, A
SWS 2007	I	I	I	I		
SWS 3022	I	I	I		I	
SWS 4245	R, A		R, A	R, A	R	R
SWS 4303C		R, A				R
SWS 4307		R, A				R
SWS 4451	R, A				R, A	
SWS 4602C	R, A		R			
SWS 4715C			R, A			

Assessment Types

- Case studies
- Field studies
- Lab assignments and reports
- Written analysis
- Exams

Soil and Water Sciences Minor

Established in 1870, the mission of the College of Agricultural and Life Sciences is to deliver unsurpassed educational programs that prepare students to address the world's critical challenges related to agriculture, food systems, human well-being, natural resources and sustainable communities.

Contact

2020 McCarty Hall D
P.O. Box 110270
University of Florida
Gainesville, FL 32611-0270
352.392.1963

Map (http://campusmap.ufl.edu/?loc=0498) More Info (http://cals.ufl.edu)

Academic Advising
2020 McCarty Hall D
352.392.1963

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **School:** Natural Resources and Environment (p. 1356)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Soil and Water Sciences Programs**

This minor must include SWS 3022 and SWS 3022L. Additional SWS courses must be approved in writing by the academic advisor and the undergraduate coordinator in soil and water science at least two semesters before graduation. Courses taught outside the Department of Soil and Water Sciences cannot be used to fulfill requirements for this minor.

Fifteen credits in soils courses are necessary for certification as a soil scientist and/or to work for the federal government as a soil scientist. Some courses offered in soil and water sciences will not be accepted for certification or to work for the federal government.

Required Courses

Code	Title	Credits
SWS 3022	Introduction to Soils in the Environment	4
& 3022L	and Introduction to Soils in the Environment Laboratory	
Approved electives		11
Total Credits		15

Approved Electives

Code	Title	Credits
AGG 4502	Nanotechnology in Food, Agriculture, and Environment	3
ALS 3133	Agricultural and Environmental Quality	3
ALS 4154	Global Agroecosystems	3
SWS 2007	The World of Water	3
SWS 2008	Land and Life	3
SWS 3023L	Soil Judging	2
SWS 4116	Environmental Nutrient Management	3
SWS 4180	Earth System Analysis	3
SWS 4204	Urban Soil and Water Systems	3
SWS 4207	Sustainable Agricultural and Urban Land Management	3
SWS 4223	Environmental Biogeochemistry	3
SWS 4231C	Soil, Water and Land Use	3
SWS 4233	Soil and Water Conservation	3
SWS 4244	Wetlands	3
SWS 4245	Water Resource Sustainability	3
SWS 4303C	Soil Microbial Ecology	3
SWS 4307	Ecology of Waterborne Pathogens	3
SWS 4451	Soil and Water Chemistry	3
SWS 4550	Soils, Water and Public Health	3
SWS 4602C	Soil Physics	3
SWS 4715C	Environmental Pedology	4
SWS 4720C	GIS in Soil and Water Science	3
SWS 4800	Environmental Soil and Water Monitoring Techniques	3
SWS 4905	Individual Work	1-3
SWS 4932	Special Topics in Soil and Water Science	1-3

Related Soil and Water Science Programs

- Bachelor of Science in Soil and Water Sciences (p. 293)

Urban Pest Management Certificate

The urban pest management certificate offers training to place-bound employees of the pest control and related industries who desire advanced training in household, structural and nuisance pests, including identification and management.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** Email (capinera@ufl.edu) | 352.273.3905

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Required Courses

Code	Title	Credits
ENY 3005	Principles of Entomology	3
& 3005L	and Principles of Entomology Laboratory	
ENY 3222C	Biology and Identification of Urban Pests	3
ENY 3225C	Principles of Urban Pest Management	3
Approved electives		6
Total Credits		15

Approved Electives

Code	Title	Credits
ENY 3228	Urban Vertebrate Pest Management	2
ENY 4161	Insect Classification	3
ENY 4573	Beekeeping	3
ENY 4660	Medical and Veterinary Entomology	2
ENY 4660L	Medical and Veterinary Entomology Laboratory	1
ENY 5236	Insct/Pest/Vctr Manag	3

Wildlife Ecology and Conservation

This major focuses on developing students' knowledge of the conservation and management of wildlife and habitats for the greatest aesthetic, ecological, economic, and recreational values. Students in the Wildlife Ecology and Conservation major study biology, chemistry, ecology, calculus, soil science, plant taxonomy, entomology, geography, zoology, and sustainability.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Preprofessional (p. 309) | Wildlife Ecology and Conservation (p. 305)
- **Credits for Degree:** 120
- **Contact**
- **Additional Information**
- **Related Wildlife Ecology and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The department also co-administers a major in natural resource conservation with the School of Forest Resources and Conservation.
More Info (p. 235)

Related Wildlife Ecology and Conservation Programs

- Bachelor of Science in Forest Resources and Conservation (p. 156)
- Wildlife Ecology and Conservation minor (p. 313)

Academic Learning Compact

The primary focus of the wildlife ecology and conservation major is to develop students' knowledge of the conceptual and applied aspects of scientific, social and ethical thought in wildlife ecology and conservation. Emphasis is placed on the biology, ecology, natural history and behavior of Florida wildlife species and the management of wildlife, their habitats and their population dynamics for the greatest aesthetic, ecological, economic and recreational values. Students will learn to think critically about major problems in the conservation of biological diversity and to apply biological principles to the preservation of this diversity.

Before Graduating Students Must

- Pass the wildlife ecology and conservation competency exam, given as part of WIS 4203C or WIS 4554 .
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Acquire knowledge of scientific, social and ethical arenas of wildlife ecology and conservation; acquire skills for critical reasoning in conservation management; acquire knowledge of Florida wildlife species and their biology, ecology, natural history and behavior; describe principles and applications of wildlife management practices, population dynamics and habitat management; and apply biological principles to solve problems in wildlife conservation and preserve biological diversity.

Critical Thinking

2. Apply ecological, mathematical and statistical concepts to interpret, understand and communicate wildlife ecology and conservation data.

Communication

3. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
AEC 3030C			I,R,A
AEC 3033C			I,R,A
WIS 2920	I	I	I
WIS 3401	R	R	R
WIS 3402 and WIS 3402L	R		R
WIS 4203C or WIS 4554	A	A	R

Assessment Types

- Exams
- Final course grades

Wildlife Ecology and Conservation | BS

This major focuses on developing students' knowledge of the conservation and management of wildlife and habitats for the greatest aesthetic, ecological, economic, and recreational values. Students in the Wildlife Ecology and Conservation major study biology, chemistry, ecology, calculus, soil science, plant taxonomy, entomology, geography, zoology, and sustainability.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Preprofessional (p. 309) | Wildlife Ecology and Conservation (p. 305)
- **Credits for Degree:** 120
- **Contact**
- **Additional Information**
- **Related Wildlife Ecology and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The department also co-administers a major in natural resource conservation with the School of Forest Resources and Conservation.
More Info (p. 235)

Related Wildlife Ecology and Conservation Programs

- Bachelor of Science in Forest Resources and Conservation (p. 156)
- Wildlife Ecology and Conservation minor (p. 313)

Wildlife Ecology and Conservation

Students in this specialization train in the biological, social, physical and management sciences, and excel at both the scientific and human dimensions of managing wildlife and natural resources. With appropriate choice of electives and course options (below), graduates satisfy requirements for certification as an associate wildlife biologist with The Wildlife Society.

Students select a focus area comprised of four courses (minimum of 12 credits) in one of the following areas: ecology, management, human dimensions, quantitative science or urban and regional planning (combined degree program only).

All students must file a plan of study for focus area courses with Wildlife Ecology and Conservation (WEC) Student Services before completing 60 credits in the major or before the end of the first term of enrollment for transfer students. The plan must be approved by both the student's faculty advisor and the undergraduate coordinator. Any changes to the plan must be approved by the undergraduate coordinator.

Lists of approved courses are available in the WEC Student Services Office, 102 Newins-Ziegler Hall.

Critical Tracking

Critical Tracking records each student’s progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=030501&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 6 critical-tracking courses, excluding labs: BSC 2010/2010L, BSC 2011/2011L, CHM 2045/2045L, AEB 2014 or AEB 3103 or ECO 2023, MAC 2311, STA 2023
- 2.5 GPA on required math and science courses combined
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA on required math and science courses combined
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.5 GPA on required math and science courses combined
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses, excluding labs
- 2.5 GPA on required math and science courses combined
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.5 GPA on required math and science courses combined
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
WIS 2920	Wildlife Colloquium	1
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Elective		2
	Credits	13
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**)	
AEB 3103	Principles of Food and Resource Economics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16-17
Semester Three		
AEC 3030C	Effective Oral Communication	3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement: 6,000 words)	3
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological Sciences and Physical Sciences)	4
Select one:		3-4
FOR 3153C	Forest Ecology	
PCB 3601C	Plant Ecology	
PCB 4043C	General Ecology	
WIS 3404	Natural Resource Ecology	
Gen Ed Composition; Writing Requirement: 6,000 words		3
	Credits	16-17
Semester Four		
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; Gen Ed Mathematics)	4
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Physical Sciences)	4
WIS 3402 & 3402L	Wildlife of Florida and Wildlife of Florida Laboratory	4
Select one:		3
Gen Ed Humanities		
Gen Ed Social and Behavioral Sciences		
	Credits	15
Semester Five		
Select one plant diversity and taxonomy course (1 of 2):		3-4
BOT 2011C	Plant Diversity	
BOT 2710C	Practical Plant Taxonomy	
BOT 3151C	Local Flora of North Florida	
FNR 3131C	Dendrology/Forest Plants	
ORH 3513C	Environmental Plant Identification and Use	
Select one:		3-4

ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	
ENY 4210	Insects and Wildlife	
ZOO 4205C	Invertebrate Biodiversity	
Select one:		3-4
FOR 3434C	Forest Resources Information Systems	
GIS 3043	Foundations of Geographic Information Systems	
GIS 3072C	Geographic Information Systems	
URP 4273	Survey of Planning Information Systems	
WIS 3401	Wildlife Ecology and Management	3
Select one:		4
WIS 4934	Topics in Wildlife Ecology and Conservation (Large Mammal Ecology and Management)	
ZOO 4307C	Vertebrate Biodiversity	
ZOO 4472C	Avian Biology	
ZOO 4926	Special Topics in Zoology (Mammalogy)	
ZOO 4926	Special Topics in Zoology (Herpetology)	
	Credits	16-19
Semester Six		
Select one plant diversity and taxonomy course (2 of 2):		3-4
BOT 2011C	Plant Diversity	
BOT 2710C	Practical Plant Taxonomy	
BOT 3151C	Local Flora of North Florida	
FNR 3131C	Dendrology/Forest Plants	
ORH 3513C	Environmental Plant Identification and Use	
WIS 3553C	Introduction to Conservation Genetics	4
WIS 4945C	Wildlife Techniques	4
Focus course		3
	Credits	14-15
Semester Seven		
FNR 4660 or ECP 3302	Natural Resource Policy and Economics or Environmental Economics and Resource Policy	3-4
Select one:		3
FNR 4070C	Environmental Education Program Development	
FOR 3202	Society and Natural Resources	
FOR 4664	Sustainable Ecotourism Development	
WIS 4523	Human Dimensions of Natural Resource Conservation	
WIS 4554 or WIS 4203C	Conservation Biology or Landscape Ecology and Conservation	3
WIS 4601C	Quantitative Wildlife Ecology	3
Focus course		3
	Credits	15-16
Semester Eight		
WIS 4501	Introduction to Wildlife Population Ecology	3
Focus courses		6
Electives		6
	Credits	15
	Total Credits	120

Additional electives may be needed to complete the 120 credits required for graduation. Students can choose any courses as electives.

State core courses can be selected to meet the university's requirements for writing, international and diversity focused courses.

Academic Learning Compact

The primary focus of the wildlife ecology and conservation major is to develop students' knowledge of the conceptual and applied aspects of scientific, social and ethical thought in wildlife ecology and conservation. Emphasis is placed on the biology, ecology, natural history and behavior of Florida wildlife species and the management of wildlife, their habitats and their population dynamics for the greatest aesthetic, ecological, economic and recreational values. Students will learn to think critically about major problems in the conservation of biological diversity and to apply biological principles to the preservation of this diversity.

Before Graduating Students Must

- Pass the wildlife ecology and conservation competency exam, given as part of WIS 4203C or WIS 4554 .
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Acquire knowledge of scientific, social and ethical arenas of wildlife ecology and conservation; acquire skills for critical reasoning in conservation management; acquire knowledge of Florida wildlife species and their biology, ecology, natural history and behavior; describe principles and applications of wildlife management practices, population dynamics and habitat management; and apply biological principles to solve problems in wildlife conservation and preserve biological diversity.

Critical Thinking

2. Apply ecological, mathematical and statistical concepts to interpret, understand and communicate wildlife ecology and conservation data.

Communication

3. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
AEC 3030C			I,R,A
AEC 3033C			I,R,A
WIS 2920	I	I	I
WIS 3401	R	R	R
WIS 3402 and WIS 3402L	R		R
WIS 4203C or WIS 4554	A	A	R

Assessment Types

- Exams
- Final course grades

Wildlife Ecology and Conservation | Preprofessional

This major focuses on developing students' knowledge of the conservation and management of wildlife and habitats for the greatest aesthetic, ecological, economic, and recreational values. Students in the Wildlife Ecology and Conservation major study biology, chemistry, ecology, calculus, soil science, plant taxonomy, entomology, geography, zoology, and sustainability.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Degree:** Bachelor of Science
- **Specializations:** Preprofessional (p. 309) | Wildlife Ecology and Conservation (p. 305)
- **Credits for Degree:** 120
- **Contact**
- **Additional Information**
- **Related Wildlife Ecology and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The department also co-administers a major in natural resource conservation with the School of Forest Resources and Conservation.
More Info (p. 235)

Related Wildlife Ecology and Conservation Programs

- Bachelor of Science in Forest Resources and Conservation (p. 156)
- Wildlife Ecology and Conservation minor (p. 313)

Preprofessional

This specialization satisfies the coursework requirements for admission to the Doctor of Veterinary Medicine program. Students pursuing admission to the College of Veterinary Medicine must take six credits of general education composition, nine credits of humanities and six credits of social and behavioral sciences.

Some students can also satisfy requirements for certification as an associate wildlife biologist by The Wildlife Society. Certification requirements and application material are available at www.wildlife.org (http://www.wildlife.org).

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=030501&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 7 critical-tracking courses, excluding labs: BSC 2010/2010L, BSC 2011/2011L, CHM 2045/2045L, CHM 2046/2046L, AEB 2014 or AEB 3103 or ECO 2023, MAC 2311, STA 2023
- 2.5 GPA on required math and science courses combined
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses, excluding labs
- 2.5 GPA on required math and science courses combined
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.5 GPA on required math and science courses combined
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses, excluding labs
- 2.5 GPA on required math and science courses combined
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.5 GPA on required math and science courses combined
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4

CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
WIS 2920	Wildlife Colloquium	1
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
Select one:		3
Gen Ed Humanities		
Gen Ed Social and Behavioral Sciences		
	Credits	15
Semester Two		
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Composition; Writing Requirement: 6,000 words		3
	Credits	14
Semester Three		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement: 6,000 words)	3
CHM 2210	Organic Chemistry 1	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; Gen Ed Mathematics)	4
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16
Semester Four		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**)	
AEB 3103	Principles of Food and Resource Economics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
CHM 2211	Organic Chemistry 2	5
& 2211L	and Organic Chemistry Laboratory	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
WIS 3402	Wildlife of Florida	4
& 3402L	and Wildlife of Florida Laboratory	
	Credits	15-16
Semester Five		
Select one:		3-4
FOR 3153C	Forest Ecology	
PCB 3601C	Plant Ecology	
PCB 4043C	General Ecology	
WIS 3404	Natural Resource Ecology	
PHY 2053	Physics 1	5
& 2053L	and Laboratory for Physics 1	
WIS 3401	Wildlife Ecology and Management	3
Elective		3
	Credits	14-15
Semester Six		
AGR 3303	Genetics	3-4
or PCB 3063	or Genetics	
PHY 2054	Physics 2	5
& 2054L	and Laboratory for Physics 2	
WIS 4501	Introduction to Wildlife Population Ecology	3
Elective		4
	Credits	15-16
Semester Seven		
AEC 3030C	Effective Oral Communication	3
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
or CHM 3218	or Organic Chemistry/Biochemistry 2	
Select one:		3
WIS 4523	Human Dimensions of Natural Resource Conservation	

FNR 4070C	Environmental Education Program Development	
FOR 3202	Society and Natural Resources	
FOR 4664	Sustainable Ecotourism Development	
WIS 4554	Conservation Biology	3
or WIS 4203C	or Landscape Ecology and Conservation	
Elective		3
	Credits	16
Semester Eight		
Select 9-11 credits:		9-11
ANS 3006	Introduction to Animal Science	
& 3006L	and Introduction to Animal Science Laboratory	
ANS 3440	Principles of Animal Nutrition	
WIS 4203C	Landscape Ecology and Conservation	
WIS 4427C	Wildlife Habitat Management	
WIS 4601C	Quantitative Wildlife Ecology	
WIS 4941	Internship in Wildlife Ecology and Conservation	
WIS 4945C	Wildlife Techniques	
MCB 3020	Basic Biology of Microorganisms	4
& 3020L	and Laboratory for Basic Biology of Microorganisms	
Elective		2
	Credits	15-17
	Total Credits	120

Additional electives may be needed to complete the 120 credits required for graduation. Students can choose any courses as electives.

State core courses can be selected to meet the university's requirements for writing, international and diversity focused courses.

Academic Learning Compact

The primary focus of the wildlife ecology and conservation major is to develop students' knowledge of the conceptual and applied aspects of scientific, social and ethical thought in wildlife ecology and conservation. Emphasis is placed on the biology, ecology, natural history and behavior of Florida wildlife species and the management of wildlife, their habitats and their population dynamics for the greatest aesthetic, ecological, economic and recreational values. Students will learn to think critically about major problems in the conservation of biological diversity and to apply biological principles to the preservation of this diversity.

Before Graduating Students Must

- Pass the wildlife ecology and conservation competency exam, given as part of WIS 4203C or WIS 4554 .
- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty team.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Acquire knowledge of scientific, social and ethical arenas of wildlife ecology and conservation; acquire skills for critical reasoning in conservation management; acquire knowledge of Florida wildlife species and their biology, ecology, natural history and behavior; describe principles and applications of wildlife management practices, population dynamics and habitat management; and apply biological principles to solve problems in wildlife conservation and preserve biological diversity.

Critical Thinking

2. Apply ecological, mathematical and statistical concepts to interpret, understand and communicate wildlife ecology and conservation data.

Communication

3. Create, interpret and analyze written text, oral messages and multimedia presentations used in agricultural and life sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
AEC 3030C			I,R,A
AEC 3033C			I,R,A

WIS 2920	I	I	I
WIS 3401	R	R	R
WIS 3402 and WIS 3402L	R		R
WIS 4203C or WIS 4554	A	A	R

Assessment Types

- Exams
- Final course grades

Wildlife Ecology and Conservation Minor

The wildlife ecology and conservation minor introduces the basic principles of ecology and their application to the challenges of biodiversity conservation and sustainability, especially with regard to wildlife and wildlife habitat.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 15-16
- **Related Wildlife Ecology and Conservation Programs**

Required Courses

Code	Title	Credits
Select one:		3-4
FOR 3153C	Forest Ecology	
PCB 3601C	Plant Ecology	
PCB 4043C	General Ecology	
WIS 3401	Wildlife Ecology and Management	3
WIS courses (3000 level or above)		9
Total Credits		15-16

Related Wildlife Ecology and Conservation Programs

- Bachelor of Science in Forest Resources and Conservation (p. 156)
- Bachelor of Science in Wildlife Ecology and Conservation (p. 304)

Design, Construction and Planning, College of

Established in 1925, the College of Design, Construction and Planning (DCP) is one of the largest such institutions in the country with more than 1,500 students. In addition to on-going projects that advance both scholarly study and professional practice, DCP contributes to community, state, regional and national efforts to conserve and improve the quality of the natural and built environments.

Contact

331 Architecture Building
P.O. Box 115701
University of Florida
Gainesville, FL 32611-5703
352.392.4836

Map (http://campusmap.ufl.edu/?loc=0268) More Info (http://www.dcp.ufl.edu)

Academic Advising

331 Architecture Building
352.392.4863

Established

1925. Today it is one of the largest design, planning and construction institutions in the country with more than 1,500 students.

Location

Academic programs and other resources are located in three campus buildings:

- the Architecture Building,
- the Fine Arts Complex (FAC) and
- Rinker Hall.

Off-campus facilities are located in Vicenza, Italy and Nantucket Island.

Schools and Departments

- School of Architecture
- Department of Interior Design

- Department of Landscape Architecture
- Department of Urban and Regional Planning
- M.E. Rinker Sr. School of Construction Management

Accredited

The following academic programs are accredited by the respective professional organizations of each unit.

Architecture

National Architectural Accrediting Board
1101 Connecticut Ave NW STE 410
Washington, DC 20036

Construction Management

American Council for Construction Education
825 W. Bitters Road, STE 103
San Antonio, Texas 78216

Interior Design

Council for Interior Design Accreditation
206 Grandville Ave., STE 350
Grand Rapids, MI 49503-2822

Landscape Architecture

American Society of Landscape Architects
636 Eye St., NW
Washington, DC 20001-3736

Urban and Regional Planning

Planning Accreditation Board
2334 W. Lawrence Ave STE 209
Chicago, IL 60625

Academic Advising

The college's advising center in 331 Architecture Building provides academic advising to undergraduate students in architecture, interior design, landscape architecture and sustainability and the built environment.

Undergraduate students in the Rinker School of Construction Management should report to 301 Rinker Hall for academic advising.

Scholarships

Scholarships within the college are available to students in the upper-division and graduate professional programs.

Guidance

Internships vary by academic unit. Consult the academic unit regarding its requirements for internships. The academic unit and the dean's office (331 ARCH) provide career guidance.
More Info (http://www.dcp.ufl.edu/faculty)

Students considering application to the college should anticipate expenditures for computers, travel, equipment and tools essential to their education as design, planning and construction professionals. For further information, contact the appropriate department/school.

Helpful Links

- College Website (https://dcp.ufl.edu)
- Combined Degrees (p. 1400)
- Computer Requirements (http://www.it.ufl.edu/policies/student-computing-requirements)
- Dean's List (p. 1385)

Academic Policies

Admission Requirements

Admission to this college is selective and cannot be guaranteed to applicants who satisfy minimum requirements. The college has established a selective admission process and priority is given to those applicants who, in the judgment of the appropriate department/school's admissions committee, have the greatest potential for successful completion of the program.

Admission Protocols for Native UF Students

Freshmen at the university are admitted directly into architecture, construction management, interior design, landscape architecture and sustainability and the built environment programs.

The college will monitor the progress of all students. Students who fall below the critical-tracking criteria for the degree program will have a hold placed on their records. They must see an advisor in the college/academic unit before they can advance register and continue in the program. They also may be referred to the Academic Advising Center to seek admission to another college.

Admission Protocols for Transfer Students *without* Coursework in Architecture, Interior Design and Landscape Architecture

Conditional admission is open to applicants who have:

- Accumulated 60 credits of college-level coursework (for university transfer only) or earned the A.A. degree (Florida public state college transfer students only),
- Completed two sequential foreign language courses in secondary school or 8-10 credits at the postsecondary level (or documented an equivalent level of proficiency), and
- Met the general admissions criteria, yet still need to complete first-year and second-year preprofessional courses.
  - Summer A is the primary semester for transfer admission for students without architecture or interior design prerequisites.
  - Fall is the primary entry semester for landscape architecture.
  - Transfer students without preprofessional courses are admitted conditionally and will be reviewed for selective admission into the third year of the program upon completion of the preprofessional courses, review of their academic performance and portfolio of work. These students may require as many as four semesters at the university to complete preprofessional requirements because of the sequential nature of the courses.

Each department/school may consider any or all of the following for admissions review:

- Architecture: Completion of MAC 1147 (or MAC 1140 and MAC 1114), PHY 2004 or PHY 2053
- Interior Design: Completion of MAC 1147 (or MAC 1140 and MAC 1114), PHY 2004 or PHY 2053, ARH 2051
- Landscape Architecture: Completion of MAC 1147 (or MAC 1140 and MAC 1114), BOT 2010C or BSC 2005
- Preprofessional GPA
- Achievements in preprofessional courses and/or courses related to the chosen plan of study
- Portfolio review or pin-up (design students)

Admission Protocols for Transfer Students in the Sustainability and the Built Environment Program

Conditional admission is open to applicants who have:

- Accumulated 60 credits of college-level coursework (for university transfer only) or earned the A.A. degree (Florida public state colleges and universities)
- Completed the standard online UF transfer application
- Completed two sequential foreign language courses in secondary school or 8-10 credits at the postsecondary level (or documented an equivalent level of proficiency)
- Completed ECO 2013, ECO 2023, MAC 1147 (or MAC 1140 and MAC 1114) and STA 2023 with minimum grades of C
- Achieved an overall minimum GPA of 3.0

Admission Protocols for Transfer Students with Coursework in Architecture, Interior Design or Landscape Architecture

Transfer students who will receive their Associate of Arts degree from a Florida public institution must meet or exceed the 60-credit admission protocols for admission to the college. The admission protocols for each department follow below:

Architecture Upper-Division Transfer

Any student who has earned an Associate of Arts degree in the course of completing a two-year pre-architecture program at one of the Florida public state colleges and universities (Broward College, Hillsborough College, Indian River College, Miami-Dade College, Palm Beach College, St. Petersburg College, Valencia College) can apply for admission into the UF Bachelor of Design program's upper division.

Both UF and Florida state college applicants for upper-division placement are ranked competitively according to overall grade point average, architectural grade point average and faculty evaluation of design studio work in the annual Pin-Up Exhibits (all calculated by UF standards) to determine whether or not they qualify for placement into UF's upper-division Bachelor of Design curriculum.

All applicants must apply to the university's Office of Admissions by the deadline to qualify for admission to the School of Architecture.

This is in addition to sending the School of Architecture the Notice to Pin Up by the deadline.

Students wishing to transfer from an institution with some design and related preprofessional courses may present a portfolio of work to the school for review and placement. Students will be placed in the program the committee determines is appropriate, which may necessitate a repeat of previous coursework.

Interior Design

Transfer students must contact the department to determine admission timing and eligibility. All students must complete general education and preprofessional coursework before admission to professional studies. Criteria for admission include review of design performance, transcript, letter and interview.

Students who need to complete preprofessional requirements should apply to the Summer A term to begin the required tracking courses. The remaining preprofessional courses may be completed during the next academic year. Students accepted for the sequence are admitted conditionally and their records will be reviewed during the next spring term for entry into professional courses in the junior year.

Students are admitted selectively to the professional program on the basis of portfolio review, overall grade point average, interview and letter of application. Notification of the admission decision will be made before the end of the spring semester for the junior class that begins that fall. Contact the department for current information.

Landscape Architecture

Transfer students must contact the department to determine admission timing and eligibility. All students must complete general education and preprofessional coursework before admission to professional studies. Criteria for admission include review of design performance, transcript, letter and interview.

Construction Management

Refer to the M.E. Rinker, Sr. School of Construction Management (p. 1333).

Application Deadlines

More Info (http://www.admissions.ufl.edu/ugrad/trappdates.html)

The programs in architecture, interior design and landscape architecture will admit students for third-year professional coursework only in the fall semester. Students who need to complete some or all of the preprofessional requirements shall be reviewed for the fall and Summer A semesters only.

The programs in building construction and fire and emergency services in the M.E. Rinker, Sr. School of Construction Management will admit students for third-year professional coursework in the fall and spring semesters.

The Office of Admissions (for transfer students) or the college dean's office (for UF students) must receive applications and all required credentials by the college/school application deadlines.

College Regulations

Dean's List (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors)

Field Trips

There are required field trips to give students an opportunity to broaden and expand their educational experience through study of planning,

design, construction and sustainability projects. Students may also be required to attend state and national professional meetings.

Maximum and Minimum Loads

A normal load is 14-16 credits per semester. A student may be permitted to register for more than 17 credits when the advisor feels the student's record justifies it.

The minimum is 12 credits for full-time status; students who wish to take fewer credits should be aware that certain university privileges and benefits require full-time status. It is the student's responsibility to verify the minimum academic load necessary.

Students who seek an adjustment to their academic load may petition the dean through the director of student services and the appropriate department chair.

While the preprofessional and professional course sequence must be maintained, variation of general education and elective coursework may occur. The four-year plans shown require an average of more than 16 credits per term, which may not be appropriate for all students. Students should plan their curricula well in advance so the course sequence and credit loads will accommodate the most effective academic progress, regardless of the number of terms required.

Practical Experience

Before graduating, students should get experience in the employment of practicing professionals in their field or in some allied profession. Such employment provides an introduction to the methods of actual practice and enables the student to derive increased benefit from advanced work in school. Students should contact their advisor for recommended or required practical experience.

Student Work

The college can retain student work for the purpose of record, accreditation, exhibition or instruction. Work produced while the student is enrolled in the college is the property of the college.

Degree Requirements

To be eligible for graduation, students must earn a 2.0 minimum overall grade point average and a 2.0 grade point average for all work attempted in the college. Students planning to enter the Graduate School must maintain a 3.0 average in the junior and senior years.

Graduating with Honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors)

Programs

MAJORS

- Architecture
- Interior Design
- Landscape Architecture | 5-Year Professional Program
- Sustainability and the Built Environment

MINORS

- Landscape Architecture Minor
- Sustainability and the Built Environment Minor
- Urban and Regional Planning Minor

Architecture

A student's creativity and individuality are rewarded in the School of Architecture's studio-based learning experience. Students benefit from the close student-to-teacher ratios and a true interdisciplinary learning environment.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **Degree:** Bachelor of Design | *B.Des., a preprofessional degree*
- **Credits for Degree:** 120
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

Many students supplement their education with study-abroad and off-site learning opportunities in Vicenza, Asia, Mexico, Nantucket and more. An extensive library, modern computer labs, woodshop, 3D fabrication lab and beautiful college environment facilitate creativity. Students regularly exhibit their models and drawings in the college's gallery.

The studio sequence progressively and thoroughly explores various formal, conceptual and technical considerations and how they interrelate in the creation of space. The ideas and experience that students gain in design studio are reinforced and amplified by support courses in history, theory, structural tectonics, building technology and construction materials and methods.

Field trips to broaden and expand students' educational experience are required and will be paid for by students. Students may also be required to attend state and national professional meetings.

The School of Architecture's preprofessional Bachelor of Design program prepares students for graduate school studies toward the accredited two-year Master of Architecture degree or for jobs in private practice.

National Architectural Accrediting Board

Most states require architects to hold accredited degrees. Two types of degrees accredited by the National Architectural Accrediting Board (NAAB) are the Bachelor of Architecture (5 years) and the Master of Architecture (1, 2 or 3 years depending on institution). Both degrees are structured for registration and licensure. UF's four-year preprofessional degree is not accredited by the NAAB; the two-year Master of Architecture degree is an accredited degree.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=040201&track=01) may be used for transfer students.

Semester 1

- Complete DCP 1003 in Semester 1 or 2 [1]
- Complete ARC 1301 and ARC 1701
- 2.75 UF GPA required

Semester 2

- Complete DCP 1003, if not completed in Semester 1 [1]
- Complete ARC 1302 and ARC 1702
- 2.75 UF GPA required

Semester 3

- Complete ARC 2180, ARC 2201, ARC 2303
- Complete MAC 1147 or PHY 2053
- 2.75 UF GPA required

Semester 4

- Complete ARC 2304 and ARC 2461
- Compete MAC 1147 and PHY 2053
- Complete pin-up requirement
- 2.75 UF GPA required

Semester 5

- Complete ARC 3320, ARC 3503 and ARC 3743

[1] Summer transfer students should complete DCP 1003 by Semester 4.

Model Semester Plan

Students are required to complete IDS 1161 in semester 1 or 2.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ARC 1301	Architectural Design 1 (**Critical Tracking**)	4
ARC 1701	Architectural History 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
DCP 1003	Creating our Built Environment ((**Critical Tracking**))	1
Gen Ed Mathematics		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
ARC 1302	Architectural Design 2 (**Critical Tracking**)	4

ARC 1702	Architectural History 2 (**Critical Tracking**; Gen Ed Humanities and International)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Composition; Writing Requirement		3
	Credits	16
Semester Three		
ARC 2180	Introduction to Digital Architecture (**Critical Tracking**)	3
ARC 2201	Theory of Architecture 1 (**Critical Tracking**; Gen Ed Humanities)	3
ARC 2303	Architectural Design 3 (**Critical Tracking**)	5
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	4
	Credits	15
Semester Four		
ARC 2304	Architectural Design 4 (**Critical Tracking**)	5
ARC 2461	Materials and Methods of Construction 1 (**Critical Tracking**)	3
PHY 2053	Physics 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences) [1]	4
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
ARC 3320	Architectural Design 5 (**Critical Tracking**)	6
ARC 3503	Introduction to Architectural Structures (**Critical Tracking**)	3
ARC 3743	Architectural History 3 (**Critical Tracking**)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15
Semester Six		
ARC 3181 or ARC 4310C	Advanced Topics in Digital Architecture [2] or Building Information Modeling	3
ARC 3321	Architectural Design 6	6
ARC 3610	Environmental Technology 1	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15
Semester Seven		
ARC 4220	Architectural Theory 2	3
ARC 4322	Architectural Design 7	6
ARC 4620	Environmental Technology 2	3
Elective [3]		3
	Credits	15
Semester Eight		
Select one:		3
ARC 3181	Advanced Topics in Digital Architecture [2]	
ARC 4310C	Building Information Modeling [2]	
Elective [3]		
ARC 3463	Materials and Methods of Construction 2	3
ARC 4323	Architectural Design 8	6
Elective [3]		3
	Credits	15
	Total Credits	120

1. The School of Architecture requires students to complete MAC 1147 and PHY 2053 before semester 5. Due to the rigorous nature of design studio, students should complete these courses during the summer semesters. MAC 2233 is recommended before graduating because of the admissions requirements of some graduate programs.
2. The School of Architecture requires students to complete ARC 3181 or ARC 4310C before graduating, in semester 6 or 8. Students should try to complete both courses.
3. Any 3000-level or higher academic course, any 1000-level or higher foreign language where the student is not a native speaker and where the course is taken at an SUS institution, or any course sequence toward a minor.

This program is limited access. At the end of semester 4, students will be selected according to a competitive ranking of all applicants by overall GPA, architectural GPA and faculty evaluation of design quality in the annual pin-up exhibits.

Academic Learning Compact

The Bachelor of Design requires students to demonstrate and to understand the creative design process and associated skills as they relate to problem solving and spatial organization. Students will develop skills in spatial design, graphic communication, materials, technology and environmental issues. Programs analyze existing and projected examples of build form, define fundamental principles and knowledge of the discipline, develop students' skills in the formation and projection of spatial experience and relate creativity to cultural and physical environment.

Before Graduating Students Must

- Follow and achieve national accreditation (NAAB) guidelines for terminal project and portfolio assessments.
- Receive acceptable review and assessment of studio work from faculty, industry professionals and peers.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Implement a creative and synthetic design process to produce unique and appropriate architectural proposals.
2. Create presentations utilizing appropriate disciplinary vocabulary and graphic skills that support design methodologies.
3. Acquire, interpret and analyze information as the basis for design proposals.

Critical Thinking

4. Communicate about the discipline to a variety of audiences using a variety of formats and approaches.
5. Acquire skills in drawing, electronic imaging, materials and environmental issues.

Communication

6. Create conceptually clear and expressive design proposals based on appropriate prioritization of issues, thoughtful analysis of project parameters and critical reflection of schematic ideas.
7. Produce designs built upon the relationship between human behavior and perception in relation to the built environment.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
ARC 3181					I	R	R
ARC 3320	R, A	R, A	R, A	R, A	R, A	R, A	R, A
ARC 3321	R, A	I, R, A	R, A	R, A	R, A	R, A	R, A
ARC 3463					R	R	R
ARC 3503				R	R		R
ARC 3610					I	I	I
ARC 3743						R	R
ARC 4220	R				R	R	R
ARC 4322	R, A	R, A	R, A	R, A	R, A	R, A	R, A
ARC 4323	I, R, A	R, A	R, A	R, A	R, A	R, A	R, A
ARC 4620	R	R	R				R

Assessment Types

- Projects
- Design studio juries
- Semester studio curriculum reviews

Interior Design

Consistently positioned as a leader nationally, UF's interior design program is recognized as an excellent major for students with strong creative and analytical skills who are self-motivated and work well in teams.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **Degree:** Bachelor of Design
- **Credits for Degree:** 120

- **Additional Information**
- **Related Interior Design Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Interior design is both an art and a science that involves the creation of imaginative and well-conceived spaces that:

- Serve the needs, function and requirements of individuals
- Provide a sense of place within both public and private spaces for group and individual activity
- Are appropriate and sustainable
- Include the community, owners, users, designers, planners and contractors as active participants in the design process.

Through the learning design process, graduates develop on all levels: as a thoughtful leader, an innovator, a collaborator and as an ethical and socially engaged human being. This program prepares students for professional careers in office design, retail, healthcare, residential and hospitality design. Examples of interior design specializations include historic preservation and environmental sustainability.

To give students first-hand design exposure, the department organizes trips to interact with designers in experienced firms, installations, significant buildings and exhibitions in cities such as Atlanta and Chicago. During the summer, upper-division students have opportunities to enroll in the international programs including the Detmold School for Architecture and Interior Architecture at the University of the Applied Sciences in Detmold, Germany. The department offers academic credit to explore professional opportunities through the required Design Field Experience (DFE) program. Interior design students may consider pursuing graduate studies in the program's 4+1 option to receive a Master of Interior Design.

Organized trips to experience interior design, architecture and art in urban settings are required in the junior and senior years. Students should plan to have adequate funds for these required field trips and for their design studio project materials.

The four-year program is accredited by the Council for Interior Design Accreditation (CIDA).

Related Interior Design Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500408&track=01) may be used for transfer students.

Semester 1

- Complete ARC 1301, DCP 1003, IND 1020, and IND 2100 with minimum grades of C
- 2.6 UF GPA required

Semester 2

- Complete ARC 1302 and IND 2130 with minimum grades of C
- 2.6 UF GPA required

Semester 3

- Complete ARC 2303, ARH 2051, IND 2313, and IND 2635
- 2.8 UF GPA required

Semester 4

- Complete IND 2214, IND 2422 and IND 2460C
- Successfully complete the selective admissions guidelines
- 2.85 UF GPA required
- Complete MAC 1147 and PHY 2053 prior to moving into Semester 5

Semester 5

- Complete IND 3215, IND 3468, and IND 3483

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ARC 1301	Architectural Design 1 (**Critical Tracking**)	4
DCP 1003	Creating our Built Environment ((**Critical Tracking**))	1
IND 1020	Design Innovation (**Critical Tracking**; Gen Ed Humanities)	3
IND 2100	History of Interior Design 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
MAC 1147	Precalculus Algebra and Trigonometry (State Core Gen Ed Mathematics (p. 23)) [1]	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	18
Semester Two		
ARC 1302	Architectural Design 2 (**Critical Tracking**)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
IND 2130	History of Interior Design 2 (**Critical Tracking**)	3
PHY 2053	Physics 1 (State Core Gen Ed Physical Sciences (p. 23)) [1]	4
Gen Ed Mathematics		3
	Credits	17
Semester Three		
ARC 2303	Architectural Design 3 (**Critical Tracking**)	5
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities)	3
IND 2313	Interior Design Communication Systems (**Critical Tracking**)	3
IND 2635	Design Environments and Human Interaction (**Critical Tracking**)	3
	Credits	14
Semester Four		
IND 2214	Introduction to Architectural Interiors (**Critical Tracking**)	4
IND 2422	Interior Finishes and Materials (**Critical Tracking**)	3
IND 2460C	Computer Applications in Three Dimensional Design (**Critical Tracking**)	3
Gen Ed Physical or Biological Sciences		3
	Credits	13
Semester Five		
IND 3215	Architectural Interiors 1 (**Critical Tracking**)	5
IND 3468	Interior Environmental Technologies (**Critical Tracking**)	3
IND 3483	Interior Design Construction Documents (**Critical Tracking**)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	15
Semester Six		
ENC 3254	Professional Writing in the Discipline (State Core Gen Ed Composition (p. 23))	3
IND 3216	Architectural Interiors 2	5
IND 3431	Interior Lighting	3
IND 3512	Professional Practice of Interior Design	3
	Credits	14
Semester Seven		
IND 4225	Advanced Architectural Interiors 1	6
IND 4450C	Advanced Interior Design Detailing and Construction Documents	4
IND 4940	Design Field Experience [2]	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16
Semester Eight		
IND 4226	Advanced Architectural Interiors 2	6
Gen Ed Social and Behavioral Sciences		3
Elective (3000/4000 level)		3
Elective		1
	Credits	13
	Total Credits	120

[1] The Department of Interior Design requires students to complete MAC 1147 and PHY 2053 before semester 5. Due to the rigorous nature of design studio, students should complete these courses during the summer semesters.

[2] The Department of Interior Design requires students to complete IND 4940 no later than semester 7. Due to the rigorous nature of design studio, students should complete this course the summer between semesters 6 and 7.

Interior design is a limited-access program. During the spring semester of the sophomore year, interior design faculty review each sophomore student's work and determine whether the student is prepared to continue as an interior design major. For more information, please contact the department regarding its selective admissions guidelines.

Academic Learning Compact

The four-year bachelor of design degree in Interior Design requires students to demonstrate and understand the creative design process and associated skills as they relate to problem solving and spatial organization. Students will develop skills in interior design, computer rendering and modeling, graphic communication, theory, materials and the history of interior design. In the studio, students explore advanced problem solving, communication skills and issues related to environmental technology, lighting, professional practice and interior construction.

Before Graduating Students Must

- Complete Council of Interior Design Accreditation academic requirements.
- Receive acceptable review and assessment of studio work from faculty, industry professionals and peers.
- Complete Design Field Experience assessments.
- Submit senior project.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of the behavioral sciences and human factors.
2. Apply all aspects of the design process to creative problem solving.

Critical Thinking

3. Evaluate, select and apply information and research findings to design.

Communication

4. Communicate visually, verbally and in written form appropriate to the purpose and audience.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
IND 3215	I	I	I	I
IND 3216	I	I	R, A	R, A
IND 3431	R, A	R, A	R, A	R, A
IND 3468	R, A	R, A	R, A	R, A
IND 3483	R, A	R, A	R, A	R, A
IND 3512	R, A	R, A	R, A	R, A
IND 4225	R, A	R, A	R, A	R, A
IND 4226	R, A	R, A	R, A	R, A
IND 4450C	R, A	R, A	R, A	R, A
IND 4940	R, A	R, A	R, A	R, A

Assessment Types

- Exams, research papers and projects (lecture and construction lab courses)
- Individual project work, portfolios and juried presentations (design studios)
- Design field experience and employer evaluations
- CIDA accreditation program completion and senior portfolio

Landscape Architecture Minor

The landscape architecture minor provides an overview of the profession, an introduction to environmental and cultural issues and to design, planning and management theory and applications. This minor does not qualify a student for practice or for professional licensure.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Landscape Architecture Programs**

To help chart coursework, application to the minor should be made as soon as possible after the student has been admitted to an upper-division college. To be considered, students must have a minimum 2.5 GPA.

Of the 15-credit minimum requirement, six credits are required. The remaining credits can be based on interests and background. Students with design, construction, engineering or other technical backgrounds may participate in design and/or construction studios in addition to lecture courses. Acceptance into studio courses is granted with instructor permission, if space is available.

Additional courses in the professional design and construction sequences and in graduate seminars may be possible for students with specialized backgrounds such as other design fields, building construction or engineering. The instructor's permission is required to take courses other than those listed below.

Required Courses

Code	Title	Credits
LAA 1920	Introduction to Landscape Architecture	3
or LAA 2710	History of Landscape Architecture	
LAA 2330	Site Analysis	3
Approved electives		9
Total Credits		15

Approved Electives

Code	Title	Credits
LAA 2376C	Design Communications 1 [1]	4
LAA 2532	Landscape Management	3
LAA 4210	Landscape Architecture Professional Practice	4
LAA 4230	Theories of Landscape Architecture	3
LAA 4905	Special Studies in Landscape Architecture	1-6
LAA 6382	Ecologic/Envir Policy	3

[1] Prereq: previous computer experience, permission of instructor and space availability.

Related Landscape Architecture Programs

- Bachelor of Landscape Architecture, 5-year professional program (p. 323)

Landscape Architecture | 5-Year Professional Program

The Bachelor of Landscape Architecture is an accredited professional degree that qualifies graduates to sit for state licensure. Graduates are well equipped to practice and advance the profession of landscape architecture or to continue in graduate studies. Students from the UF landscape architecture program have won numerous state and national American Society of Landscape Architecture (ASLA) Awards.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **Degree:** Bachelor of Landscape Architecture
- **Credits for Degree:** 144
- **Additional Information**
- **Related Landscape Architecture Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students in the major take advantage of nationally and internationally respected faculty, particularly in the final undergraduate independent project. Student work shows strength in ecologically based planning and design, urban issues and conservation; all of strategic concern in Florida and elsewhere.

Educational options include an eight-month internship, focused electives for individual specialization, competitions, and interdisciplinary certificates in historic preservation, sustainable design, geographical information systems (GIS) and wetlands. Studies abroad in international landscape architecture include a fall semester option at The Prague Institute in the Czech Republic.

Required field trips broaden and expand students' educational experiences. Students may have the opportunity to attend state and national professional meetings.

Related Landscape Architecture Programs

- Landscape Architecture minor (p. 323)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=040601&track=01) may be used for transfer students.

All coursework must be completed successfully in no more than two attempts with minimum grades of C.

Semester 1

- Complete DCP 1003 and LAA 1920 with a minimum grades of C
- 2.35 UF GPA required

Semester 2

- Complete ARC 1701 or ARC 1720, (MAC 1140 and MAC 1114) or MAC 1147, and BOT 2010C or BSC 2005
- 2.5 UF GPA required

Semester 3

- Complete ARC 1301
- Complete LAA 2330, LAA 2376C and LAA 2710 with minimum grades of C
- 2.75 UF GPA required

Semester 4

- Complete LAA 2360C, LAA 2379C and LAA 2532 with minimum grades of C
- Complete Selective Admission Portfolio Review
- 2.75 UF GPA required

Semester 5

- Complete LAA 3352C and LAA 3420 with minimum grades of C
- Complete ORH 3513C
- 2.75 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
DCP 1003	Creating our Built Environment (**Critical Tracking**)	1
ESC 1000	Introduction to Earth Science (State Core Gen Ed Physical or Behavioral Sciences (p. 23))	3

Select one:		3
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement)	
ENC 1102	Argument and Persuasion (State Core Gen Ed Composition (p. 23); Writing Requirement)	
LAA 1920	Introduction to Landscape Architecture (**Critical Tracking**)	3
State Core Gen Ed Mathematics (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16
Semester Two		
Select one:		3
ARC 1701	Architectural History 1 (**Critical Tracking**; Gen Ed Humanities and International)	
ARC 1720	Survey of Architecture History (**Critical Tracking**; Gen Ed Humanities and International)	
Select one:		3
BOT 2010C	Introductory Botany (**Critical Tracking**, preferred)	
BSC 2005	Biological Sciences (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		4-5
MAC 1140 & MAC 1114	Precalculus Algebra and Trigonometry (**Critical Tracking**; Gen Ed Mathematics)	
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**)	
Gen Ed Social and Behavioral Sciences		3
	Credits	16-17
Semester Three		
ARC 1301	Architectural Design 1 (**Critical Tracking**)	4
LAA 2330	Site Analysis (**Critical Tracking**)	3
LAA 2376C	Design Communications 1 (**Critical Tracking**)	4
LAA 2710	History of Landscape Architecture (**Critical Tracking**; Gen Ed Humanities)	3
	Credits	14
Semester Four		
LAA 2360C	Principles of Landscape Architecture (**Critical Tracking**)	5
LAA 2532	Landscape Management (**Critical Tracking**)	3
LAA 2379C	Design Communications 2 (**Critical Tracking**)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	15
Semester Five		
LAA 3352C	Planting Design Studio (**Critical Tracking**)	5
LAA 3420	Landscape Construction 1 (**Critical Tracking**)	5
ORH 3513C	Environmental Plant Identification and Use (**Critical Tracking**)	3
	Credits	13
Semester Six		
LAA 3350C	Site Design and Planning Studio	5
LAA 3421	Landscape Construction 2	5
Elective		3
	Credits	13
Semester Seven		
LAA 4940	Landscape Architecture Internship [1]	3
LAA 4941C	Extended Internship with Landscape Architect	9
	Credits	12
Semester Eight		
ENC 3254	Professional Writing in the Discipline (Gen Ed Composition)	3
LAA 4230	Theories of Landscape Architecture	3
LAA 4353C	Urban Design Studio	6
LAA 4394	Advanced Design Communication	3
	Credits	15
Semester Nine		
LAA 4356	Envir Plan Des Studio	6
LAA 4357	Senior Independent Project Seminar	2
LAA 4450	Landscape Architecture Design Implementation	5
Elective		2
	Credits	15

Semester Ten		
LAA 4210	Landscape Architecture Professional Practice	4
LAA 4358	Senior Independent Project	8
Elective		3
	Credits	15
	Total Credits	144

[1] **Summer and fall professional experience:** Complete the LAA 4940 and LAA 4941C landscape internship in the summer and fall of the fourth year of study.

This program is limited access. During the spring semester of the sophomore year, students must participate in an exhibit of their work in studio courses. Admission to the junior year is based on this exhibit and the preprofessional GPA.

Academic Learning Compact

The Bachelor of Landscape Architecture degree requires students to demonstrate and understand the ethical planning, design, implementation and management of the natural and cultural landscapes in Florida as the basis for professional studies and training.

Before Graduating Students Must

- Satisfy professional, faculty and peer review of studio work.
- Complete senior final studio project.
- Submit internship assessments.
- Complete internships that emphasize application of your design, planning and management knowledge.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Integrate concepts from the general body of knowledge of the profession of landscape architecture in design decision-making.
2. Apply core professional landscape architecture skills in design decision-making.
3. Apply ethical understanding to design decision-making.

Critical Thinking

4. Combine and analyze information from multiple sources to support design decision-making.

Communication

5. Produce professional visual, oral and written communications.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
LAA 1920	I				
LAA 2330	I	I, R	I		
LAA 2360	I, R	I, R, A		I, R, A	I, R
LAA 2376					I, R
LAA 2379					I, R
LAA 2532	I, R				
LAA 2710	I, R				
LAA 3350	I, R	I, R	I, R	I, R	R
LAA 3352	I, R	I, R		R	I, R
LAA 3420	I, R	I, R	I, R	R	I, R
LAA 3421	I, R	I, R	I, R	R	I, R
LAA 4210	I, R	I, R	I, R		R
LAA 4230	I, R				
LAA 4353	I, R	I, R		R	R
LAA 4356	I, R	I, R	R	R	I, R

LAA 4357	R		R	R	R
LAA 4358	R, A	R, A	R, A	R, A	R, A
LAA 4450	R	R	R	R	R
LAA 4940	R	I, R, A	R	R	R
LAA 4941	R	I, R, A	R	R	R

Assessment Types

- Selective admission, including a pin-up
- A juried capstone presentation and evaluation
- Employer evaluation of summer internship
- The Landscape Architectural Accreditation Board (LAAB) exam

Sustainability and the Built Environment

The Bachelor of Science in Sustainability and the Built Environment (BSSBE) enables students to explore creative solutions for the planning, design and construction of human structures and settlements.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **Degree:** Bachelor of Science in Sustainability and the Built Environment
- **Specializations:** Interdisciplinary (p. 334) | Geodesign (p. 329)
- **Credits for Degree:** 120
- **Contact:** Email (advising@dcp.ufl.edu?Subject=Sustainability and the Built Environment Major)
- **Additional Information**
- **Related Sustainability and the Built Environment Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Whether it is the redesign and rehabilitation of existing structures or innovative new design, students will be provided a theoretical foundation for seeking sustainable solutions to problems in the built environment. The degree program is supported by the globally recognized expertise in sustainability of the faculty in the College of Design, Construction and Planning and from across campus.

Graduates will have excellent opportunities for work in various green industries, for government agencies involved with regulation and management of the built environment and with nonprofit organizations promoting the principles of sustainability. Additionally students will be prepared to enter graduate school in architecture, building construction, historic preservation, interior design, landscape architecture and urban and regional planning.

Transfer students for either specialization must complete the A.A. degree, MAC 1147 or (MAC 1140 and MAC 1114), STA 2023, and ECO 2013 and ECO 2023 with minimum grades of C. Students must also have a 3.0 minimum overall GPA. Refer to the admissions website for transfer admission information, application deadlines and the online application.

Certain highly qualified students may have the option of pursuing a 4+1 or a 4+2 degree in urban and regional planning, landscape architecture or building construction.

Field trips to broaden and expand students' educational experiences through study of planning, design, construction, and sustainability projects *are required and will be paid for by students*.

Coursework for the Major

All students, regardless of specialization, are required to take 53 hours of core courses to develop knowledge of the fundamental concepts for sustainability and the built environment.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Core Courses

Code	Title	Credits
Select one:		3
BCN 1582	International Sustainable Development	
IDS 2935	Special Topics (Facets of Sustainability)	
ECO 2023	Principles of Microeconomics	4

ECO 2013	Principles of Macroeconomics	4
A history course in architecture, construction management, interior design, landscape architecture, or urban and regional planning		
LAA 2330	Site Analysis	3
STA 2023	Introduction to Statistics 1	3
DCP 3210	Sustainable Solutions for the Built Environment	3
DCP 3220	Social and Cultural Sustainability and the Built Environment	3
An approved ecology and the built environment course		
An approved ethics and/or environmental justice course		
An approved energy and/or climate change course		
An approved resource economics course		
DCP 3200	Methods of Inquiry for Sustainability and the Built Environment	3
DCP 4941	Practicum in Sustainability and the Built Environment	6
or DCP 4942	Field Experience in Sustainability and the Built Environment	
DCP 4290	Capstone Project in Sustainability and the Built Environment	6
Total Credits		38

Related Sustainability and the Built Environment Programs

- Sustainability and the Built Environment minor (p. 339)

Academic Learning Compact

The Bachelor of Science in Sustainability and the Built Environment requires students to demonstrate an understanding of the relationship between the goals of sustainability and the activities of the built environment disciplines, including architecture, building construction, historic preservation, interior design, landscape architecture and urban and regional planning.

Before Graduating Students Must

- Complete a capstone or independent research project, present your results to a committee of the program's faculty and receive acceptable assessment.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain sustainability principles.
2. Integrate knowledge and principles from sustainability-related disciplines.
3. Describe the role of the built environment in sustainability.
4. Combine information from multiple sources to solve problems.

Critical Thinking

5. Frame sustainable problems and potential solutions within a global context.
6. Collect and analyze data to solve problems.
7. Produce sustainable solutions for problems of the built environment.
8. Integrate multiple disciplinary, cultural and stakeholder perspectives for sustainable problem solving.

Communication

9. Produce an effective oral presentation.
10. Produce effective written communications.
11. Integrate a variety of visual techniques to enhance the communication of ideas and solutions.
12. Solve a built environment sustainability problem in a multidisciplinary team.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12
DCP 3200				I, R		I, R			I, R	I, R		
DCP 3210	I		I	I, R	I, R	I, R	I, R		I, R		I, R	
DCP 3220	R		R	R	R	R	R	I, R	R	R	R	I, R, A
DCP 4290	A	A	A	A	A	A	A	A	A	A	A	

DCP 4910	A	A	A	A	A	A	A	A	A	A	A
DCP 4941	R		R	R	R	R	R	R	R		R
DCP 4942	R		R	R					R		
Approved Electives[1]		R	R								
Ecology for the Built Environment (one course)[1]		I, R									
Energy and/or Climate Change (one course)[1]		I, R									
Ethics and Environmental Justice (one course)[1]		I, R									
Resource Economics (one course)[1]		I, R									

[1] Student chooses from courses listed in semesters 5-7 of the major's semester plan.

Assessment Types

- Capstone evaluation
- Final project evaluation

Sustainability and the Built Environment | Geodesign

The Bachelor of Science in Sustainability and the Built Environment (BSSBE) enables students to explore creative solutions for the planning, design and construction of human structures and settlements.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **Degree:** Bachelor of Science in Sustainability and the Built Environment
- **Specializations:** Interdisciplinary (p. 334) | Geodesign (p. 329)
- **Credits for Degree:** 120
- **Contact:** Email (advising@dcp.ufl.edu?Subject=Sustainability and the Built Environment Major)
- **Additional Information**
- **Related Sustainability and the Built Environment Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Whether it is the redesign and rehabilitation of existing structures or innovative new design, students will be provided a theoretical foundation for seeking sustainable solutions to problems in the built environment. The degree program is supported by the globally recognized expertise in sustainability of the faculty in the College of Design, Construction and Planning and from across campus.

Graduates will have excellent opportunities for work in various green industries, for government agencies involved with regulation and management of the built environment and with nonprofit organizations promoting the principles of sustainability. Additionally students will be prepared to enter graduate school in architecture, building construction, historic preservation, interior design, landscape architecture and urban and regional planning.

Transfer students for either specialization must complete the A.A. degree, MAC 1147 or (MAC 1140 and MAC 1114), STA 2023, and ECO 2013 and ECO 2023 with minimum grades of C. Students must also have a 3.0 minimum overall GPA. Refer to the admissions website for transfer admission information, application deadlines and the online application.

Certain highly qualified students may have the option of pursuing a 4+1 or a 4+2 degree in urban and regional planning, landscape architecture or building construction.

Field trips to broaden and expand students' educational experiences through study of planning, design, construction, and sustainability projects *are required and will be paid for by students*.

Coursework for the Major

All students, regardless of specialization, are required to take 53 hours of core courses to develop knowledge of the fundamental concepts for sustainability and the built environment.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Core Courses

Code	Title	Credits
Select one:		3
BCN 1582	International Sustainable Development	
IDS 2935	Special Topics (Facets of Sustainability)	
ECO 2023	Principles of Microeconomics	4
ECO 2013	Principles of Macroeconomics	4
A history course in architecture, construction management, interior design, landscape architecture, or urban and regional planning		
LAA 2330	Site Analysis	3
STA 2023	Introduction to Statistics 1	3
DCP 3210	Sustainable Solutions for the Built Environment	3
DCP 3220	Social and Cultural Sustainability and the Built Environment	3
An approved ecology and the built environment course		
An approved ethics and/or environmental justice course		
An approved energy and/or climate change course		
An approved resource economics course		
DCP 3200	Methods of Inquiry for Sustainability and the Built Environment	3
DCP 4941	Practicum in Sustainability and the Built Environment	6
or DCP 4942	Field Experience in Sustainability and the Built Environment	
DCP 4290	Capstone Project in Sustainability and the Built Environment	6
Total Credits		38

Related Sustainability and the Built Environment Programs

- Sustainability and the Built Environment minor (p. 339)

Geodesign

The geodesign specialization is for students interested in the application of geographic information systems in the sustainable design of the built environment.

Critical Tracking

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=303301&track=01) may be used for transfer students.

Semester 1

- Complete BCN 1582 with minimum grade of C+
- Complete DCP 1010, DCP 1003, and LAA 2330 with minimum grades of C
- Complete MAC 1147 or (MAC 1140 and MAC 1114)
- 2.00 UF GPA required

Semester 2

- Complete ARC 1701 or ARC 1720 or BCN 3012 or IND 2100 or IND 2130 or LAA 2710 or URP 4000 with minimum grade of C
- Complete ECO 2023 with minimum grade of C
- 2.50 UF GPA required

Semester 3

- Complete DCP 2001 with minimum grade of C
- Complete ECO 2013 with minimum grade of C
- Complete STA 2023
- 2.75 UF GPA required

Semester 4

- Complete DCP 2002 with minimum grade of C
- Complete ENC 3254 with minimum grade of C
- 3.0 UF GPA required

Semester 5

- Complete DCP 3210 with minimum grades of C+
- Complete one: AEB 4126, REL 2104, or REL 3492 with minimum grade of C
- Complete GEO 3162C with minimum grade of C
- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Students will not be required to take more credit hours than required in semesters with less than 3 credit hours in electives. DCP advisors have a list of 1 and 2 credit hour electives in which students may enroll.

Course	Title	Credits
Semester One		
BCN 1582	International Sustainable Development (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and International)	3
DCP 1003	Creating our Built Environment	1
DCP 1010	Geodesign Colloquium	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
LAA 2330	Site Analysis (**Critical Tracking**)	3
Select one:		3-4
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	
MAC 1140	Precalculus Algebra (**Critical Tracking**; Gen Ed Mathematics)	
	Credits	14-15
Semester Two		
Select one history of a built environment course:		3
ARC 1701	Architectural History 1 (**Critical Tracking**; Gen Ed Humanities and International)	
ARC 1720	Survey of Architecture History (**Critical Tracking**; Gen Ed Humanities and International)	
BCN 3012	History of Construction (**Critical Tracking**; Gen Ed Humanities and International)	
IND 2100	History of Interior Design 1 (**Critical Tracking**; Gen Ed Humanities)	
IND 2130	History of Interior Design 2 (**Critical Tracking**; Gen Ed Humanities)	
LAA 2710	History of Landscape Architecture (**Critical Tracking**; Gen Ed Humanities and International)	
URP 4000	Preview of Urban and Regional Planning (**Critical Tracking**; Gen Ed Humanities)	
DCP 1241	Introduction to Spatial Thinking	3
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
ENC 1101	Expository and Argumentative Writing (Gen Ed Composition)	3
Elective (lower-division)		2
	Credits	15

Semester Three		
DCP 2001	Introduction to GIS I	3
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
GEO 2200	Physical Geography (Gen Ed Physical Sciences)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Elective (1000/2000 level)		2
	Credits	15
Semester Four		
DCP 2002	Introduction to GIS II	3
ENC 3254	Professional Writing in the Discipline (State Core Gen Ed Composition (p. 23))	3
IDS 4930	Special Topics in Interdisciplinary Studies (Gen Ed Physical Science)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15
Semester Five		
DCP 3210	Sustainable Solutions for the Built Environment (**Critical Tracking**)	3
Select one ethics and environmental justice course:		3
AEB 4126	Agricultural and Natural Resource Ethics (**Critical Tracking**)	
REL 2104	Environmental Ethics (**Critical Tracking**)	
REL 3492	Religion Ethics and Nature (**Critical Tracking**)	
GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
Select one resource economics course:		3
AEB 2451	Economics of Resource Use (**Critical Tracking**)	
AEB 3450	Introduction to Natural Resource and Environmental Economics (**Critical Tracking**)	
AEB 4283	International Development Policy (**Critical Tracking**)	
FOR 4664	Sustainable Ecotourism Development (**Critical Tracking**)	
GEO 2500	Global and Regional Economies (**Critical Tracking**)	
URP 4230	3D Modeling, Visualization, and Simulation	3
	Credits	16
Semester Six		
DCP 3220	Social and Cultural Sustainability and the Built Environment	3
Select one ecology for the built environment course:		3
EES 4316	Industrial Ecology	
FOR 4090C	Urban Forestry	
SWS 2007	The World of Water	
SWS 2008	Land and Life	
WIS 4203C	Landscape Ecology and Conservation	
WIS 4427C	Wildlife Habitat Management	
WIS 4523	Human Dimensions of Natural Resource Conservation	
URP 4283	Automation for Geospatial Modeling and Analysis	3
Approved electives		6
	Credits	15
Semester Seven		
DCP 3200	Methods of Inquiry for Sustainability and the Built Environment	3
DCP 4945	Geodesign Practicum I	5
Approved elective		3
Elective (3000/4000 level)		3
	Credits	14
Semester Eight		
DCP 4290	Capstone Project in Sustainability and the Built Environment	6
Approved electives		6
Elective (3000/4000 level)		3
	Credits	15
	Total Credits	119-120

Approved Electives

Any 3000/4000-level course in the College of Design, Construction and Planning not otherwise required.

Additional courses that also fulfill this requirement:

Code	Title	Credits
AEB 2451	Economics of Resource Use	3
AEB 4126	Agricultural and Natural Resource Ethics	3
AEB 4283	International Development Policy	3
AGG 3501	Environment, Food and Society	3
ANT 4403	Environment and Cultural Behavior	3
AOM 2520	Global Sustainable Energy: Past, Present and Future	3
ARC 2304	Architectural Design 4	5
EES 4050	Environmental Planning and Design	3
EES 4316	Industrial Ecology	3
FNR 4660	Natural Resource Policy and Economics	3
FOR 3004	Forests, Conservation and People	3
FOR 3153C	Forest Ecology	3
FOR 4060	Global Forests	3
FOR 4090C	Urban Forestry	3
GEO 2500	Global and Regional Economies	3
GEO 3372	Conservation of Resources	3
IND 2214	Introduction to Architectural Interiors	4
LAA 2360C	Principles of Landscape Architecture	5
REL 3492	Religion Ethics and Nature	3
SWS 2007	The World of Water	3
SWS 2008	Land and Life	3
WIS 4203C	Landscape Ecology and Conservation	3
WIS 4427C	Wildlife Habitat Management	3
WIS 4523	Human Dimensions of Natural Resource Conservation	3

Academic Learning Compact

The Bachelor of Science in Sustainability and the Built Environment requires students to demonstrate an understanding of the relationship between the goals of sustainability and the activities of the built environment disciplines, including architecture, building construction, historic preservation, interior design, landscape architecture and urban and regional planning.

Before Graduating Students Must

- Complete a capstone or independent research project, present your results to a committee of the program's faculty and receive acceptable assessment.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain sustainability principles.
2. Integrate knowledge and principles from sustainability-related disciplines.
3. Describe the role of the built environment in sustainability.
4. Combine information from multiple sources to solve problems.

Critical Thinking

5. Frame sustainable problems and potential solutions within a global context.
6. Collect and analyze data to solve problems.
7. Produce sustainable solutions for problems of the built environment.
8. Integrate multiple disciplinary, cultural and stakeholder perspectives for sustainable problem solving.

Communication

9. Produce an effective oral presentation.
10. Produce effective written communications.
11. Integrate a variety of visual techniques to enhance the communication of ideas and solutions.
12. Solve a built environment sustainability problem in a multidisciplinary team.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12
DCP 3200				I, R		I, R			I, R	I, R		
DCP 3210	I		I	I, R	I, R	I, R	I, R		I, R		I, R	
DCP 3220	R		R	R	R	R	R	I, R	R	R	R	I, R, A
DCP 4290	A	A	A	A	A	A	A	A	A	A	A	
DCP 4910	A	A	A	A	A	A	A	A	A	A	A	
DCP 4941	R		R	R	R	R	R	R	R		R	
DCP 4942	R		R	R					R			
Approved Electives[1]		R	R									
Ecology for the Built Environment (one course)[1]		I, R										
Energy and/or Climate Change (one course)[1]		I, R										
Ethics and Environmental Justice (one course)[1]		I, R										
Resource Economics (one course)[1]		I, R										

[1] Student chooses from courses listed in semesters 5-7 of the major's semester plan.

Assessment Types

- Capstone evaluation
- Final project evaluation

Sustainability and the Built Environment | Interdisciplinary

The Bachelor of Science in Sustainability and the Built Environment (BSSBE) enables students to explore creative solutions for the planning, design and construction of human structures and settlements.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **Degree:** Bachelor of Science in Sustainability and the Built Environment
- **Specializations:** Interdisciplinary (p. 334) | Geodesign (p. 329)
- **Credits for Degree:** 120
- **Contact:** Email (advising@dcp.ufl.edu?Subject=Sustainability and the Built Environment Major)
- **Additional Information**
- **Related Sustainability and the Built Environment Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Whether it is the redesign and rehabilitation of existing structures or innovative new design, students will be provided a theoretical foundation for seeking sustainable solutions to problems in the built environment. The degree program is supported by the globally recognized expertise in sustainability of the faculty in the College of Design, Construction and Planning and from across campus.

Graduates will have excellent opportunities for work in various green industries, for government agencies involved with regulation and management of the built environment and with nonprofit organizations promoting the principles of sustainability. Additionally students will be prepared to enter graduate school in architecture, building construction, historic preservation, interior design, landscape architecture and urban and regional planning.

Transfer students for either specialization must complete the A.A. degree, MAC 1147 or (MAC 1140 and MAC 1114), STA 2023, and ECO 2013 and ECO 2023 with minimum grades of C. Students must also have a 3.0 minimum overall GPA. Refer to the admissions website for transfer admission information, application deadlines and the online application.

Certain highly qualified students may have the option of pursuing a 4+1 or a 4+2 degree in urban and regional planning, landscape architecture or building construction.

Field trips to broaden and expand students' educational experiences through study of planning, design, construction, and sustainability projects *are required and will be paid for by students*.

Coursework for the Major

All students, regardless of specialization, are required to take 53 hours of core courses to develop knowledge of the fundamental concepts for sustainability and the built environment.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Core Courses

Code	Title	Credits
Select one:		3
BCN 1582	International Sustainable Development	
IDS 2935	Special Topics (Facets of Sustainability)	
ECO 2023	Principles of Microeconomics	4
ECO 2013	Principles of Macroeconomics	4
A history course in architecture, construction management, interior design, landscape architecture, or urban and regional planning		
LAA 2330	Site Analysis	3
STA 2023	Introduction to Statistics 1	3
DCP 3210	Sustainable Solutions for the Built Environment	3
DCP 3220	Social and Cultural Sustainability and the Built Environment	3
An approved ecology and the built environment course		
An approved ethics and/or environmental justice course		
An approved energy and/or climate change course		
An approved resource economics course		
DCP 3200	Methods of Inquiry for Sustainability and the Built Environment	3
DCP 4941	Practicum in Sustainability and the Built Environment	6
or DCP 4942	Field Experience in Sustainability and the Built Environment	
DCP 4290	Capstone Project in Sustainability and the Built Environment	6
Total Credits		38

Related Sustainability and the Built Environment Programs

- Sustainability and the Built Environment minor (p. 339)

Interdisciplinary

The interdisciplinary specialization is for students who want a general degree that emphasizes the importance of sustainability for all of the built environment fields.

Critical Tracking

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=303301&track=01) may be used for transfer students.

Semester 1

- Complete BCN 1582 with minimum grade of C+
- Complete DCP 1003 and LAA 2330 with a minimum grades of C

- Complete MAC 1147 or (MAC 1140 and MAC 1114)
- 2.00 UF GPA required

Semester 2

- Complete ARC 1701 or ARC 1720 or BCN 3012 or IND 2100 or IND 2130 or LAA 2710 or URP 4000 with minimum grade of C
- Complete ECO 2023 with minimum grade of C
- 2.50 UF GPA required

Semester 3

- Complete ECO 2013 with minimum grade of C
- Complete STA 2023
- 2.75 UF GPA required

Semester 4

- Complete ENC 3254 with minimum grade of C
- 3.0 UF GPA required

Semester 5

- Complete DCP 3210 with minimum grades of C+
- Complete one: AEB 4126, REL 2104, or REL 3492 with minimum grade of C
- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BCN 1582	International Sustainable Development (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and International)	3
ENC 1101	Expository and Argumentative Writing (Gen Ed Composition)	3
LAA 2330	Site Analysis (**Critical Tracking**)	3
Select one:		3-4
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	
MAC 1140	Precalculus Algebra (**Critical Tracking**; Gen Ed Mathematics)	
Elective (1000/2000 level)		3
	Credits	15-16
Semester Two		
Select one:		3
ARC 1701	Architectural History 1 (**Critical Tracking**; Gen Ed Humanities and International)	
ARC 1720	Survey of Architecture History (**Critical Tracking**; Gen Ed Humanities and International)	
BCN 3012	History of Construction (**Critical Tracking**; Gen Ed Humanities and International)	
IND 2100	History of Interior Design 1 (**Critical Tracking**; Gen Ed Humanities)	
IND 2130	History of Interior Design 2 (**Critical Tracking**; Gen Ed Humanities)	
LAA 2710	History of Landscape Architecture (**Critical Tracking**; Gen Ed Humanities and International)	
URP 4000	Preview of Urban and Regional Planning (**Critical Tracking**; Gen Ed Humanities)	
DCP 1003	Creating our Built Environment ((**Critical Tracking**))	1
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Electives (1000/2000 level)		4
	Credits	15
Semester Three		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3

Electives (1000/2000 level)		6
	Credits	16
Semester Four		
ENC 3254	Professional Writing in the Discipline (State Core Gen Ed Composition (p. 23))	3
IDS 4930	Special Topics in Interdisciplinary Studies (Gen Ed Physical Sciences)	3
State Core Gen Ed Humanities (p. 23)		3
Electives (1000/2000 level)		5
	Credits	14
Semester Five		
DCP 3210	Sustainable Solutions for the Built Environment (**Critical Tracking**)	3
Select one ethics or environmental justice course:		3
AEB 4126	Agricultural and Natural Resource Ethics (**Critical Tracking**)	
REL 2104	Environmental Ethics (**Critical Tracking**)	
REL 3492	Religion Ethics and Nature (**Critical Tracking**)	
Select one resource economics course:		3
AEB 2451	Economics of Resource Use (**Critical Tracking**)	
AEB 3450	Introduction to Natural Resource and Environmental Economics (**Critical Tracking**)	
AEB 4283	International Development Policy (**Critical Tracking**)	
FOR 4664	Sustainable Ecotourism Development (**Critical Tracking**)	
GEO 2500	Global and Regional Economies (**Critical Tracking**)	
Approved electives		6
	Credits	15
Semester Six		
DCP 3220	Social and Cultural Sustainability and the Built Environment	3
Select one ecology for the built environment course:		3
EES 4316	Industrial Ecology	
FOR 4090C	Urban Forestry	
SWS 2007	The World of Water	
SWS 2008	Land and Life	
WIS 4203C	Landscape Ecology and Conservation	
WIS 4427C	Wildlife Habitat Management	
WIS 4523	Human Dimensions of Natural Resource Conservation	
Select one energy and climate change course:		3
AGG 3501	Environment, Food and Society	
AOM 2520	Global Sustainable Energy: Past, Present and Future	
Approved electives		6
	Credits	15
Semester Seven		
DCP 3200	Methods of Inquiry for Sustainability and the Built Environment	3
Select a practicum in sustainability:		6
DCP 4941	Practicum in Sustainability and the Built Environment	
DCP 4942	Field Experience in Sustainability and the Built Environment	
Approved elective		3
Elective (3000/4000-level)		3
	Credits	15
Semester Eight		
DCP 4290	Capstone Project in Sustainability and the Built Environment	6
Approved electives		6
Elective (000/4000 level)		3
	Credits	15
	Total Credits	120

Approved Electives

Any 3000/4000-level course in the College of Design, Construction and Planning not otherwise required.
Additional courses that also fulfill this requirement:

Code	Title	Credits
AEB 2451	Economics of Resource Use	3
AEB 4126	Agricultural and Natural Resource Ethics	3
AEB 4283	International Development Policy	3

AGG 3501	Environment, Food and Society	3
ANT 4403	Environment and Cultural Behavior	3
AOM 2520	Global Sustainable Energy: Past, Present and Future	3
ARC 2304	Architectural Design 4	5
EES 4050	Environmental Planning and Design	3
EES 4316	Industrial Ecology	3
FNR 4660	Natural Resource Policy and Economics	3
FOR 3004	Forests, Conservation and People	3
FOR 3153C	Forest Ecology	3
FOR 4060	Global Forests	3
FOR 4090C	Urban Forestry	3
GEO 2500	Global and Regional Economies	3
GEO 3372	Conservation of Resources	3
IND 2214	Introduction to Architectural Interiors	4
LAA 2360C	Principles of Landscape Architecture	5
REL 3492	Religion Ethics and Nature	3
SWS 2007	The World of Water	3
SWS 2008	Land and Life	3
WIS 4203C	Landscape Ecology and Conservation	3
WIS 4427C	Wildlife Habitat Management	3
WIS 4523	Human Dimensions of Natural Resource Conservation	3

Academic Learning Compact

The Bachelor of Science in Sustainability and the Built Environment requires students to demonstrate an understanding of the relationship between the goals of sustainability and the activities of the built environment disciplines, including architecture, building construction, historic preservation, interior design, landscape architecture and urban and regional planning.

Before Graduating Students Must

- Complete a capstone or independent research project, present your results to a committee of the program's faculty and receive acceptable assessment.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain sustainability principles.
2. Integrate knowledge and principles from sustainability-related disciplines.
3. Describe the role of the built environment in sustainability.
4. Combine information from multiple sources to solve problems.

Critical Thinking

5. Frame sustainable problems and potential solutions within a global context.
6. Collect and analyze data to solve problems.
7. Produce sustainable solutions for problems of the built environment.
8. Integrate multiple disciplinary, cultural and stakeholder perspectives for sustainable problem solving.

Communication

9. Produce an effective oral presentation.
10. Produce effective written communications.
11. Integrate a variety of visual techniques to enhance the communication of ideas and solutions.
12. Solve a built environment sustainability problem in a multidisciplinary team.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12
DCP 3200				I, R		I, R			I, R	I, R		
DCP 3210	I		I	I, R	I, R	I, R	I, R		I, R		I, R	
DCP 3220	R		R	R	R	R	R	I, R	R	R	R	I, R, A
DCP 4290	A	A	A	A	A	A	A	A	A	A	A	
DCP 4910	A	A	A	A	A	A	A	A	A	A	A	
DCP 4941	R		R	R	R	R	R	R	R		R	
DCP 4942	R		R	R					R			
Approved Electives[1]		R	R									
Ecology for the Built Environment (one course)[1]		I, R										
Energy and/or Climate Change (one course)[1]		I, R										
Ethics and Environmental Justice (one course)[1]		I, R										
Resource Economics (one course)[1]		I, R										

[1] Student chooses from courses listed in semesters 5-7 of the major's semester plan.

Assessment Types

- Capstone evaluation
- Final project evaluation

Sustainability and the Built Environment Minor

The sustainability and the built environment minor introduces the challenges of planning, design, and construction of human structures and settlements. Courses provide an overview of environmental and cultural issues as they apply to design, planning sustainable applications and solutions.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Sustainability and the Built Environment Programs**

This minor is open to all students.

Field trips to broaden and expand students' educational experiences through study of planning, design, construction and sustainability projects *are required and are paid for by the student*.

Required Courses

Code	Title	Credits
ARC 1000	Architecture and Humanity	3
or BCN 1582	International Sustainable Development	
DCP 3210	Sustainable Solutions for the Built Environment	3
DCP 3220	Social and Cultural Sustainability and the Built Environment	3
LAA 2330	Site Analysis	3
Approved elective		3
Total Credits		15

Approved Electives

Code	Title	Credits
ARC 1000	Architecture and Humanity [1]	3
or BCN 1582	International Sustainable Development	
ARC 3880	Sustainable Architecture	3
ARC 4882	Vernacular Architecture and Sustainability	3
IDS 2154	Facets of Sustainability	3
LAA 4260	Site Designed Green Roofs	3
URP 4000	Preview of Urban and Regional Planning	3

[1] If not previously taken as a required course.

Related Sustainability and the Built Environment Programs

- Bachelor of Science in Sustainability and the Built Environment (p. 327)

Urban and Regional Planning Minor

Society's demands on the natural environment continue to increase as communities grow to meet population demands. Planning addresses the interface between the social, environmental and economic dimensions of communities and regions. Never before has the need to shape visions and guide community outcomes been greater.

The urban and regional planning minor introduces the challenging and vital aspects of creating, improving, and sustaining communities and regions.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **Credits:** 15 | Completed with minimum grades of C+, with the exception of URP 4942, which is graded S/U

Application should be made early so that guidance can be given for course selection and special studies parameters. Students must have a C+ GPA for admission to the minor and they must maintain a C+ GPA in all coursework for the minor. The only S/U course accepted is URP 4942.

The minor does not provide professional certification.

It is each student's responsibility to declare the minor through their major degree department or college and to obtain the required signatures from their department and URP.

Required Courses

Code	Title	Credits
URP 3001	Cities of the World	3
URP 4000	Preview of Urban and Regional Planning	3
Approved electives		9
Total Credits		15

Approved Electives

Code	Title	Credits
DCP 4000	Overview of Historic Preservation	3
URP 4273	Survey of Planning Information Systems	3

URP 4640	Sustainable Urbanism in Europe	3
URP 4740	Housing and Urban Development	3
URP 4882	Defensible Space and CPTED in Urban Design	3
URP 4905	Special Studies	3
URP 4942	Community Service	3

Study Abroad/Off-Campus Studies

Students need approval before signing up for study abroad or off-campus studies for inclusion in the URP minor. Credits will not be accepted after a student has started study abroad or off-campus studies. Eligible programs should be offered by UF's International Center or the College of Design, Construction and Planning. URP's undergraduate coordinator must determine eligibility of study abroad or off-campus coursework prior to taking the class. Accepted credits may vary from three to six, depending on the intensity and appropriateness of the selected program.

Education, College of

Consistently ranked among the top 20 public education schools in the nation, the College of Education prepares students to serve and lead in a diverse field. The College offers pathways to professional teacher certification, promotes an understanding of learning systems, policies, and outcomes in traditional and non-traditional contexts, and prepares graduates for careers in the public, private, or nonprofit sectors.

Contact

G416 Norman Hall
P.O. Box 117042
University of Florida
Gainesville, FL 32611-7042
352.273.4376

Map (https://campusmap.ufl.edu/#/index/0103) More Info (http://www.education.ufl.edu) Email (student-help@coe.ufl.edu)

Established

1905

Accredited

The Florida Department of Education (DOE (http://www.fldoe.org)) and the Council for the Accreditation of Educator Preparation (CAEP (http://www.ncate.org))

Programs

Education Sciences, Unified Elementary/Special Education, Unified Early Childhood Education

Degrees

Bachelor of Arts (B.A.), Bachelor of Arts in Education (B.A.E.), Master of Education (M.Ed.)

Academic Advising

Advising for undergraduate admission, critical-tracking, bachelor's degree requirements and the university's general education information is available in the Office of Student Services, EduGator Central, 2-080 Norman Hall.
More Info (https://education.ufl.edu/student-services)

For scheduling or course registration information, please refer to the appropriate department listed in the schedule of courses.
More Info (http://www.registrar.ufl.edu/soc)

Students who are interested in graduate studies to prepare to teach at the secondary level should contact the Office of Student Services, EduGator Central, 2-080 Norman Hall or call 352.273.4376.
More Info (https://education.ufl.edu/student-services)

College Scholarships

The College of Education awards scholarships to graduate and undergraduate students through an annual selection process. Eligibility for individual awards is determined by the college based on a student's fall-term classification.
More Info (http://education.ufl.edu/student-services/scholarships)

The Florida Department of Education also provides scholarships and loans for juniors and seniors in education.
More Info (http://www.floridastudentfinancialaid.org/osfahomepg.htm)

The federal Teacher Education Assistance for College and Higher Education Grant (TEACH Grant) is available to students enrolled in programs leading to professional certification in critical shortage subjects.
More Info (https://studentaid.ed.gov/sa/types/grants-scholarships/teach)

Information about the Florida Fund for Minority Teachers Scholarship is available online at ffmt.org.
More Info (http://www.ffmt.org)

Higher Education Act (1998)

The U.S. Department of Education's Higher Education Act addresses accountability requirements for teacher preparation programs. The act mandates that teacher preparation programs publish annually pertinent program information including but not limited to the following:

- Program accreditation
- Pass rates of graduates on state teacher certification assessments
- Programs that have been designated as low performing by the state

Accordingly, information about the state- and CAEP-accredited teacher preparation programs at UF is available online, and in print upon request.
More Info (http://education.ufl.edu/about-the-college)

Helpful Links

- College Website (https://education.ufl.edu)
- Computer Requirement (https://it.ufl.edu/policies/student-computing-requirements)

- Dean's List (p. 1385)
- Student Organizations (https://education.ufl.edu/student-services/student-involvement)

Academic Policies

Admission Requirements

Freshman applicants will be admitted to the College of Education when they declare a major in education sciences.

Students who wish to change their major to education sciences are required to have a 2.3 GPA for freshmen and 2.5 GPA for sophomores and above.

ProTeach elementary/special education or early childhood education students have an additional requirement of a 21 ACT or 1010 SAT Reading plus Math total (minimum 440 on each subtest). ProTeach students remain in a pre-education status, as long as they meet the critical-tracking standards set by the college and UF, until formally admitted to ProTeach. ProTeach students must be on track at the 60-credit level to continue in the elementary/special education or early childhood education major and to be considered competitive for admission to the three-year teacher preparation program.

Students who wish to change their major to a ProTeach major are required to have a 21 ACT or 1010 SAT Reading plus Math total (minimum 440 on each subtest) along with a 2.3 GPA for freshmen and a 2.6 GPA for sophomores and above.

Transfer Admission Requirements

Education sciences transfer applicants must meet the following requirements for admission:

- 2.5 cumulative GPA
- Completing the common course prerequisite, EDF1005 Introduction to the Teaching Profession, as established by the state of Florida's Articulation Coordinating Committee. The common course prerequisite must be completed with a minimum grade of C.

ProTeach majors in the College of Education are limited access programs. Transfer applicants must meet the following requirements for admission consideration on a space-available basis:

- 2.6 cumulative GPA; 3.0 upper-division GPA
- 21 ACT or 1010 SAT Reading plus Math total (minimum 440 on each subtest)
- Passing scores on all sections of the general knowledge portion of the Florida Teacher Certification Exam (http://fl.nesinc.com) (FTCE)
- Completing the university's writing (24,000 words) requirement
- Completing the common course prerequisite, EDF1005 Introduction to the Teaching Profession, as established by the state of Florida's Articulation Coordinating Committee. The common course prerequisites must be completed with a minimum grade of B.
- A course in human growth and development is a college requirement.

State college transfer students must document award of the A.A; state university transfer students are strongly encouraged to earn the AA. Other transfer students are evaluated individually upon application for admission. No change of major will be approved for transfer students admitted to another college at UF.

Critical-Tracking Program

All undergraduates are monitored for progress toward the bachelor's degree by the critical-tracking program. Students who fall below the tracking requirements at any stage must see an academic advisor for approval to continue in the major.

Students must make satisfactory academic progress to continue to enroll in the College of Education.

Minimum requirements for education sciences include

- Education core prerequisites completed with no grade below C and a 3.0 GPA; one repeat allowed:

Code	Title	Credits
EDF 1005	Introduction to Education	3
EDF 2085	Teaching Diverse Populations	3
EME 2040	Introduction to Educational Technology	3
Total Credits		9

- Completion of the common course prerequisite, EDF1005 Introduction to the Teaching Profession, as established by the State of Florida Articulation Coordinating Committee; the common course prerequisite must be completed with a minimum grade of C.

ProTeach is a limited-access major with competitive admission. Due to space limitations, meeting minimum admission requirements does not guarantee selection for admission. Minimum requirements for ProTeach admission for UF students and transfer students at the completion of 60 semester credits:

- Complete the university's writing (24,000 words) requirement
- Complete all General Education requirements
- FTCE General Knowledge Requirement. All students must pass all sections of the general knowledge portion of the Florida Teacher Certification Examination (http://fl.nesinc.com) (FTCE) before ProTeach admission at the junior level.
- Education core prerequisites completed with no grade below C and a 3.0 GPA; one repeat allowed:

Code	Title	Credits
EDF 1005	Introduction to Education	3
EDF 2085	Teaching Diverse Populations	3
EME 2040	Introduction to Educational Technology	3
Total Credits		9

- Completion of the common course prerequisite, EDF1005 Introduction to the Teaching Profession, as established by the State of Florida Articulation Coordinating Committee; the common course prerequisite must be completed with a minimum grades of B.
- Cumulative UF and transfer GPA of 2.6 and an upper-division GPA of 3.0

The college admissions committee will consider an applicant's entire record, including educational objectives, quality of courses completed and test data.

College Requirements

Career Placement

The Career Connections Center offers a Careers in Education recruitment event annually (usually in April) where representatives from school districts in Florida and several other states meet with students who

are completing teacher education programs and others interested in teaching.
More Info (https://career.ufl.edu)

Criminal Background Check

Classroom field experience is a vital component to any teacher preparation program. To have access to classrooms, students in a ProTeach program or UFTeach minor must submit to a Level 2 background screening. Individuals who are not cleared will not be permitted to continue in or graduate from a teacher preparation program. After clearance, it is the student's responsibility to report immediately any new criminal charges to the university's certification officer in G416 Norman Hall.

Dean's List (p. 1385)

Financial Responsibility

Students are responsible for all costs associated with the criminal background check, LiveText subscription, transportation to and from field placements and relevant examinations required for the program.

Overseas Study

Students are encouraged to complete any overseas studies before reaching junior status or in a summer term.

Program Plan

During the first term of enrollment in the upper-division ProTeach program, the student will sign a planned program of courses for the degree. Education sciences students must submit a plan that includes an approved specialization or general studies track before the end of the junior year. The program coordinator must approve all programs. Each student is responsible for registering for the appropriate courses and fulfilling all requirements for the degree, including test requirements.

Satisfactory Progress

Students in undergraduate ProTeach programs are expected to maintain a minimum junior/senior-level 3.0 GPA. Education sciences majors must maintain a 2.5 GPA. Academic progress is reviewed each semester. If requirements are not met, the student must be approved for continuation by the program coordinator before further registration. Students are required to earn a minimum grade of C for all major courses for award of the bachelor's degree.

Probation

The department and the college monitor students for academic progress. Students with unsatisfactory academic progress may be placed on probation. College probation may be removed if it is determined that satisfactory progress has been demonstrated.

Dismissal

If the department or the college determines that a student has not met probationary terms or is not progressing academically, the student may be prohibited from continuing in the College of Education. Students on probation, as well as students who are unable to meet degree requirements, are encouraged to investigate alternatives in other areas of study.

Students dismissed by the university may not register for courses. Courses taken at other institutions under these conditions will not count toward a UF degree.

Student Responsibility

Students are expected to review the information in the undergraduate catalog as a guide to planning their academic careers at UF. Failure to read, understand and follow the guidelines may cause significant delays in academic progress. Clarification of college requirements is available in the Office of Student Services, EduGator Central, G416 Norman Hall.

Student Teaching Assignment

Student teaching assignments are fulfilled at various sites in Florida, in accordance with program objectives and the student's professional goals. Department approval is required for placements outside Alachua County. In addition to regular tuition expenses, students are responsible for transportation to and/or housing in the community where student teaching is to occur. Fees imposed by school districts relating to requirements for personnel screening (e.g., fingerprinting, background checks and substance abuse testing) are also the student's responsibility.

S/U Option

The S/U option may be used for elective courses only. It does not apply to the university's writing requirement courses or to general education course requirements. The deadline for declaring the S/U option is published in the academic calendars in this catalog.

Transient Student Status

With approval of the College of Education, students may take a limited number of credits at another accredited institution. Before registration as a transient student at another institution, the student must complete a transient student form and obtain approval from the college and university. No transient courses will be permitted during the last 30 credits of enrollment.
More Info (https://www.floridashines.org/succeed-in-college/take-a-course-at-another-school)

Undergraduate Registration for Graduate Courses

With department approval, an undergraduate student with senior standing may enroll in 5000/6000-level courses. After a student has been admitted to the Graduate School, up to 15 credits of graduate-level courses with grades of A, A-, B+ or B may be applied toward a graduate degree at the university, provided the credit was not used toward an undergraduate degree.

Degree Requirements

Students who complete an approved undergraduate program in the College of Education are awarded the Bachelor of Arts (B.A.) for the education sciences major or the Bachelor of Arts in Education (B.A.E.) for a ProTeach major.

Grades below C will not fulfill requirements for major requirements or the university's general education areas.

Before program completion, ProTeach students must demonstrate satisfactory performance on the Florida Educator Accomplished Practices. Students in unified early childhood education are required to provide proof of completion of up-to-date CPR and first aid training. All prospective teachers are encouraged to do the same.

ProTeach students are required to complete an additional year of study in a master's degree or postbaccalaureate program to receive a statement on the transcript verifying completion of a Florida Department

of Education (DOE) and Council for Accreditation of Educator Preparation (CAEP) approved program.

All students in the ProTeach unified elementary/special education and early childhood program must provide evidence of a passing score on all pertinent sections of the Florida Teacher Certification Examination (http://fl.nesinc.com) (FTCE) before graduation from the B.A.E. program and the M.Ed. or postbaccalaureate program.

More Info (http://fl.nesinc.com)

Residence

The last 30 semester credits applied toward a degree must be completed in residence at UF in the College of Education.

Graduating with Honors (p. 1387)

Programs

MAJORS

- Education Sciences
- Education Sciences
- Education | Unified Early Childhood Education Pro-Teach | Pre-K-Grade 3
- Education | Unified Elementary/Special Education ProTeach | Grades K-6

MINORS

- Disabilities in Society Minor
- Educational Studies Minor
- Florida Teaching Minor
- UFTeach | Mathematics or Science Minor

ProTeach: Preparation of Professional Teachers

The College of Education prepares professional teachers in unified elementary/special education, unified early childhood education and the various areas of secondary education.

ProTeach is a rigorous five-year program designed to culminate in both a bachelor's and a master's degree.

Students engage in early observation, supervised practice and a concluding internship in the public schools, as well as campus-based clinical experiences in microteaching, simulation and other controlled situations.

ProTeach students in unified elementary/special education and unified early childhood education receive a Bachelor of Arts in Education upon successful completion of the first phase of the teacher education program, including a prescribed set of courses and experiences.

An additional year beyond the bachelor's degree is required for completion of the second phase of the teacher education programs.

Secondary Teaching

Students who wish to teach at the high school level complete a bachelor's degree in an appropriate content discipline while pursuing a minor in Florida Teaching or UFTeach, or before pursuing a graduate certificate in secondary teaching in the College of Education. The approved subject areas of study for a graduate certificate in secondary teaching include:

- English (recommended major in English);
- science (recommended major in biology, botany, chemistry, entomology, microbiology, physics, wildlife ecology or zoology); and
- social science (recommended major in anthropology, economics, geography, history, political science, psychology or sociology)
- mathematics (recommended major in mathematics)

Cooperating College Teacher Education Programs

In collaboration with the College of Education our cooperating colleges offer four-year teacher preparation programs in agriculture, art and music. Please contact the individual colleges for additional information:

- Agricultural Education and Communication (6-12), College of Agricultural and Life Sciences, 305 ROL
- Art Education (K-12), College of the Arts, 302 FAC
- Music Education (K-12), College of the Arts, 130 MUB

Program Planning

Program changes related to teacher certification requirements are possible. The curriculum of a state-approved teacher preparation program is subject to revision to accommodate legislative or Department of Education mandates. New rules may affect required courses in all teacher preparation programs.

Disabilities in Society Minor

The disabilities in society minor provides opportunities for undergraduates in all colleges to enhance their knowledge of disabilities and to recognize the impact disabilities have on the lives of people who experience them and on the people with whom they live and interact.

About this Program

- **College:** Education (p. 341)
- **Credits:** 15 minimum | Completed with minimum grades of C
- **Contact:** Email (studenthelp@coe.ufl.edu) | G416 Norman Hall (https://campusmap.ufl.edu/#/index/0101) | 352.273.4376

This minor facilitates understanding of disabilities and disability-related issues that are applicable in a variety of settings. Focus is on understanding types of disabilities, how disabilities are perceived in society, the ways people with disabilities are included in recreational, leisure, employment, educational and other community activities, and the legal aspects of disability policies.

Prerequisites

- Apply for the minor after earning 45 credits and before earning 100 credits.
- Minimum 2.0 GPA is required and transfer credits are not accepted. All courses must be taken at UF.
- Obtain college approval on the application for minor (http://www.registrar.ufl.edu/pdf/minorapp.pdf) before submitting the form to G-416 Norman Hall (http://campusmap.ufl.edu/?loc=0101).
- EEX 2000 or EEX 3093 are prerequisites for the online courses.

Required Courses

Code	Title	Credits
EEX 2000	Impact of Disabilities: Home, Community and Workplace	3
EEX 3093	Exceptional People in School and Society	3
EEX 3097	Social Perspectives on Disability	3
EEX 4280	Disabilities in Community and Employment	3
EEX 4520	Disabilities: Legal Aspects and Policies	3
Total Credits		15

Education Sciences

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 347) | Educational Psychology and Research (p. 351) | Educational Technology (p. 355) | General Studies (p. 358) | Schools, Society and Policy (p. 362)
- **Credits for Degree:** 120

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210
- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Related Teaching Programs

- Bachelor of Arts in Education and Master of Education, Unified Early Childhood Education ProTeach, Pre-K - Grade 3 (http://catalog.ufl.edu/UGRD/colleges-schools/UGEDU/EYC_BAE)
- Bachelor of Arts in Education and Master of Education, Unified Elementary/Special Education ProTeach, Grades K - 6 (p. 391)
- Bachelor of Arts in Education Sciences, UF Online (p. 366)
- Florida Teaching minor (p. 395)
- UFTeach Mathematics or Science minor (p. 396)

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
2. Apply foundational ideas and best practices to understand problems of practice and generate viable solutions in formal and informal education and training settings.

Critical Thinking

3. Enact goals for professional growth, ethical practices, and continuous improvement.

Communication

4. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences | Disabilities in Society

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 347) | Educational Psychology and Research (p. 351) | Educational Technology (p. 355) | General Studies (p. 358) | Schools, Society and Policy (p. 362)
- **Credits for Degree:** 120

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210 (GE-S)
- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 3 critical tracking courses (EDF 1005, EDF 2085, or EME 2040)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 core course (EDF 3210, EDF 3604, EDF 4430, EEX 2000, or EME 3813)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S). One of the two general education mathematics courses must be a pure math course. A course in statistics is recommended for this major but not required.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
State Core Gen Ed Mathematics; STA 2023 recommended		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Gen Ed Biological or Physical Science		3
Gen Ed Composition; Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
General Education Course with International Content [1]		3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Four		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
EEX 2000	Impact of Disabilities: Home, Community and Workplace (Gen Ed Social and Behavioral Sciences with Diversity)	3
Elective; Writing Requirement: 6,000 words		3

Electives		6
	Credits	15
Semester Five		
EDF 3604	Social Foundations of Education (Gen Ed Social and Behavioral Sciences)	3
EDG 4930	Special Topics (Critical Issues & Research in Education Colloquium)	1
EEX 3093	Exceptional People in School and Society (Gen Ed Social and Behavioral Sciences with Diversity)	3
Electives		9
	Credits	16
Semester Six		
EEX 3097	Social Perspectives on Disability	3
EEX 4520	Disabilities: Legal Aspects and Policies	3
EME 3813	Technology-Enhanced Learning Environments	3
Experiential Learning		3
Elective		3
	Credits	15
Semester Seven		
EDF 3210	Educational Psychology (Gen Ed Social and Behavioral Sciences)	3
EDG 4930	Special Topics (Senior Seminar)	1
EEX 4810	Seminar on Disability	3
Electives		9
	Credits	16
Semester Eight		
EDF 4430	Measurement and Evaluation in Education	3
EDG 4930	Special Topics (Senior Seminar)	1
EEX 4280	Disabilities in Community and Employment	3
Electives		6
	Credits	13
	Total Credits	120

[1] Gen Ed Social and Behavioral Sciences with International; Gen Ed Humanities with International; Gen Ed Biological or Physical Sciences with International

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
2. Apply foundational ideas and best practices to understand problems of practice and generate viable solutions in formal and informal education and training settings.

Critical Thinking

1. Enact goals for professional growth, ethical practices, and continuous improvement.

Communication

1. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences | Educational Psychology and Research

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 347) | Educational Psychology and Research (p. 351) | Educational Technology (p. 355) | General Studies (p. 358) | Schools, Society and Policy (p. 362)
- **Credits for Degree:** 120

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210 (GE-S)
- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 3 critical tracking courses (EDF 1005, EDF 2085, or EME 2040)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

SEMESTER 5

- Complete 1 core course (EDF 3210, EDF 3604, EDF 4430, EEX 2000, or EME 3813)
- 2.33 GPA required for all critical tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S). One of the two general education mathematics courses must be a pure math course. A course in statistics is recommended for this major but not required.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
State Core Gen Ed Mathematics; STA 2023 recommended		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Gen Ed Biological or Physical Science		3
Gen Ed Composition; Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
General Education Course with International Content [1]		3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Four		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
EDF 3110	Human Growth and Development (Gen Ed Social and Behavioral Sciences)	3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Five		
EDF 3210	Educational Psychology (Gen Ed Social and Behavioral Sciences)	3
EEX 2000	Impact of Disabilities: Home, Community and Workplace (Gen Ed Social and Behavioral Sciences with Diversity)	3
Critical Issues & Research in Education Colloquium		1
Electives		9
	Credits	16
Semester Six		
EDF 4140	Cognition in Education	3
EDF 4430	Measurement and Evaluation in Education	3
EDF 3423	Educational Research Design	3

Experiential Learning		3
Elective		3
	Credits	15
Semester Seven		
EDF 3604	Social Foundations of Education (Gen Ed Social and Behavioral Sciences)	3
EDF 4440	Program Evaluation in Educational Settings	3
Senior Seminar		1
Electives		9
	Credits	16
Semester Eight		
EDF 4470	Survey Research Methods in Education	3
EME 3813	Technology-Enhanced Learning Environments	3
Senior Seminar		1
Electives		6
	Credits	13
	Total Credits	120

[1] Gen Ed Social and Behavioral Sciences with International; Gen Ed Humanities with International; Gen Ed Biological or Physical Sciences with International

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
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1. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
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EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R

EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences | Educational Technology

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 347) | Educational Psychology and Research (p. 351) | Educational Technology (p. 355) | General Studies (p. 358) | Schools, Society and Policy (p. 362)
- **Credits for Degree:** 120

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

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Critical Tracking Courses | 3 courses total

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Core Courses | 5 courses total

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- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

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Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Critical Tracking

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Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 3 critical tracking courses (EDF 1005, EDF 2085, or EME 2040)
- 2.33 GPA required for all critical tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 of 3 critical tracking courses
- 2.33 GPA required for all critical tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 of 3 critical tracking courses
- 2.33 GPA required for all critical tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 core course (EDF 3210, EDF 3604, EDF 4430, EEX 2000, or EME 3813)
- 2.33 GPA required for all critical tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C,

H or S). One of the two general education mathematics courses must be a pure math course. A course in statistics is recommended for this major but not required.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

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State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
State Core Gen Ed Mathematics; STA 2023 recommended		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Gen Ed Biological or Physical Science		3
Gen Ed Composition; Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
General Education Course with International Content [1]		3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Four		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
EME 3813	Technology-Enhanced Learning Environments	3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Five		
EEX 2000	Impact of Disabilities: Home, Community and Workplace (Gen Ed Social and Behavioral Sciences with Diversity)	3
EME 3319	Design and Development of Educational Multimedia	3
Critical Issues & Research in Education Colloquium		1
Electives		9
	Credits	16
Semester Six		
EDF 3210	Educational Psychology (Gen Ed Social and Behavioral Sciences)	3
EME 3044	Issues and Trends in Educational Technology	3
General Studies or Specialization Course		3
Experiential Learning		3
Elective		3
	Credits	15
Semester Seven		
EDF 3604	Social Foundations of Education	3
EME 4673	Introduction to Instructional Design	3
Senior Seminar		1
Electives		9
	Credits	16
Semester Eight		
EDF 4430	Measurement and Evaluation in Education	3
EME 4010	Distance Education Research and Practice	3
EME 4320	Instructional Development for Teaching and Learning	3
Senior Seminar		1

Elective		3
	Credits	13
	Total Credits	120

[1] Gen Ed Social and Behavioral Sciences with International; Gen Ed Humanities with International; Gen Ed Biological or Physical Sciences with International

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
2. Apply foundational ideas and best practices to understand problems of practice and generate viable solutions in formal and informal education and training settings.

Critical Thinking

1. Enact goals for professional growth, ethical practices, and continuous improvement.

Communication

1. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences | General Studies

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 347) | Educational Psychology and Research (p. 351) | Educational Technology (p. 355) | General Studies (p. 358) | Schools, Society and Policy (p. 362)
- **Credits for Degree:** 120

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210 (GE-S)
- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 3 critical tracking courses (EDF 1005, EDF 2085, or EME 2040)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 core course (EDF 3210, EDF 3604, EDF 4430, EEX 2000, or EME 3813)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S). One of the two general education mathematics courses must be a pure math course. A course in statistics is recommended for this major but not required.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
State Core Gen Ed Mathematics; STA 2023 recommended		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Gen Ed Biological or Physical Science		3

Gen Ed Composition; Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
General Education Course with International Content [1]		3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Four		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
EEX 2000	Impact of Disabilities: Home, Community and Workplace (Gen Ed Social and Behavioral Sciences with Diversity)	3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Five		
EDF 3604	Social Foundations of Education (Gen Ed Social and Behavioral Sciences)	3
Education Course (3000-4000 Level)		3
Critical Issues & Research in Education Colloquium		1
Electives		9
	Credits	16
Semester Six		
EDF 3210	Educational Psychology (Gen Ed Social and Behavioral Sciences)	3
Education Courses (two, 3000-4000 Level)		6
Experiential Learning		3
Elective		3
	Credits	15
Semester Seven		
EDF 4430	Measurement and Evaluation in Education	3
Education Course (3000-4000 Level)		3
Senior Seminar		1
Electives		9
	Credits	16
Semester Eight		
EME 3813	Technology-Enhanced Learning Environments	3
Education Course (3000-4000 Level)		3
Senior Seminar		1
Electives		6
	Credits	13
	Total Credits	120

[1] Gen Ed Social and Behavioral Sciences with International; Gen Ed Humanities with International; Gen Ed Biological or Physical Sciences with International

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
2. Apply foundational ideas and best practices to understand problems of practice and generate viable solutions in formal and informal education and training settings.

Critical Thinking

1. Enact goals for professional growth, ethical practices, and continuous improvement.

Communication

1. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences | Schools, Society and Policy

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 347) | Educational Psychology and Research (p. 351) | Educational Technology (p. 355) | General Studies (p. 358) | Schools, Society and Policy (p. 362)
- **Credits for Degree:** 120

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210 (GE-S)
- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 3 critical tracking courses (EDF 1005, EDF 2085, or EME 2040)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 core course (EDF 3210, EDF 3604, EDF 4430, EEX 2000, or EME 3813)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S). One of the two general education mathematics courses must be a pure math course. A course in statistics is recommended for this major but not required.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
State Core Gen Ed Mathematics; STA 2023 recommended		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Gen Ed Biological or Physical Science		3
Gen Ed Composition; Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
General Education Course with International Content [1]		3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Four		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
EDF 3604	Social Foundations of Education	3
Elective; Writing Requirement: 6,000 words		3

Electives		6
	Credits	15
Semester Five		
EDF 3609	Sociological and Historical Foundations of Education	3
EEX 2000	Impact of Disabilities: Home, Community and Workplace	3
Critical Issues & Research in Education Colloquium		1
Electives		9
	Credits	16
Semester Six		
EDF 4430	Measurement and Evaluation in Education	3
EDF 3514	History of Education in the United States	3
EDF 3083	International and Comparative Education	3
Experiential Learning		3
Elective		3
	Credits	15
Semester Seven		
EDF 3210	Educational Psychology (Gen Ed Social and Behavioral Sciences)	3
EDF 3410	Introduction to Education Policy	3
Senior Seminar		1
Electives		9
	Credits	16
Semester Eight		
EDF 4930	Schools on Screen: American Education in Popular Media	3
EME 3813	Technology-Enhanced Learning Environments	3
Senior Seminar		1
Electives		6
	Credits	13
	Total Credits	120

[1] Gen Ed Social and Behavioral Sciences with International; Gen Ed Humanities with International; Gen Ed Biological or Physical Sciences with International

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
2. Apply foundational ideas and best practices to understand problems of practice and generate viable solutions in formal and informal education and training settings.

Critical Thinking

1. Enact goals for professional growth, ethical practices, and continuous improvement.

Communication

1. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 368) | Educational Psychology and Research (p. 372) | Educational Technology (p. 376) | General Studies (p. 380) | Schools, Society and Policy (p. 383)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Related Teaching Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210
- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Related Teaching Programs

- Bachelor of Arts in Education and Master of Education, Unified Early Childhood Education ProTeach, Pre-K - Grade 3 (http://catalog.ufl.edu/UGRD/colleges-schools/UGEDU/EYC_BAE)
- Bachelor of Arts in Education and Master of Education, Unified Elementary/Special Education ProTeach, Grades K - 6 (p. 391)
- Bachelor of Arts in Education Sciences (p. 345)
- Florida Teaching minor (p. 395)
- UFTeach Mathematics or Science minor (p. 396)

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
2. Apply foundational ideas and best practices to understand problems of practice and generate viable solutions in formal and informal education and training settings.

Critical Thinking

3. Enact goals for professional growth, ethical practices, and continuous improvement.

Communication

4. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences | Disabilities in Society

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 368) | Educational Psychology and Research (p. 372) | Educational Technology (p. 376) | General Studies (p. 380) | Schools, Society and Policy (p. 383)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Related Teaching Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210 (GE-S)
- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 3 critical tracking courses (EDF 1005, EDF 2085, or EME 2040)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 core course (EDF 3210, EDF 3604, EDF 4430, EEX 2000, or EME 3813)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S). One of the two general education mathematics courses must be a pure math course. A course in statistics is recommended for this major but not required.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
State Core Gen Ed Mathematics; STA 2023 recommended		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Gen Ed Biological or Physical Science		3
Gen Ed Composition; Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
General Education Course with International Content [1]		3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Four		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3

EEX 2000	Impact of Disabilities: Home, Community and Workplace (Gen Ed Social and Behavioral Sciences with Diversity)	3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Five		
EDF 3604	Social Foundations of Education (Gen Ed Social and Behavioral Sciences)	3
EDG 4930	Special Topics (Critical Issues & Research in Education Colloquium)	1
EEX 3093	Exceptional People in School and Society (Gen Ed Social and Behavioral Sciences with Diversity)	3
Electives		9
	Credits	16
Semester Six		
EEX 3097	Social Perspectives on Disability	3
EEX 4520	Disabilities: Legal Aspects and Policies	3
EME 3813	Technology-Enhanced Learning Environments	3
Experiential Learning		3
Elective		3
	Credits	15
Semester Seven		
EDF 3210	Educational Psychology (Gen Ed Social and Behavioral Sciences)	3
EDG 4930	Special Topics (Senior Seminar)	1
EEX 4810	Seminar on Disability	3
Electives		9
	Credits	16
Semester Eight		
EDF 4430	Measurement and Evaluation in Education	3
EDG 4930	Special Topics (Senior Seminar)	1
EEX 4280	Disabilities in Community and Employment	3
Electives		6
	Credits	13
	Total Credits	120

[1] Gen Ed Social and Behavioral Sciences with International; Gen Ed Humanities with International; Gen Ed Biological or Physical Sciences with International

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
2. Apply foundational ideas and best practices to understand problems of practice and generate viable solutions in formal and informal education and training settings.

Critical Thinking

1. Enact goals for professional growth, ethical practices, and continuous improvement.

Communication

1. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences | Educational Psychology and Research

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 368) | Educational Psychology and Research (p. 372) | Educational Technology (p. 376) | General Studies (p. 380) | Schools, Society and Policy (p. 383)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Related Teaching Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210 (GE-S)
- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 3 critical tracking courses (EDF 1005, EDF 2085, or EME 2040)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

SEMESTER 5

- Complete 1 core course (EDF 3210, EDF 3604, EDF 4430, EEX 2000, or EME 3813)
- 2.33 GPA required for all critical tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S). One of the two general education mathematics courses must be a pure math course. A course in statistics is recommended for this major but not required.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
State Core Gen Ed Mathematics; STA 2023 recommended		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Gen Ed Biological or Physical Science		3
Gen Ed Composition; Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
General Education Course with International Content [1]		3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Four		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
EDF 3110	Human Growth and Development (Gen Ed Social and Behavioral Sciences)	3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Five		
EDF 3210	Educational Psychology (Gen Ed Social and Behavioral Sciences)	3
EEX 2000	Impact of Disabilities: Home, Community and Workplace (Gen Ed Social and Behavioral Sciences with Diversity)	3
Critical Issues & Research in Education Colloquium		1

Electives		9
	Credits	16
Semester Six		
EDF 4140	Cognition in Education	3
EDF 4430	Measurement and Evaluation in Education	3
EDF 3423	Educational Research Design	3
Experiential Learning		3
Elective		3
	Credits	15
Semester Seven		
EDF 3604	Social Foundations of Education (Gen Ed Social and Behavioral Sciences)	3
EDF 4440	Program Evaluation in Educational Settings	3
Senior Seminar		1
Electives		9
	Credits	16
Semester Eight		
EDF 4470	Survey Research Methods in Education	3
EME 3813	Technology-Enhanced Learning Environments	3
Senior Seminar		1
Electives		6
	Credits	13
	Total Credits	120

[1] Gen Ed Social and Behavioral Sciences with International; Gen Ed Humanities with International; Gen Ed Biological or Physical Sciences with International

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
2. Apply foundational ideas and best practices to understand problems of practice and generate viable solutions in formal and informal education and training settings.

Critical Thinking

1. Enact goals for professional growth, ethical practices, and continuous improvement.

Communication

1. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I

EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences | Educational Technology

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 368) | Educational Psychology and Research (p. 372) | Educational Technology (p. 376) | General Studies (p. 380) | Schools, Society and Policy (p. 383)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Related Teaching Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210 (GE-S)
- EDF 3604 (GE-S)
- EDF 4430

- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 3 critical tracking courses (EDF 1005, EDF 2085, or EME 2040)
- 2.33 GPA required for all critical tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 of 3 critical tracking courses
- 2.33 GPA required for all critical tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 of 3 critical tracking courses
- 2.33 GPA required for all critical tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 core course (EDF 3210, EDF 3604, EDF 4430, EEX 2000, or EME 3813)
- 2.33 GPA required for all critical tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S). One of the two general education mathematics courses must be a pure math course. A course in statistics is recommended for this major but not required.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
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State Core Gen Ed Mathematics; STA 2023 recommended		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Gen Ed Biological or Physical Science		3
Gen Ed Composition; Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
General Education Course with International Content [1]		3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Four		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
EME 3813	Technology-Enhanced Learning Environments	3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Five		
EEX 2000	Impact of Disabilities: Home, Community and Workplace (Gen Ed Social and Behavioral Sciences with Diversity)	3
EME 3319	Design and Development of Educational Multimedia	3
Critical Issues & Research in Education Colloquium		1
Electives		9
	Credits	16
Semester Six		
EDF 3210	Educational Psychology (Gen Ed Social and Behavioral Sciences)	3
EME 3044	Issues and Trends in Educational Technology	3
General Studies or Specialization Course		3
Experiential Learning		3
Elective		3
	Credits	15
Semester Seven		
EDF 3604	Social Foundations of Education	3
EME 4673	Introduction to Instructional Design	3

Senior Seminar		1
Electives		9
	Credits	16
Semester Eight		
EDF 4430	Measurement and Evaluation in Education	3
EME 4010	Distance Education Research and Practice	3
EME 4320	Instructional Development for Teaching and Learning	3
Senior Seminar		1
Elective		3
	Credits	13
	Total Credits	120

[1] Gen Ed Social and Behavioral Sciences with International; Gen Ed Humanities with International; Gen Ed Biological or Physical Sciences with International

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

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- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
2. Apply foundational ideas and best practices to understand problems of practice and generate viable solutions in formal and informal education and training settings.

Critical Thinking

1. Enact goals for professional growth, ethical practices, and continuous improvement.

Communication

1. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences | General Studies

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
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- **Specializations:** Disabilities in Society (p. 368) | Educational Psychology and Research (p. 372) | Educational Technology (p. 376) | General Studies (p. 380) | Schools, Society and Policy (p. 383)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Related Teaching Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210 (GE-S)
- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 3 critical tracking courses (EDF 1005, EDF 2085, or EME 2040)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 core course (EDF 3210, EDF 3604, EDF 4430, EEX 2000, or EME 3813)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S). One of the two general education mathematics courses must be a pure math course. A course in statistics is recommended for this major but not required.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

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Semester One		
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State Core Gen Ed Mathematics; STA 2023 recommended		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
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Gen Ed Biological or Physical Science		3
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State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
General Education Course with International Content [1]		3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Four		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
EEX 2000	Impact of Disabilities: Home, Community and Workplace (Gen Ed Social and Behavioral Sciences with Diversity)	3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Five		
EDF 3604	Social Foundations of Education (Gen Ed Social and Behavioral Sciences)	3
Education Course (3000-4000 Level)		3
Critical Issues & Research in Education Colloquium		1
Electives		9
	Credits	16
Semester Six		
EDF 3210	Educational Psychology (Gen Ed Social and Behavioral Sciences)	3
Education Courses (two, 3000-4000 Level)		6
Experiential Learning		3
Elective		3
	Credits	15
Semester Seven		
EDF 4430	Measurement and Evaluation in Education	3
Education Course (3000-4000 Level)		3
Senior Seminar		1
Electives		9
	Credits	16
Semester Eight		
EME 3813	Technology-Enhanced Learning Environments	3
Education Course (3000-4000 Level)		3
Senior Seminar		1
Electives		6
	Credits	13
	Total Credits	120

[1] Gen Ed Social and Behavioral Sciences with International; Gen Ed Humanities with International; Gen Ed Biological or Physical Sciences with International

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

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1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.
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1. Enact goals for professional growth, ethical practices, and continuous improvement.

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1. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education Sciences | Schools, Society and Policy

The education sciences major promotes an understanding of education and learning systems, policy, and outcomes in traditional and non-traditional contexts. This degree prepares individuals for a variety of career paths and for graduate school.

About this Program

- **College:** Education (p. 341)
- **Degree:** Bachelor of Arts
- **Specializations:** Disabilities in Society (p. 368) | Educational Psychology and Research (p. 372) | Educational Technology (p. 376) | General Studies (p. 380) | Schools, Society and Policy (p. 383)
- **Credits for Degree:** 120

- **Contact:** 1.855.99GATOR
- **Related Teaching Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major is not a teacher or educator preparation program, rather an exploration of the educational and psychological foundations, research and policy as applied to instruction, learning, and professional development in school and community settings. Core courses serve as an introduction to the many fields of professional practice and research. Students may develop a General Studies curriculum or may choose a specialization in Disabilities in Society, Educational Psychology and Research, Educational Technology, or Schools, Society and Policy.

Graduates of the major would be prepared for a career in a government, non-profit, or education setting and for graduate studies. It would be appropriate for students interested in leading discussions about schools and education, informing policy, optimizing e-learning, advocating for accessibility, and supporting the mission of institutions of learning.

Coursework for the Major

Students must complete 30 credits of coursework for the education sciences major to include a 15-credit core and a 15-credit specialization. The specialization must be declared no later than semester 6. Each specialization's coursework requirements are specified after the Critical Tracking section. Students must earn a minimum grade of C in a course for it to be applied to the major. A minimum 15 credits of major-related courses must be completed at the University of Florida.

All education sciences majors are required to attend colloquia, contribute to seminars, and participate in experiential learning.

Critical Tracking Courses | 3 courses total

- EDF 1005
- EDF 2085 (GE-S,D)
- EME 2040

Core Courses | 5 courses total

- EDF 3210 (GE-S)
- EDF 3604 (GE-S)
- EDF 4430
- EEX 2000 (GE-S,D)
- EME 3813

Specializations

Disabilities in Society

Advocating for accessibility and inclusion

Educational Psychology and Research

Research methods for understanding cognitive development and learning theory

Educational Technology

Preparing for a career in instructional design and e-learning

General Studies

Engaging in interdisciplinary and cross-disciplinary studies

Schools, Society and Policy

Searching for solutions to enduring problems in education

Critical Issues & Research in Education (EDG 4930 - 1 credit; S/U)

A colloquium series that explores current education issues and research. Guest lectures from faculty.

Senior Seminar (EDG 4930 - 2 semesters x 1 credit each; S/U)

Seniors present findings/summary of experiential learning.

Experiential Learning (EDG 4910 or EDG 4905 - choose one)

Research, Internship, Service Learning, Study Abroad

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 3 critical tracking courses (EDF 1005, EDF 2085, or EME 2040)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 of 3 critical tracking courses
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 core course (EDF 3210, EDF 3604, EDF 4430, EEX 2000, or EME 3813)
- 2.33 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S). One of the two general education mathematics courses must be a pure math course. A course in statistics is recommended for this major but not required.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
State Core Gen Ed Mathematics; STA 2023 recommended		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Gen Ed Biological or Physical Science		3
Gen Ed Composition; Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15

Semester Three		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
General Education Course with International Content [1]		3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Four		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
EDF 3604	Social Foundations of Education	3
Elective; Writing Requirement: 6,000 words		3
Electives		6
	Credits	15
Semester Five		
EDF 3609	Sociological and Historical Foundations of Education	3
EEX 2000	Impact of Disabilities: Home, Community and Workplace	3
Critical Issues & Research in Education Colloquium		1
Electives		9
	Credits	16
Semester Six		
EDF 4430	Measurement and Evaluation in Education	3
EDF 3514	History of Education in the United States	3
EDF 3083	International and Comparative Education	3
Experiential Learning		3
Elective		3
	Credits	15
Semester Seven		
EDF 3210	Educational Psychology (Gen Ed Social and Behavioral Sciences)	3
EDF 3410	Introduction to Education Policy	3
Senior Seminar		1
Electives		9
	Credits	16
Semester Eight		
EDF 4930	Schools on Screen: American Education in Popular Media	3
EME 3813	Technology-Enhanced Learning Environments	3
Senior Seminar		1
Electives		6
	Credits	13
	Total Credits	120

[1] Gen Ed Social and Behavioral Sciences with International; Gen Ed Humanities with International; Gen Ed Biological or Physical Sciences with International

Academic Learning Compact

Across the country, graduates with education majors typically are prepared to teach in preschool through grade 12 settings. While many university students complete an education degree with teacher certification and begin teaching, others pursue graduate school or employment in fields where preparation in education is an asset. The BAES is appropriate for students interested in leading and supporting the design and implementation of learning environments, studying and informing education policy, optimizing e-learning, advocating for and developing accessible education options for citizens with disabilities, and supporting the learning and training missions of institutions in the modern economy.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain foundational ideas and best practices in educational practices and policies, educational psychology, human exceptionalities, educational statistics and measurement, and educational technologies.

2. Apply foundational ideas and best practices to understand problems of practice and generate viable solutions in formal and informal education and training settings.

Critical Thinking
1. Enact goals for professional growth, ethical practices, and continuous improvement.

Communication
1. Communicate effectively in all forms in a professional environment, adapting appropriately for exceptionality and diversity among individuals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3604	I	I		I
EDF 3210	I	I		I
EEX 2000	I	I		I
EDF 4430	I		I	I
EME 3813	I	I		I
EEX 4XXX	R	R	I	R
EDF 4440	R	R	I	R
EME 4010	R	R	I	R
EDF 3609	R	R	I	R
EDG 4930	R			
EDG 4910	R	R	R	A
EDG 4930	A	A	A	A

Assessment Types

- Final projects
- Experiential learning experiences

Education | Unified Early Childhood Education Pro-Teach | Pre-K-Grade 3

The Unified Early Childhood Education ProTeach program prepares students to teach at the preschool and pre-kindergarten levels through grade 3.

About this Program

- **College:** Education (p. 341)
- **Program:** Bachelor of Arts in Education and Master of Education
- **Credits for Degree:** 120 (B.A.E.) | 36 (M.Ed.)
- **Contact:** Email (studenthelp@coe.ufl.edu) | G416 Norman Hall (http://campusmap.ufl.edu/?loc=0101) | 352.273.4376
- **Additional Information**
- **Related Teaching Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The unified early childhood ProTeach program prepares students to teach at the preschool and pre-kindergarten level through third grade. The program unifies early childhood education and early childhood special education.

Students who successfully complete this five-year program will be recommended for certifications in both preschool education (birth - age 4) and pre-kindergarten/primary (age 3 - grade 3) with endorsements in pre-kindergarten disabilities and English for speakers of other languages (ESOL).

The professional choices for graduates include directing preschools and Head Start programs, teaching in the primary grades, and providing early intervention in home, community, and medical settings.

Fifth-Year Requirement

Students must complete the fifth year requirement as a graduate student earning a Master of Education or as a postbaccalaureate student.

Passing scores on appropriate portions of the Florida Teacher Certification Examination (FTCE) will be required before program completion.

Related Teaching Programs

- Bachelor of Arts in Education and Master of Education, Unified Elementary/Special Education ProTeach, Grades K - 6 (p. 391)
- Bachelor of Arts in Education Sciences (http://catalog.ufl.edu/UGRD/colleges-schools/UGEDU/EDS_BAE)
- Florida Teaching minor (p. 395)
- UFTeach Mathematics or Science minor (p. 396)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=131202&track=01) may be used for transfer students.

Semester 1

- Complete coursework with minimum grades of C
- 21 ACT with writing or 1010 SAT Reading plus Math (minimum 440 on each section)
- 2.0 UF GPA required

Semester 2

- Complete coursework with minimum grades of C
- Complete 1 of 3 critical-tracking courses: EDF 1005 or EDF 2085 or EME 2040
- 2.3 UF GPA required

Semester 3

- Complete coursework with minimum grades of C
- Complete 1 additional critical-tracking course
- 2.6 UF GPA required

Semester 4

- Complete coursework with minimum grades of C
- Complete all 3 critical-tracking courses with a 3.0 critical-tracking GPA
- 2.6 UF GPA required

Semester 5

- Document passing general knowledge test scores from the FTCE (see audit and/or advisor to determine which test to take)
- Complete all General Education requirements
- Complete the university writing requirement
- Students cannot register for courses in semesters 5-8 before ProTeach admission, which is competitive and in the fall semester only. Students should meet in February with the admissions coordinator in G416 Norman Hall to complete an application for fall admission.
- 3.0 upper-division GPA required semesters 5-8
- 2.6 UF GPA required

Model Semester Plan

For electives, students are encouraged to choose courses that will strengthen their knowledge of the content areas of literature, social sciences, natural sciences, and mathematics.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3

State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Select one:		3
EDF 3110	Human Growth and Development (Gen Ed Social and Behavioral Sciences)	
DEP 3053	Developmental Psychology (Gen Ed Social and Behavioral Sciences)	
Gen Ed Composition or literature		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and Diversity)	3
Gen Ed Biological or Physical Sciences		3
Elective (Gen Ed Diversity or International) or a foreign language		3
Elective (Writing Requirement: 6,000 words)		3
Elective		3
	Credits	15
Semester Four		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
Select one:		3
Gen Ed Biological or Physical Sciences		
Gen Ed Humanities		
Gen Ed Social and Behavioral Sciences		
Elective (Gen Ed International)		3
Elective (Writing Requirement: 6,000 words)		3
Elective		3
	Credits	15
Semester Five		
EDF 3122	The Young Child	3
EDF 3609	Sociological and Historical Foundations of Education	3
EEX 3012	Introduction to Special Education	3
EEX 4754	Family Focused Involvement in Early Childhood Special Education	3
LIN 3710	Language Acquisition	3
	Credits	15
Semester Six		
EEC 3421	Teaching Math and Science in Early Childhood	3
EEC 3941	Practicum in Early Childhood Education	3
EEX 3226	Assessment in Early Childhood Special Education	3
EEX 4790	Multicultural Issues in Early Childhood Special Education	3
RED 3309	Emergent Literacy and Beginning Reading Instruction	3
	Credits	15
Semester Seven		
EEC 4215	Early Childhood Science and Social Studies	3
EEC 4712	Social Competence in Early Childhood	3
EEX 4064	Educational Programming for Infants and Toddlers with Disabilities	3
EEX 4837	Practicum Early Child	3
EPD 4033	Child Youth Mult Disa	3
	Credits	15
Semester Eight		
EDF 3433 or EDF 4430	Introduction to Educational Measurement and Evaluation or Measurement and Evaluation in Education	3
EEX 3062	Early Childhood Special Education Curriculum	3
EEX 4905	Individual Study	3
EME 4401	Integrating Technology in the Elementary Curriculum	3

LAE 4604	Language Arts for Diverse Learners in Early Education	3
	Credits	15
	Total Credits	120

Passing score on all subtests of the FTCE subject area exam in preschool education (birth-age 4) required for completion of the bachelor's degree.

Certification

During the fifth year, students complete a dual certification and dual endorsement track, 36-credit master's degree program or a 27-credit postbaccalaureate program.

Program completion confers recommendation for:

- Preschool Education (birth-age 4) Certification
- Pre-K/Primary (age 3-grade 3) Certification
- ESOL Endorsement
- Pre-K Disabilities Endorsement

Academic Learning Compact

This degree is the first step of a two-step process that prepares students for certification to teach Preschool Education (birth - age 4) in the state of Florida. The second step requires completion of the Master of Education degree in prekindergarten education (age 3 - grade 3). The undergraduate program develops the foundation knowledge and skills for effective planning, teaching and evaluating young children's learning and development.

Before Graduating Students Must

- Pass the General Knowledge Test and the Preschool Education Subject Area Test of the Florida Teacher Certification Examination.
- Demonstrate mastery of effective teaching practices by meeting Florida Educator Accomplished Practices 1-6, as determined by multiple instructors across the program.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competency for children, birth to age 4, in child development, contemporary research in early childhood, cultural and linguistic diversity, strategies for engaging families, developmentally appropriate instructional practices, special services for children, screening and assessment, safety and mental and physical health.
2. Create, select and implement specific learning goals, appropriate teaching methods and instructional materials and evaluation strategies aligned with goals, using knowledge of children and developmentally appropriate practices.

Critical Thinking

3. Critically evaluate your own instructional effectiveness to plan future lessons and improve your teaching of all students over time.

Communication

4. Effectively communicate with students, including students whose home language is not standard English, as well as parents and other school personnel.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EDF 3122	I	I		
EDF 3433	R	I		
EEC 4215		R		
EEX 3012	I			I
EEX 3062		R	A	
EEX 3226	I	R		
EEX 4754	I	I	I	R
EEX 4790	R	R	R	R

EEX 4812	R	A	R	A
EME 4401		R		
LIN 3710	I	I		

Assessment Types

- UFLI project
- Pre-internship evaluation
- The Florida Teaching Certification (FTCE) General Knowledge and Preschool Education examination

Education | Unified Elementary/Special Education ProTeach | Grades K-6

The Unified Elementary/Special Education program includes professional methods courses, clinical experiences and a fifth year specialization in elementary or special education, in addition to the professional education curriculum.

About this Program

- **College:** Education (p. 341)
- **Program:** Bachelor of Arts in Education and Master of Education
- **Credits for Degree:** 120 (B.A.E.) | 36 (M.Ed.)
- **Contact:** Email (studenthelp@coe.ufl.edu) | G416 Norman Hall (http://campusmap.ufl.edu/?loc=0101) | 352.273.4376
- **Additional Information**
- **Related Teaching Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The professional education curriculum incorporates important topics in special education, classroom management, inclusive classroom settings, English for speakers of other languages (ESOL), reading and other related issues.

Graduates of the unified elementary/special education ProTeach program will be able to create and maintain supportive and productive classrooms for diverse student populations. These teachers also will be prepared to work collaboratively with school personnel, families, and members of the community to develop alternative ways to educate all students.

Fifth-Year Requirement

Students must complete the fifth year requirement as a graduate student earning a Master of Education or as a postbaccalaureate student.

Passing scores on appropriate portions of the Florida Teacher Certification Examination (FTCE) will be required before program completion.

Related Teaching Programs

- Bachelor of Arts in Education and Master of Education, Unified Early Childhood Education ProTeach, Pre-K - Grade 3 (http://catalog.ufl.edu/UGRD/colleges-schools/UGEDU/EYC_BAE)
- Bachelor of Arts in Education Sciences (http://catalog.ufl.edu/UGRD/colleges-schools/UGEDU/EDS_BAE)
- Florida Teaching minor (p. 395)
- UFTeach Mathematics or Science minor (p. 396)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=131001&track=01) may be used for transfer students.

Semester 1

- Complete coursework with minimum grades of C
- 21 ACT with writing or 1010 SAT Reading plus Math (minimum 440 on each section)
- 2.0 UF GPA required

Semester 2

- Complete coursework with minimum grades of C
- Complete 1 of 3 critical-tracking courses: EDF 1005 or EDF 2085 or EME 2040
- 2.3 UF GPA required

Semester 3

- Complete coursework with minimum grades of C
- Complete 1 additional critical-tracking course
- 2.6 UF GPA required

Semester 4

- Complete coursework with minimum grades of C
- Complete all 3 critical-tracking courses with a 3.0 critical-tracking GPA
- 2.6 UF GPA required

Semester 5

- Document passing general knowledge test scores from the FTCE series (see audit and/or advisor to determine which test to take)
- Complete all General Education requirements
- Complete the university writing requirement
- Students cannot register for courses in semesters 5-8 before ProTeach admission, which is competitive in fall and spring semesters only. Students should meet in February with the admissions coordinator in G416 Norman Hall to complete an application for fall admission or in September for spring admission.
- 3.0 upper-division GPA required semesters 5-8
- 2.6 UF GPA required

Model Semester Plan

For electives students are encouraged to choose courses that will strengthen their knowledge of the content areas of literature, social sciences, natural sciences, and mathematics.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
State Core Gen Ed Mathematics (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
EDF 1005	Introduction to Education (**Critical Tracking**)	3
Select one:		3
EDF 3110	Human Growth and Development (Gen Ed Social and Behavioral Sciences)	
DEP 3053	Developmental Psychology (Gen Ed Social and Behavioral Sciences)	
Gen Ed Composition; Writing Requirement: 6,000 words		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
EDF 2085	Teaching Diverse Populations (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and Diversity)	3
Gen Ed Biological or Physical Sciences		3
Elective (Gen Ed International or Diversity) or a foreign language		3
Elective (Writing Requirement: 6,000 words)		3

Elective		3
	Credits	15
Semester Four		
EME 2040	Introduction to Educational Technology (**Critical Tracking**)	3
Select one:		3
Gen Ed Biological or Physical Sciences		
Gen Ed Humanities		
Gen Ed Social and Behavioral Sciences		
Elective (Gen Ed International)		3
Elective (Writing Requirement: 6,000 words)		3
Elective		3
	Credits	15
Semester Five		
EDF 3115	Child Development for Inclusive Education	3
EEX 3070	Teachers and Learners in the Inclusive School	3
LAE 3005	Children's Literature	3
MAE 3312	Mathematics Content for Elementary Teachers	3
SDS 3430	Family and Community Involvement in Education	3
	Credits	15
Semester Six		
EDF 3514	History of Education in the United States (or other approved social science course)	3
EEX 3257	Core Teaching Strategies	3
EEX 3616	Core Classroom Management Strategies	3
LAE 4314	Language Arts for Diverse Learners	3
RED 3307	Teaching Reading in Primary Grades	3
	Credits	15
Semester Seven		
ARE 4314 or MUE 3210	Art Education for Elementary Schools or Music for the Elementary Child	2
EME 4401	Integrating Technology in the Elementary Curriculum	3
MAE 4310	Teaching Mathematics in the Inclusive Elementary School	3
RED 4324	Reading in the Intermediate Grades	3
SCE 4113L	Elementary Science Content	3
TSL 3520	ESOL Foundations: Language and Culture in Classrooms	3
	Credits	17
Semester Eight		
EDG 4930	Special Topics (Integrated Teaching in Elementary Education)	2
EEX 4905	Individual Study (Teaching Seminar)	2
SCE 4310	Elementary Science Methods for the Inclusive Classroom	3
SSE 4312	Social Studies for Diverse Learners	3
TSL 4100	ESOL Curriculum, Methods and Assessment	3
	Credits	13
	Total Credits	120

Passing score on all subtests of the FTCE subject area exam in elementary education (K-6) required for completion of the bachelor's degree.

Certification Options

During the fifth year, students may select from two certification tracks:

Dual-Certification Track

36-credit master's degree program or 30-credit postbaccalaureate program

- Confers recommendation for certifications in elementary (grades K-6) and exceptional student education (ESE K-12) with endorsements in ESOL and reading

Single-Certification Track

36-credit master's degree program or 21-credit postbaccalaureate program

- Confers recommendation for certification in elementary (grades K-6) with endorsements in ESOL and reading

Academic Learning Compact

This degree is the first step of a two-step process that prepares students for certification to teach grades K - 6 in the state of Florida. The second step requires completion of the Master of Education degree in elementary education or special education. The undergraduate program develops the foundation knowledge and skills for effective planning, teaching and evaluating pupil learning.

Before Graduating Students Must

- Pass the General Knowledge Test and the Elementary Education Subject Area Test of the Florida Teacher Certification Examination.
- Demonstrate mastery of effective teaching practices by meeting Florida Educator Accomplished Practices 1-6, as determined by multiple instructors across the program.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate subject matter competency for grades K - 6 in language arts, social science, mathematics, science, technology, physical education and health and the arts.
2. Create, select and implement: specific learning goals, appropriate teaching methods and instructional materials and evaluation strategies aligned with goals, using knowledge of subject matter, learners and classroom management.

Critical Thinking

3. Critically evaluate your own instructional effectiveness to plan future lessons and improve your teaching of all students over time.

Communication

4. Effectively communicate with students, including students whose home language is not standard English, as well as with parents and other school personnel.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
ARE 4314	I, R, A			
EDE 4942		A	A	A
EDF 3115		I	I	
EDF 3514 or EDF 3609	I, R, A			
EEX 3070		I	I	I
EEX 3257		R	R	
EEX 3616		R		R
EME 4401	I, R, A			
LAE 3005		R	R	
LAE 4314		R	R	
MAE 3312	I	R		
MAE 4310	R, A	R	R	
MUE 3210	I, R, A			
RED 3307	I, R, A	R	R	
RED 4324		R	R	
SCE 4310	R	R, A	R	
SDS 3440				R, A
SSE 4312	R	R	R	
TSL 3526	I, R, A			R

Assessment Types

- Pathwise observations
- Lesson study and family letter assignments
- Pre-internship evaluation
- The Florida Teacher Certification (FTCE) Elementary K6 examination

Educational Studies Minor

The educational studies minor provides an understanding of the purpose and function of education and the social and psychological forces that affect young people. The minor is not intended as a path to teacher certification.

About this Program

- **College:** Education (p. 341)
- **Credits:** 15 minimum | Completed with minimum grades of C
- **Contact:** Email (studenthelp@coe.ufl.edu) | G416 Norman Hall (http://campusmap.ufl.edu/?loc=0101) | 352.273.4376

Requirements

- Students must apply for the minor after earning 45 credits and before earning 100 credits.
- A 2.0 minimum GPA is required and all courses must be taken at UF.
- Students must obtain college approval on the application for minor (http://www.registrar.ufl.edu/pdf/minorapp.pdf) before submitting the form to G-416 Norman Hall (http://campusmap.ufl.edu/?loc=0101).

Required Courses

Code	Title	Credits
Select from at least four of the five sections:		15
Section 1		
EDF 3110	Human Growth and Development	
EDF 3135	The Adolescent	
EDF 3210	Educational Psychology	
Section 2		
EDF 3514	History of Education in the United States	
EDF 3604	Social Foundations of Education	
EDF 3609	Sociological and Historical Foundations of Education	
Section 3		
EEX 3012	Introduction to Special Education	
EEX 3093	Exceptional People in School and Society	
Section 4		
SDS 3340	Career and Life Span Planning	
SDS 3481	Alcohol and Drug Abuse	
SDS 3482	Stress and Anxiety Management	
SDS 4410	Interpersonal Communication Skills	
Section 5		
EDF 4430	Measurement and Evaluation in Education	
EME 4406	Integrating Technology into the Secondary Curriculum	
TSL 4324	ESOL Strategies for Content Area Teachers	
Total Credits		15

Florida Teaching Minor

The Florida teaching minor is an alternative certification program, specifically a Professional Training Option (PTO) meant to prepare students for temporary teacher certification in Florida by completing the professional education coursework necessary for certification.

About this Program

- **College:** Education (p. 341) offered jointly with Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Contact:** Email (studenthelp@coe.ufl.edu) | G416 Norman Hall (http://campusmap.ufl.edu/?loc=0101) | 352.273.4376
- **Additional Information**
- **Related Teaching Programs**

The minor requires completion of coursework in the professional preparation areas of human development and learning, assessment, classroom management, instructional strategies, reading competency and curriculum and special methods. Students will have extensive opportunities to integrate their teacher education coursework with actual classroom experience.

The minor is open to undergraduates with a major other than mathematics, science or education. Students with majors in mathematics or science should refer to the UFTeach minor.

Admission to this minor requires a cumulative 2.5 GPA. Students must make written application for admission to the minor in G416 Norman Hall after 45 credits and before earning 100 credits. For additional information, students can speak with an advisor in the College of Education Student Services office in G416 Norman Hall or refer to the College of Education.
More Info (http://education.ufl.edu/student-services)

Those pursuing the minor are encouraged to complete the Florida Teacher Certification Examination (FTCE) General Knowledge Test (recommended in sophomore/junior year), the FTCE Subject Area Exam (recommended early in senior year) and the FTCE Professional Education Test (recommended mid-senior year).
More Info (http://fl.nesinc.com)

FTCE tests are not required for award of the minor, but they are required for certification.

Required Courses

All taken at UF

Code	Title	Credits
Classroom Management		
EEX 3616	Core Classroom Management Strategies (online)	3
or ESE 4340C	Effective Teaching and Classroom Management in Secondary Education	
Human Development and Learning		
EDF 3132	The Young Adolescent	3
Instructional Strategies		
EEX 4294	Differentiated Instruction (online)	3
Curriculum and Special Methods		
EME 4406	Integrating Technology into the Secondary Curriculum	3
Reading Competency		
RED 3312	Content Area Literacy	3
Assessment		
EDF 4430	Measurement and Evaluation in Education	3
Total Credits		18

Related Teaching Programs

- Bachelor of Arts in Education and Master of Education, Unified Early Childhood Education ProTeach, Pre-K - Grade 3 (http://catalog.ufl.edu/UGRD/colleges-schools/UGEDU/EYC_BAE)
- Bachelor of Arts in Education and Master of Education, Unified Elementary/Special Education ProTeach, Grades K - 6 (p. 391)
- Bachelor of Arts in Education Sciences (http://catalog.ufl.edu/UGRD/colleges-schools/UGEDU/EDS_BAE)
- UFTeach Mathematics or Science minor (p. 396)

UFTeach | Mathematics or Science Minor

The UFTeach (https://education.ufl.edu/uf-teach) minor in mathematics or science is appropriate for students who wish to teach mathematics or science at the middle school and high school levels in Florida. This is an alternative certification program, specifically a Professional Training Option (PTO), meant to prepare math and science students for temporary teacher certification in Florida. Professional teacher certification is attainable after one year of successful teaching in a Florida public school.

For students majoring in STEM disciplines

About this Program

- **College:** Education (p. 341)
- **Credits:**
- Mathematics | 22, completed with minimum grades of C
- Science | 22, completed with minimum grades of C

- **Contact**
- **Related Teaching Programs**

UFTeach | Mathematics

The minor requires completion of coursework in the professional preparation areas of human development, learning, assessment, classroom management, instructional strategies, reading competency, curriculum and special methods. Students will have extensive opportunities to integrate their teacher education coursework with practice in formal and informal K-12 environments focusing on learning mathematics. This program includes field experiences in local schools. A level 2 background check (fingerprinting) by the School Board of Alachua County will be required before placement.

The minor is open to undergraduates with majors in mathematics, quantitative science or related fields. Admission to this minor requires a UF GPA of 2.5 or better. Students must apply for acceptance to the minor within the college of their major and the College of Education after 45 but before 100 credits are earned.
More Info (https://www.advising.ufl.edu/academicinfo/minors)

Those pursuing the minor are encouraged to complete the Florida Teacher Certification Examination (FTCE) General Knowledge Test (recommended in the junior year), the FTCE Subject Area Exam (recommended early in the senior year) and the FTCE Professional Education Test (recommended mid-senior year).
More Info (http://fl.nesinc.com)

FTCE tests are not required for award of the minor, but they are required for certification.

Required Courses

Multiple pathways exist for completion of the minor and should be discussed with the UFTeach advisor. The table below represents a recommended pathway.

Course	Title	Credits
First Year		
MAE 2364	Explorations Teaching Secondary Mathematics and Science (Fall / Spring)	3
SMT 3100	Knowing and Learning in Mathematics and Science Teaching (Spring)	3
RED 3312	Content Area Literacy (Fall / Spring / Summer)	3
	Credits	9
Second Year		
SMT 3301C	Classroom Interactions in Mathematics and Science Education (Fall)	3
SMT 3664	Project-Based Instruction in Math and Science Education (Spring)	3
	Credits	6
Third Year		
Select one or more course:		3
MAT 3503	Functions and Modeling (Fall)	
Special topics Course in college of Education (3000 or 4000 level / Term varies) [1]		
Research methods course or undergraduate research in department of major or College of Education (3000 or 4000 level / Term varies)		
	Credits	3
Fourth Year		
SMT 4945	Apprenticeship in Secondary Mathematics and Science Teaching (Fall / Spring)	4
	Credits	4
	Total Credits	22

[1] Educational Technology, Educational Policy, Informal Education, Special Education, Educational Psychology, Assessment, etc.

UFTeach | Science

The minor requires completion of coursework in the professional preparation areas of human development and learning, assessment, classroom management, instructional strategies, reading competency, and curriculum and special methods. Students will have extensive opportunities to integrate their teacher education coursework with practice in formal and informal K-12 environments focused on learning science. This program includes field experiences in local schools. A level 2 background check (fingerprinting) by the School Board of Alachua County will be required before placement.

The minor is open to all CLAS and CALS undergraduate science majors and to engineering majors in any discipline. Admission to this minor requires a UF GPA of 2.5 or better. Students must apply for acceptance to the minor within the college of their major and the College of Education after 45 but before 100 credits are earned.

More Info (https://www.advising.ufl.edu/academicinfo/minors)

Those pursuing the minor are encouraged to complete the Florida Teacher Certification Examination (FTCE) General Knowledge Test (recommended in the junior year), the FTCE Subject Area Exam (recommended early in the senior year) and the FTCE Professional Education Test (recommended mid-senior year).
More Info (http://fl.nesinc.com)

FTCE tests are not required for award of the minor, but they are required for teacher certification.

Required Courses

Multiple pathways exist for completion of the minor and should be discussed with the UFTeach advisor. The table below represents a recommended pathway.

Course	Title	Credits
First Year		
MAE 2364	Explorations Teaching Secondary Mathematics and Science (Fall / Spring)	3
SMT 3100	Knowing and Learning in Mathematics and Science Teaching (Spring)	3
RED 3312	Content Area Literacy (Fall / Spring / Summer)	3
	Credits	9
Second Year		
SMT 3301C	Classroom Interactions in Mathematics and Science Education (Fall)	3
SMT 3664	Project-Based Instruction in Math and Science Education (Spring)	3
	Credits	6
Third Year		
Select one or more courses:		3
MAT 3503	Functions and Modeling (Fall)	
Special topics course in College of Education (3000 or 4000 level / Term varies) [1]		
Research methods course or undergraduate research in department of major or College of Education (3000 or 4000 level / Term varies)		
	Credits	3
Fourth Year		
SMT 4945	Apprenticeship in Secondary Mathematics and Science Teaching (Fall / Spring)	4
	Credits	4
	Total Credits	22

[1] Educational Technology, Educational Policy, Informal Education, Special Education, Educational Psychology, Assessment, etc.

Related Teaching Programs

- Bachelor of Arts in Education and Master of Education, Unified Early Childhood Education ProTeach, Pre-K - Grade 3 (http://catalog.ufl.edu/UGRD/colleges-schools/UGEDU/EYC_BAE)
- Bachelor of Arts in Education and Master of Education, Unified Elementary/Special Education ProTeach, Grades K - 6 (p. 391)
- Bachelor of Arts in Education Sciences (http://catalog.ufl.edu/UGRD/colleges-schools/UGEDU/EDS_BAE)
- Florida Teaching minor (p. 395)

Health and Human Performance, College of

Established in 1947, the College of Health and Human Performance's three primary departments of Applied Physiology and Kinesiology (APK), Health Education and Behavior (HEB), and Tourism Recreation and Sport Management (TRSM) prepares its students to influence and improve an array of societal problems and challenges.

Contact

200 Florida Gym (FLG)
352.392.0578

Map (http://campusmap.ufl.edu/?loc=0021) More Info (http://www.hhp.ufl.edu)

Mailing Addresses

Applied Physiology and Kinesiology
P.O. Box 118205
UF, Gainesville, FL 32611-8205

Health Education and Behavior
P.O. Box 118210
UF, Gainesville, FL 32611-8210

Tourism, Recreation and Sport Management
P.O. Box 118208
UF, Gainesville, FL 32611-8208

Established

1947

Departments

- Department of Applied Physiology and Kinesiology
- Department of Health Education and Behavior
- Department of Tourism, Recreation and Sport Management

Academic Advising

Each academic department has its own academic advisor. It is a college policy that each student discuss their academic plan with an academic advisor before each registration and at any time regarding academic and/or career counseling matters.
More Info (http://hhp.ufl.edu/current-students/academic-advising)

Scholarships

General financial aid information can be obtained from the Office of Student Financial Affairs. In addition, the college offers annual merit-based scholarships.
More Info (http://hhp.ufl.edu/current-students/scholarships)

Internships and Career Guidance

During the semester of expected graduation, all students - except athletic training students - must complete a full semester internship. All coursework must be completed successfully prior to the internship.

Helpful Links

- College Website (http://hhp.ufl.edu)
- Academic Advising (http://hhp.ufl.edu/current-students/academic-advising)
- Combined Degrees (p. 1400)
- Computer Requirement (http://www.it.ufl.edu/policies/student-computing-requirements)
- Dean's List (p. 1385)
- Student Involvement (http://hhp.ufl.edu/current-students/student-involvement)

Academic Policies

Academic Contract

An academic contract is an agreement between the student and advisor that identifies specific actions (grades needed, specific course completion, etc.) which must be completed during an assigned semester or date.

A student may have only one academic contract as a lower-division student and one contract as an upper-division student. A student cannot have an academic contract for consecutive semesters. While on academic contract, **no** I, N or NG grades are permitted.

Calculate Semester GPA (p. 1438)

Failure to meet the academic contract can result in, and is not limited to, one or more of the following actions:

- A college hold preventing future registration
- Cancelation of HHP course registration, and/or
- Change to a new major

Admission Requirements

Students classified as first-semester freshmen at the university will be admitted to the college when they declare a major within the college. At that time, their college classification will become HH.

Students maintain the HH classification as long as they meet the standards set by the college and UF for admission and critical-tracking. Students who are not making satisfactory academic progress may be required to seek admission to another college or to make alternative academic plans.

Students who fall below minimum performance standards will have a registration hold placed on their record. They must meet with an advisor to determine a plan of action before the hold will be removed.

Change of Major

To be considered for a change in major, students must meet the following criteria:

Lower-Division Students

- Minimum UF GPA
- Minimum critical-tracking GPA as designated by department curriculum
- No deficit points
- Completion of the Letter of intent
- Must have the ability to complete all tracking requirements by the required tracking term

Upper-Division Students

- Minimum UF GPA
- Minimum critical-tracking GPA as designated by department curriculum
- No deficit points
- Ability to graduate within 138 credits or 8 semesters (not including summer) without exceeding the maximum credits per semester. (excludes AP/IB courses not needed for HHP degree program)
- Completed 75% of all critical-tracking courses for the desired major
- Met all writing requirements
- Completed a minimum of 27 credits of the general education requirement
- Completion of the Letter of intent

Transfer students will not be permitted to change majors into the college.

In addition to the above, the following applies to current and/or previous HHP majors:

- Current HHP majors may not change to another HHP major unless they currently meet that major's criteria.
- Students who were dismissed from a college major cannot change out of HHP and then be re-accepted to the college as a change of major.

Combined Degree (4-1) Program

The combined degree is available with the Bachelor of Science in Health Education, Tourism, Event and Recreation Management, and Sport Management. The combined degree provides academically talented students the opportunity to complete their bachelor's and master's degrees within the same major in a shorter period of time. The combined degree in health education and behavior is open to all majors. The combined degrees in recreation, parks and tourism and sport management are limited to majors only. Students should review department guidelines for requirements and criteria needed for successful application. Students should apply for the program as a second semester sophomore/first semester junior. Students should discuss this option early with their academic advisor and then contact the appropriate program's graduate coordinator for more information.

Critical-Tracking Courses

All critical-tracking courses must be taken at the University of Florida.

- All critical-tracking attempts will be counted toward the critical-tracking GPA.
- Students may retake a critical-tracking course one time only.
- All critical-tracking courses must be completed by the time noted in the catalog for each major.
- Completing tracking courses beyond the specified time is at the advisor's discretion and must be approved by the advisor in advance.
- Any students completing tracking courses during the first semester of the junior year cannot complete any upper-division HHP courses that semester.

Dean's List (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#deanslisttext)

Deficit Points

Academic dismissal from the college denies registration privileges to students who have a grade point deficit of 15 or more in their upper-division coursework. The student will be dismissed from the college and a hold will be placed on registration.

A student who has been dismissed from the college due to grade point deficit will not be considered for readmission.

Drop Policy

During drop/add, courses can be dropped without penalty. After drop/add, courses may be dropped only through the college's petition process in accordance with university deadlines.

Before completing 60 credits of coursework, students are allowed two unrestricted drops after drop/add. After the completion of 60 credits of UF coursework, students also are allowed two unrestricted drops after drop/add. Students seeking to drop all classes do not have to petition the college; dropping all classes is considered withdrawal and is processed through the Office of the University Registrar in 222 Criser Hall.

If a student is registered for one course only and is seeking to drop that course, this is considered a withdrawal because the student is dropping all courses that semester. Refer to the college withdrawal policy.

Dual Degree or Double Major

The college can permit students to pursue dual degrees in multiple majors.

To request a dual degree the student must:

- Have between 45 and 96 credits (excluding AP, IB, dual enrollment or overseas study credit),
- Have a minimum 3.0 UF GPA at the time the application is submitted, if at least one of the majors is in this college,
- Meet all critical-tracking requirements for the HHP major requested. If one of the majors is outside the college, applicants must get approval from the appropriate college,
- Meet all other college progression standards for both majors and demonstrate potential for success in both majors (successful completion of major and major-related courses without excessive W's, grades less than C or multiple repeats),
- Be able to complete both degrees within 138 credits or eight semesters (not including summer) without exceeding the maximum credits per semester. (Excludes AP/IB courses not needed for HHP degree program.) Additional study is permitted only with the associate dean's approval, and
- Have demonstrated a well-articulated educational goal for which the double major or dual degree is appropriate and/or necessary.

Request for Additional Semesters

Students who wish additional semesters must complete the general petition request and submit it with the graduation plan to their academic advisor.

The request requires:

- Minimum 2.0 UF GPA
- Minimum critical-tracking GPA as designated by department curriculum
- Minimum upper-division GPA as designated by department curriculum
- Minimum major GPA as designated by department curriculum

First Aid and CPR

All students are required to have current first aid, adult CPR and AED certification (American Red Cross or American Heart Association) at the time of registering for internship.

- Students pursuing athletic training (AT) must be current in first aid and emergency cardiac care prior to registering for AT coursework. Please refer to the guidelines for appropriate emergency cardiac care certification (http://apk.hhp.ufl.edu/index.php/current-students/undergraduate-programs/bachelor-of-science-in-athletic-training/at-program-requirements).
- Students in the Department of Tourism, Recreation and Sport Management are required to have child and infant CPR certification in addition to the above requirements.
- 100% online recertification is not acceptable.

Fresh Start Program

This program is for former degree-seeking students who wish to return to the university after an absence of no fewer than five calendar years. During this absence the student should have engaged predominately in

non-academic activities. Students who wish to apply under the Fresh Start Program should follow the UF guidelines.
More Info (p. 19)

Grade Appeals

Any student in the college who feels their performance in a course has not been evaluated accurately should discuss any concerns with the instructor first. If the disagreement is not resolved, the student should consult the department chair, and if still unresolved, contact the associate dean for academic affairs.

The college is a strong supporter of the university's equal opportunity program. Any student who believes they have been discriminated against on the basis of race, color, religion, sex, disability, sexual orientation, age, or national origin should contact the associate dean for academic affairs.

Graduation Participation

All requirements for the bachelor's degree must be completed successfully prior to graduation to participate in graduation ceremonies, including the successful completion of an internship, if required. The college will determine who is eligible to participate in the graduation ceremony. Students must participate in the ceremony that corresponds to the semester they graduate. Students cannot participate in an earlier (walk early) or later ceremony; there are no exceptions.

Health Insurance

All students must secure health insurance or a signed health insurance disclaimer before they begin their internship.

Honors

The university offers three levels of honors at graduation: cum laude, magna cum laude and summa cum laude.
More Info (p. 1385)

Please note that:

- Transfer credits and S/U option credits are excluded.
- Postbaccalaureate students are not eligible for honors recognition.
- Honors recognition is printed on the university diploma.

Follow these guidelines when preparing an honors thesis:

- Submission of an undergraduate thesis to request graduation with magna cum laude or summa cum laude must reflect a high caliber of work.
- The thesis submission form should be secured to the thesis as the first page. This form must be completed with a typewriter or computer; handwritten forms will not be accepted.
- When completing the submission form, pay special attention to the *Key Words* entry, as these words will be used to index the thesis. Think of these words as instrumental in leading a potential reader to the thesis.
- The thesis should be stapled or secured with a binder clip. Binders and folders are discouraged, as they will be discarded when the thesis is filed on microfiche.
- Have the abstract reviewed for organization, content, grammar and spelling before submission.
- The abstract should begin with a definitive statement of the problem or project. The purpose, scope and limit of the thesis should be clearly delineated. Then, as concisely as possible, describe research methods and design, major findings, the significance of your work (if appropriate) and conclusions. The abstract should be 100-200 words.
- Students whose thesis involves *creative* work such as original fine art, music, writing, theatre, film or dance should describe process and production, indicating the forms of documentation on file as thesis materials.
- Type the abstract into the space allotted on the submission form.

Looking for help writing a thesis? The honors program recommends *Conquering Your Undergraduate Thesis* by Nataly Kogan. This book offers helpful and practical advice from fellow students and recent graduates.

HHP honors thesis submission deadlines: Honors thesis/graduation requirements are completed during the last one or two semesters at UF. The final thesis submission is due to the college's associate dean for academic affairs three days before the last day of classes. Refer to the department for process information:

- Applied Physiology and Kinesiology (http://apk.hhp.ufl.edu/index.php/current-students/undergraduate-programs/honors-thesis)
- Health Education and Behavior (http://hhp.ufl.edu/about/departments/heb)
- Tourism, Recreation and Sport Management (http://hhp.ufl.edu/about/departments/trsm)

Incomplete Grades

An incomplete grade may be assigned at the discretion of the instructor as an interim grade for a course in which the student has completed a major portion of the course with a passing grade, been unable to complete course requirements before the end of the term (e.g., before the final exam is taken) because of extenuating circumstances and obtained agreement from the instructor and arranged for resolution of the incomplete grade.

I grades are not to be used when the student is doing unsatisfactory work and the instructor wants to provide another chance to improve. Instructors are not required to assign incomplete grades.

The I grade arrangement should stipulate all conditions for completing the course and earning a letter grade, including a specific expiration date for the arrangement and designation of the grade to be assigned for incomplete work. I grade arrangements should be recorded on a standard contract form, kept in a file in the department's central office and monitored by staff, so that the appropriate grade changes will be made by the end of the following semester. This practice will be particularly useful if the instructor is on leave or has left UF permanently.

If make-up work requires classroom or laboratory attendance in a subsequent term, the student should not register for the course again.

Instead, the student must audit the course and pay course fees. Students who need to audit a course should be referred to the registrar's office to complete audit registration.

If the make-up work does not require classroom or laboratory attendance, the instructor and student should decide on an appropriate plan and deadline for completing the course.

When the course is completed or the arrangement has expired, the instructor will submit a change of grade to the Office of the University Registrar. An I grade should not be assigned to a student who never

attended class; instead, instructors may assign a failing grade or no grade at all, which will result in assignment of N*.

The only time a letter grade should be changed to an I is when the instructor made an error in the grade. For example, there is an I grade arrangement on file for the student, but the instructor forgot and recorded an E instead. The college will approve such grade changes only when clear instructor error has occurred and when the grade is submitted with a copy of the I grade arrangement, which must be dated prior to the final exam period for the course.

These procedures cannot be used to repeat a course for a different grade.

Internships

Prior to graduation, all students - except athletic training students - are required to complete a full semester of internship. This requirement is completed during the semester of expected graduation, after successful completion of all other required coursework (see below). Credits for this requirement are included in the credit total required for graduation. Students will not be granted permission to participate in the graduation ceremony prior to successfully completing the internship experience. Refer to graduation participation, above.

Students are eligible to complete the internship semester if they have:

- **Successfully completed ALL other required courses** and are therefore eligible to graduate upon completion of the internship semester (includes majors, minors, flexible learning, general education, writing requirements, international/diversity and study abroad)
- Secured professional liability insurance
- Current certification in First Aid and CPR (or equivalent) and AED
- UF upper-division cumulative, major and critical-tracking GPA of at least a 2.0, with no I, N or NG grades or flags.
- No deficit points
- All grades posted to UF transcript two weeks before starting internship.
- Submitted all internship materials by the department deadlines and been approved by the department for internship.

Upon submission of the required application for internship (as determined by the department), an academic advisor will determine whether or not the student is academically eligible to complete the internship during the desired semester. For in-depth information regarding internships, please contact a department internship coordinator.

Students can only register and attempt to complete the practicum (if required by the major) and internship two times. If unable to complete successfully after two attempts, the student may be dismissed from the program.

Junior and Senior Status

After reaching 60 credits, students who meet or exceed the 60-credit performance standards specified by the college and the major/department will retain their classification within the college. Juniors and seniors (3HH and 4HH respectively) will be monitored for progress toward the degree. All students must adhere to the policies of the college and the department to retain the HH classification.

Athletic training is a limited access program and therefore requires students to apply during the spring term of their sophomore year. To be eligible to apply, students must meet all academic and clinical requirements. Students who are not selected for the competitive program will not be permitted to continue as an athletic training major and will be changed to the applied physiology and kinesiology (APK) major.

Liability Insurance

All students must secure professional insurance before they begin their internship. All athletic training students are required to maintain professional liability insurance throughout the program.

Maximum Credit Load

UF policy allows a maximum of 18 credits; therefore, to exceed 18 credits, college policy requires students to have

- 3.0 GPA in all categories (e.g., UF GPA, critical-tracking GPA),
- One drop available, and
- Academic advisor approval

Non-Degree Requests

The college follows the university's Employee Education Program (EEP) policies. Non-degree enrollment is restricted to University of Florida employees during the fall and spring semesters only. For college credit and non-UF employees, enrollment is restricted to summer terms only. Non-degree enrollment is subject to the availability of faculty, space and facilities. No application for admission is required.
More Info (http://www.registrar.ufl.edu/forms.html)

Undergraduate students who have been denied admission to UF for any term are not eligible for non-degree registration. Students who have previously attended UF in a degree-seeking status who did not subsequently earn a bachelor's degree are not eligible for non-degree registration.

Visiting Students Attending UF: Undergraduate students in good standing at another accredited collegiate institution can enroll full time at UF as non-degree transient students to complete work to transfer back to the parent institution. The university and this college do not allow transient students during the fall and spring semesters.

Petition Request

Students who are petitioning a department or college policy must complete the general petition request and submit it along with all required documentation to an academic advisor.

The college's associate dean makes the final decision for graduation participation, internship eligibility, appeals of department petitions, change of major to the college and universal tracking transient course requests. These policies require petition review by an academic advisor, the department chair and/or department petitions committee or designated faculty member, and the college petitions committee. The associate dean for academic affairs or the college's academic affairs representative will notify the student of the outcome/decision.

Petitionable items at the department level include course substitutions, non-critical-tracking transient course requests, continuation in a major, department internship deadline, SUS summer requirement, residency requirement and readmission to a major.

For all department-level petitions the academic advisor makes a decision or defers decision to the department chair and/or department petitions committee. If the academic advisor approves, no further action is needed by the department and the student is notified by the advisor.

If the academic advisor denies or defers the petition, it is reviewed by the department petitions committee. If the department chair and/or department petitions committee reviews and approves the denied or deferred petition, the student will be notified of the decision by the academic advisor.

If the department chair and/or department petitions committee denies the petition, the student can appeal to the college petition committee. Regardless of a recommendation to approve or deny, the petition will be reviewed for final decision by the associate dean for academic affairs. The student will be notified of the decision by the associate dean or the college's authorized representative.

If the petition is denied at the college level the student may contact the UF Ombuds Office and/or submit a senate petition, if appropriate.

Postbaccalaureate Status

The university limits the options for postbaccalaureate studies to

- Certificate program/state licensure
- Teacher certification
- Prerequisites for graduate study
- Distance learning

The college abides by the university's postbaccalaureate policy and therefore limits students to the above criteria. In addition, any student wishing to apply under item 3, prerequisites for graduate study, will be required to apply to a specific department, not the department that offers the course they wish to complete. For example: A student wishing to apply to the physical therapy graduate program who needs anatomy and physiology as prerequisites should apply to the College of Public Health and Health Professions as a postbaccalaureate student.
More Info (http://www.admissions.ufl.edu/grad/postbacc.html)

Prerequisite Coursework

The state of Florida has determined that the prerequisite coursework required for a major in the state university system (SUS) will be the same for all SUS schools offering the major. Generally, and in most cases, meeting the prerequisites for admission will be sufficient to meet any course prerequisites. UF students who follow the sequence of courses identified in the critical-tracking plan for their major will satisfy all course prerequisites for that major, provided they achieve the minimum grades required.

Progress toward Degree

The college has identified specific performance standards to help students progress toward a degree.

To meet these standards, students must:

- Maintain a minimum 2.0 UF GPA
- Maintain the minimum critical-tracking GPA as designated by department curriculum
- Maintain the minimum upper-division GPA as designated by department curriculum
- Maintain the minimum major GPA as designated by department curriculum
- Complete the degree within 138 credits or 8 semesters (not including summer) without exceeding the maximum credits per semester (excludes AP/IB courses not needed for HHP degree program).

Request for Fifth Year

Students who wish to receive a fifth year must complete the general petition request and submit it to their academic advisor along with a graduation plan.

Students also must:

- Maintain a minimum 2.0 UF GPA
- Maintain the minimum critical-tracking GPA as designated by department curriculum
- Maintain the minimum upper-division GPA as designated by department curriculum
- Maintain the minimum major GPA as designated by department curriculum

Readmission

To be considered for readmission to the College of Health and Human Performance, students must have a:

- 2.0 UF GPA
- 2.0 critical-tracking GPA, and
- Upper-division GPA as determined by the department/major.

Students who have been dismissed and/or on academic probation (with deficit points) will not be considered for readmission. Readmission is not automatic or guaranteed. In addition to the UF readmission application, applicants must also complete the college's letter of intent.

Student Responsibility

Each student is responsible for registering for and completing the proper courses and for fulfilling all requirements for a degree. The student's advisor will help and counsel, but the student must take the initiative and assume responsibility for meeting all requirements.

Course requirements for each major have been determined and approved by department faculty. The student's program of study is subject to the approval of an advisor in the major.

To make informed decisions and fulfill personal goals, students must take a responsible and active role in their own advising. More specifically, students must:

Knowledge

- Understand the university's and college's academic requirements
- Understand the requirements for the major and minor
- Be familiar with general university academic and behavioral policies, and
- Have a sense of academic and career interests, learning strengths and weaknesses and educational needs.

Behavior

- Meet as needed with advisor
- Come to appointments on time
- Register in a timely fashion
- Follow through with registration, drop/add and withdrawals in a timely fashion
- Review audit regularly
- Check communication regularly, using a UFL email account

- Respond to communication in a timely fashion, and
- Be an effective self-advocate.

Dispositions

- Work cooperatively
- Be open to new ideas and be willing to explore curricular options
- Be interested in and dedicated to the major, and
- Believe in the value of responsibility and accountability.

Study Abroad

The College of Health and Human Performance encourages students in good standing to study abroad. Students are required to meet with an academic advisor regarding degree requirements prior to registering for any study abroad program.

Students wishing to study abroad must:

- Be in good standing with a minimum 2.5 UF GPA (Students cannot be on academic contract nor under conditional admission.)
- Have completed non-UF study abroad courses prior to term 7
- Be in residence at UF for the last 30 credits. This applies to transient (non-UF, credit earning) programs.
- Not delay or extend the UF timeframe of eight terms, excluding summer, for degree completion
- Have transcripts posted to UF before being cleared for internship.

S/U Option

Students are not permitted to complete required courses using the S/U option. However, courses that are not required for degree certification can be completed using the S/U option. Students choosing to complete a course with the S/U option are required to follow UF policy and deadlines. More Info (p. 1438)

Transfer or Flexible Learning Credit

Transfer and/or flexible learning course credit may be allowed even if taken after the student has been admitted to the major. These courses must be approved in advance by the academic advisor. Students are discouraged from taking such courses after 60 credits. As per UF policy, no more than six credits of flexible learning credit and/or a maximum of 60 credits of community college academic credit can apply toward a UF degree.

In general, these courses are recorded on the transcript and can be used to meet core curriculum requirements if approved in advance by the department. At least 60 credits at the 3000 level or higher are required for all majors. Flexible learning and extension course credit are excluded from honors GPA calculation for the College of Health and Human Performance and will not be used to determine Dean's List GPA.

Transfer Students

For application information, all transfer students should refer to the admission as a transfer section. Within space and fiscal limitations, applicants from other institutions who have satisfied minimum requirements will be considered for admission at the junior level. More Info (p. 18)

Florida state college applicants to the College of Health and Human Performance must complete an Associate of Arts degree and meet all university and college-specific requirements. Admission evaluation factors include:

- academic record,
- cumulative grade point average,
- performance in critical-tracking courses,
- extent to which the applicant exceeds minimum requirements, and
- achievements and career goals as stated in the letter of intent.

The admission review process is a holistic review of the applicant's overall record and potential in the chosen academic field. Students who complete preprofessional courses outside the state system (students who attend out-of-state, private and/or international institutions) must submit course descriptions to the department advisor.

In addition to the UF transfer application, applicants must also complete the college's **letter of intent**. Transfer admission is limited and extremely competitive. Priority will be given to applicants who have completed an A.A. degree from a Florida public college, per the state of Florida articulation agreement.

The departments of Applied Physiology and Kinesiology, Tourism, Recreation and Sport Management, and Health Education and Behavior accept transfer students during the fall and spring semesters only and on a limited basis because of space and fiscal limitations.

Transient Request

Students are not permitted to complete critical-tracking courses as a transient student. Upper-division coursework taken as a transient student is discouraged and approvals will be at the discretion of the department. Students wishing to complete work at another institution must submit the college transient request and be approved by an advisor in advance of taking the course.
More Info (http://www.flvc.org/flvc/portal/Home_Page/Student%20Services/College_Transfer_Center/Transient_Student_Admission_Application/!ut/p/c5/04_SB8K8xLLM9MSSzPy8xBz9CP0os3iDEEtPfx9TQwOLABdDA093dw8vA29nQ0dl3/d3/L2dJQSEvUUt3QS9ZQnZ3LzZfMFQ5)

After being approved at the college level, students may complete the UF transient request on the Florida Virtual Campus website.

Withdrawal Policy

An HHP student who withdraws from the university a second time, with a registration of more than one course that semester, will be placed on college probation. Probation terms will be determined by the advisor working with the student.

Degree Requirements

Successful Progress Toward a Degree

The college has identified specific performance standards to help students complete degree requirements. Successfully meeting these standards will enable students to continue in the major and to graduate in a timely manner.

In those cases where the grade point average or grade in a preprofessional requirement is higher for the major or specialization than for the college, the major/specialization requirement takes precedence.

Students who do not meet performance standards will have to meet with an academic advisor to determine an appropriate course of action.

Failure to meet the performance standards will result in a registration hold.

Graduating with Honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

Programs

MAJORS

- Applied Physiology and Kinesiology
- Health Education and Behavior
- Sport Management
- Tourism, Events and Recreation Management

MINORS

- Event Management Minor
- Health Promotion Minor

CERTIFICATES

- Sport Management Certificate

UF ONLINE MAJORS

- Health Education and Behavior | Community Health Promotion UF Online
- Sport Management UF Online

UF ONLINE MINORS

- Health Promotion Minor UF Online

Applied Physiology and Kinesiology

The Department of Applied Physiology and Kinesiology is concerned with quality of life and the aspects of human movement. Significant research contributions, education and service are related to the study of physiological and psychological responsiveness to vigorous and relevant physical activities.

In addition, movement skill capabilities and ways to improve skills and maintain health are determined for the typical person, the person who is disabled and the high-level athlete. Sites for research, student experience and employment include educational institutions, health and fitness centers, businesses and industries, and health agencies and organizations.

Athletic Training

The mission of the Athletic Training Education Program (ATEP) is to develop outstanding entry-level professionals to the profession of athletic training. Through the integration of balanced didactic coursework, intensive hands-on laboratory sessions and excellent clinical experiences, students will become proficient in the prevention, diagnosis, treatment and rehabilitation of injuries and illnesses for the physically active.

ATEP prepares students for entry-level work in secondary schools, colleges and universities, sports medicine clinics, professional sports programs, industrial settings and other healthcare environments. Graduates of ATEP are prepared to complete graduate study in athletic training and related fields. The curriculum is designed to meet accreditation standards set forth by the Commission on Accrediting Athletic Training Education (CAATE) and to prepare students for the Board of Certification (BOC) examination. Students who graduate from the program will receive a Bachelor of Science in athletic training and will meet the requirements to sit for the BOC examination. BOC certification is required to practice athletic training in 49 of the 50 states and is considered the *gold standard* by licensing boards.

Health Education and Behavior

The Department of Health Education and Behavior offers a Bachelor of Science in Health Education with emphases in community health education, health promotion and health studies.

The degree program allows students maximum flexibility when choosing department specialization coursework during the junior and senior years that relates to their personal interests in community and public health education, health promotion in the worksite setting or general health studies.

Students with an interest in community and public health education complete coursework focused on illness and disease prevention among special target groups within a particular community, with the ultimate goal of providing practical health information to diverse population groups through the use of theory-driven educational methods. Community health and public health educators generally find employment in local, state or national government health agencies (state or county health departments, CDC, NIH) and in voluntary public health units such as the American Cancer Society, the March of Dimes and Planned Parenthood.

Students with an interest in health promotion complete coursework that prepares for careers in employee-assistance programs and corporate or hospital-based wellness centers. Many companies with large employee populations have noticed a significant decrease in absenteeism and an increase in work productivity for those employees actively participating in an employee wellness program. In addition, insurance rates tend to be lower for those employees, thus providing an incentive for employers to offer such programs. Employee wellness programs can include sessions for smoking cessation, nutritional guidelines, stress relief and injury prevention, and can also include running an on-site gym.

Students wishing in-depth knowledge of health concerns may complete a specialization in health studies to gain knowledge on a variety of health issues plaguing diverse population groups. Students are also able to complete required prerequisite coursework for professional health programs such as nursing, medical school, physician assistant, occupational therapy and physical therapy, as well as graduate programs in health education or related fields (public health, health administration, epidemiology and disease prevention).

Students majoring in health education and behavior are also eligible for the Bachelor's/Master's of Science combined-degree program, thus receiving both degrees within approximately five years. Students interested in this program should schedule an appointment with the department academic advisor.

Sport Management

The Department of Tourism, Recreation and Sport Management's program in sport management enables the student to apply the fundamental concepts of management, marketing, finance, and law to sport organizations. Students pursue employment opportunities in professional sport franchises, intercollegiate athletic departments, sports media industries, sporting goods merchandising, and sport organizing committees, among other organizations. Within sport organizations, students may focus on facility and event management, marketing,

administration, compliance, ticket operations, sponsorship sales, fundraising, player representation, and a range of other sport-related jobs.

UF's Department of Tourism, Recreation and Sport Management ranks among the top five such academic programs in the United States.

Students must complete curricula requirements with a minimum grade point average as specified by each specialization, achieve 120 semester credits (60 of which must be at or above the 3000 level) and complete all course requirements for the major.

Tourism, Events and Recreation Management

The Department of Tourism, Recreation and Sport Management's program in tourism, events and recreation management is designed to prepare students for entry-level jobs in city, county, state or national park and recreation agencies (youth recreation programs, camps, YMCA/YWCA or park rangers, for example) or in aspects of tourism such as conference and meeting planning, resorts, cruise ships, touring companies, theme parks, hospitality industry, retirement communities as well as for career advancement as managers in government or business leisure industries. Research and training also focuses on understanding the role and impact of leisure services on individuals, health, society and the environment.

UF's Department of Tourism, Recreation and Sport Management ranks among the top five such academic programs in the United States. The curriculum is accredited by the National Recreation and Park Association.

Students must complete curricula requirements with a minimum grade point average as specified by each specialization, achieve 120 semester credits (60 of which must be at or above the 3000 level) and complete all course requirements for the major.

Applied Physiology and Kinesiology

The department offers programs designed to prepare students as specialists in exercise physiology and fitness/wellness.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Applied Physiology and Kinesiology
- **Specializations:** Exercise Physiology (p. 407) | Fitness/Wellness (p. 410)
- **Credits for Degree:** 120
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

The University of Florida admits students as freshmen into the Department of Applied Physiology and Kinesiology. The exercise physiology specialization prepares students for careers in one of the health professions or graduate study in exercise science. Fitness/wellness prepares students to function as exercise technicians, exercise specialists and/or wellness instructors in hospital, corporate, private or government agencies.

Academic Learning Compact

The Bachelor of Science in Applied Physiology and Kinesiology offers specializations in exercise physiology and in fitness/wellness. Students will gain extensive understanding of the anatomical, physiological and psychological bases and consequences of human movement. Students will explore the relationship between physical activity and health and learn how to prevent and treat athletic injuries.

Before Graduating Students Must

- Pass a comprehensive critique performed by an approved professional in the field of applied physiology and kinesiology and as determined by the department's grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Integrate principles and methods of math, social sciences and arts and humanities to applied physiology and kinesiology, wellness and/or fitness environments.
2. Identify and relate the nomenclature, structures and locations of components of human anatomy to health, disease and physical activity.
3. Identify, examine and explain physiological mechanisms of homeostasis at various levels of an organism (i.e., cells, tissues, organs, systems).
4. Investigate and explain the effects of physical activity on psychological health as well as the perspectives used to enhance adherence to healthier lifestyles.
5. Identify and explain the acute and chronic anatomical and physiological adaptations to exercise, training and physical activity.

Critical Thinking

6. Select and utilize the appropriate scientific principles when assessing the health and fitness of an individual and prescribing physical activity based on those assessments.

7. Solve applied physiology and kinesiology problems from personal, scholarly and professional perspectives using fundamental concepts of health and exercise, scientific inquiry, and analytical critical and creative thinking.
8. Collect, compare and interpret qualitative or quantitative data in an applied physiology and kinesiology context.

Communication

9. Effectively employ written, oral, visual and electronic communication techniques to foster inquiry, collaboration and engagement among applied physiology and kinesiology peers and professionals as well as with patients, clients and/or subjects.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9
APK 3110C	I	I	I	I	I	I	I	I	I
APK 3200		R			R		R		R
APK 3220C	R	R	R		R		R	R	R
APK 3400	R			R			R		R
APK 3405	R			R	R	R	R		R
APK 4050	R					R	R	R	R
APK 4125C	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A
APK 4940C	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A

Assessment Types

- Laboratory practical exam
- Internship evaluation

Applied Physiology and Kinesiology | Exercise Physiology

The department offers programs designed to prepare students as specialists in exercise physiology and fitness/wellness.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Applied Physiology and Kinesiology
- **Specializations:** Exercise Physiology (p. 407) | Fitness/Wellness (p. 410)
- **Credits for Degree:** 120
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

The University of Florida admits students as freshmen into the Department of Applied Physiology and Kinesiology. The exercise physiology specialization prepares students for careers in one of the health professions or graduate study in exercise science. Fitness/wellness prepares students to function as exercise technicians, exercise specialists and/or wellness instructors in hospital, corporate, private or government agencies.

Exercise Physiology

The exercise physiology specialization prepares students for a career in the health professions, including medical, nursing, dental, physical or occupational therapy, and physician assistant, or for graduate study in exercise science or biomedical health fields. The curriculum provides a strong basic science background and requires additional coursework in the biological aspects of exercise. Students are required to complete a one semester internship as a capstone experience. All required courses must be completed before the internship. A maximum of two Cs can be earned in tracking courses. All other tracking grades must be B or better.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=310505&track=02) may be used for transfer students.

Semester 1

- Complete 2 of 9 critical-tracking courses with a 3.0 GPA on tracking coursework: APK 2100C, APK 2105C, APK 3110C, BSC 2010 and BSC 2010L, BSC 2011 and BSC 2011L, CHM 2045 and CHM 2045L, CHM 2046 and CHM 2046L, MAC 2311, PSY 2012
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses with a 3.0 GPA on tracking coursework
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with a 3.0 GPA on tracking coursework
- 2.0 UF GPA required

Semester 4

- Complete 2 critical-tracking courses with a 3.0 GPA on all tracking coursework
- 2.0 UF GPA required

Semester 5

- Complete all 9 critical-tracking courses with a 3.0 GPA on all tracking coursework
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		2
	Credits	13
Semester Two		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
Gen Ed Composition; Writing Requirement		3
STA 2023	Introduction to Statistics 1 (recommended; Gen Ed Mathematics)	3
	Credits	16
Semester Three		
APK 2100C	Applied Human Anatomy with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences with Diversity or International		3
Elective (Writing Requirement: 6,000 words)		3
	Credits	17
Semester Four		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4

Gen Ed Biological or Physical Sciences		3
Gen Ed Social and Behavioral Sciences with Diversity or International; Writing Requirement: 6,000 words		3
	Credits	14
Semester Five		
APK 3110C	Physiology of Exercise and Training (**Critical Tracking**)	3
APK 3200	Motor Learning	3
APK 4050	Research Methods	3
PHY 2053	Physics 1	5
& 2053L	and Laboratory for Physics 1	
Approved elective		3
	Credits	17
Semester Six		
APK 3220C	Biomechanical Basis of Movement	3
APK 3400	Introduction to Sport Psychology	3
or APK 3405	or Exercise Psychology	
APK 4112	Advanced Exercise Physiology	3
APK 4115	Neuromuscular Aspects of Exercise	3
Approved electives		4
	Credits	16
Semester Seven		
APK 4120	Clinical Exercise Physiology	3
APK 4125C	Physical Fitness Assessment and Exercise Prescription	3
APK 4144	Movement Neuroscience	3
Approved electives		6
	Credits	15
Semester Eight		
APK 4940C	Internship	12
	Credits	12
	Total Credits	120

Academic Learning Compact

The Bachelor of Science in Applied Physiology and Kinesiology offers specializations in exercise physiology and in fitness/wellness. Students will gain extensive understanding of the anatomical, physiological and psychological bases and consequences of human movement. Students will explore the relationship between physical activity and health and learn how to prevent and treat athletic injuries.

Before Graduating Students Must

- Pass a comprehensive critique performed by an approved professional in the field of applied physiology and kinesiology and as determined by the department's grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Integrate principles and methods of math, social sciences and arts and humanities to applied physiology and kinesiology, wellness and/or fitness environments.
2. Identify and relate the nomenclature, structures and locations of components of human anatomy to health, disease and physical activity.
3. Identify, examine and explain physiological mechanisms of homeostasis at various levels of an organism (i.e., cells, tissues, organs, systems).
4. Investigate and explain the effects of physical activity on psychological health as well as the perspectives used to enhance adherence to healthier lifestyles.
5. Identify and explain the acute and chronic anatomical and physiological adaptations to exercise, training and physical activity.

Critical Thinking

6. Select and utilize the appropriate scientific principles when assessing the health and fitness of an individual and prescribing physical activity based on those assessments.
7. Solve applied physiology and kinesiology problems from personal, scholarly and professional perspectives using fundamental concepts of health and exercise, scientific inquiry, and analytical critical and creative thinking.
8. Collect, compare and interpret qualitative or quantitative data in an applied physiology and kinesiology context.

Communication

9. Effectively employ written, oral, visual and electronic communication techniques to foster inquiry, collaboration and engagement among applied physiology and kinesiology peers and professionals as well as with patients, clients and/or subjects.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9
APK 3110C	I	I	I	I	I	I	I	I	I
APK 3200		R			R		R		R
APK 3220C	R	R	R		R		R	R	R
APK 3400	R			R			R		R
APK 3405	R			R	R	R	R		R
APK 4050	R					R	R	R	R
APK 4125C	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A
APK 4940C	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A

Assessment Types

- Laboratory practical exam
- Internship evaluation

Applied Physiology and Kinesiology | Fitness/Wellness

The department offers programs designed to prepare students as specialists in exercise physiology and fitness/wellness.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Applied Physiology and Kinesiology
- **Specializations:** Exercise Physiology (p. 407) | Fitness/Wellness (p. 410)
- **Credits for Degree:** 120
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

The University of Florida admits students as freshmen into the Department of Applied Physiology and Kinesiology. The exercise physiology specialization prepares students for careers in one of the health professions or graduate study in exercise science. Fitness/wellness prepares students to function as exercise technicians, exercise specialists and/or wellness instructors in hospital, corporate, private or government agencies.

Fitness/Wellness

The fitness/wellness specialization emphasizes the practical and applied aspects of exercise science. Students in this specialization become exercise technicians and specialists in hospitals and corporate, private or state agencies. Many students in this specialization also pursue careers in health professions. Students are required to complete a one semester internship as a capstone experience. All required courses must be completed before the internship.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=310505&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 8 critical-tracking courses with a 2.5 GPA on tracking coursework: APK 2100C, APK 2105C, ATR 2010C, ECO 2023 or AEB 2014, HUN 2201, MAC 1140 or MAC 1147 or calculus, PSY 2012, STA 2023. Minimum grades of C are required in APK 2100C, APK 2105C and ATR 2010C.
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses with a 2.6 GPA on tracking coursework
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with a 2.7 GPA on tracking coursework
- 2.0 UF GPA required

Semester 4

- Complete all 8 critical-tracking courses with a 2.8 GPA on tracking coursework
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3-4
MAC 1140	Precalculus Algebra (**Critical Tracking**; Gen Ed Mathematics)	
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; Gen Ed Mathematics)	
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; Gen Ed Mathematics)	
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Biological or Physical Sciences:		3
CHM 2045	General Chemistry 1 (State Core Gen Ed Biological or Physical Sciences (p. 23))	
BSC 2005	Biological Sciences (State Core Gen Ed Biological or Physical Sciences (p. 23))	
BSC 2010	Integrated Principles of Biology 1 (State Core Gen Ed Biological or Physical Sciences (p. 23))	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15-16
Semester Two		
Select one:		3-4
AEB 2014	Economic Issues, Food and You (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Gen Ed Composition; Writing Requirement		3
Select one elective:		3
AEC 3030C	Effective Oral Communication	
SPC 2608	Introduction to Public Speaking	
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-16
Semester Three		
APK 2100C	Applied Human Anatomy with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
HUN 2201	Fundamentals of Human Nutrition (**Critical Tracking**; Gen Ed Biological Sciences)	3
Electives (Gen Ed International; Writing Requirement)		8
	Credits	15
Semester Four		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
ATR 2010C	Prevention and Care of Athletic Injuries (**Critical Tracking**)	3
HSC 3102	Personal and Family Health (Gen Ed Social and Behavioral Sciences)	3
Gen Ed Diversity; Writing Requirement		3
Elective		2
	Credits	15
Semester Five		
APK 3110C	Physiology of Exercise and Training	3
APK 3163	Sport Nutrition	3
APK 3200	Motor Learning	3

MAN 3025	Principles of Management (Gen Ed Social and Behavioral Sciences)	4
Elective		3
	Credits	16
Semester Six		
APK 3113C	Principles of Strength and Conditioning	3
APK 4050	Research Methods	3
APK 4125C	Physical Fitness Assessment and Exercise Prescription	3
Approved electives		7
	Credits	16
Semester Seven		
APK 3220C	Biomechanical Basis of Movement	3
APK 3400 or APK 3405	Introduction to Sport Psychology or Exercise Psychology	3
MAR 3023	Principles of Marketing (Gen Ed Social and Behavioral Sciences)	4
Approved electives		6
	Credits	16
Semester Eight		
APK 4940C	Internship	12
	Credits	12
	Total Credits	120

Academic Learning Compact

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- Pass a comprehensive critique performed by an approved professional in the field of applied physiology and kinesiology and as determined by the department's grading rubric.
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Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Integrate principles and methods of math, social sciences and arts and humanities to applied physiology and kinesiology, wellness and/or fitness environments.
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5. Identify and explain the acute and chronic anatomical and physiological adaptations to exercise, training and physical activity.

Critical Thinking

6. Select and utilize the appropriate scientific principles when assessing the health and fitness of an individual and prescribing physical activity based on those assessments.
7. Solve applied physiology and kinesiology problems from personal, scholarly and professional perspectives using fundamental concepts of health and exercise, scientific inquiry, and analytical critical and creative thinking.
8. Collect, compare and interpret qualitative or quantitative data in an applied physiology and kinesiology context.

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9. Effectively employ written, oral, visual and electronic communication techniques to foster inquiry, collaboration and engagement among applied physiology and kinesiology peers and professionals as well as with patients, clients and/or subjects.

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APK 3110C	I	I	I	I	I	I	I	I	I
APK 3200		R			R		R		R
APK 3220C	R	R	R		R		R	R	R
APK 3400	R			R			R		R
APK 3405	R			R	R	R	R		R
APK 4050	R					R	R	R	R
APK 4125C	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A
APK 4940C	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A

Assessment Types

- Laboratory practical exam
- Internship evaluation

Event Management Minor

This minor provides an opportunity to acquire specialized knowledge and skills in the field of event management. Students can apply the knowledge and skills gained to a variety of settings including but not limited to corporate, non-profits, associations, exhibitions, sport, government, and entertainment. The additional knowledge, skills, and experience gained from this minor can potentially elevate a student's marketability to future employers.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Credits:** 15 | Completed with a 2.0 cumulative GPA and no S-U grades
- **Contact:** 330 Florida Gym (http://campusmap.ufl.edu/?loc=0021)
- **Related Event Management Programs**

The minor is not open to students majoring in Tourism, Event and Recreation Management.

Applicants must receive approval of their college before obtaining Tourism, Recreation and Sport Management approval in room 330, Florida Gym.

All credits must be completed at UF.

Required Courses

Code	Title	Credits
HFT 2750	Event Management	3
HFT 3512	Event Promotion	3
HFT 4517	Convention Sales and Service	3
HFT 4754	Advanced Event Management	3
Approved elective		3
Total Credits		15

Approved Electives

Code	Title	Credits
HFT 3253	Lodging Operations and Management	3
HFT 4468	Hospitality Revenue Management	3
LEI 3301	Principles of Travel and Tourism	3
LEI 3360	Hospitality Management	3
LEI 3843	Entrepreneurship in Tourism, Recreation and Sport Management	3
LEI 4540	Management and Supervision of Leisure Facilities and Personnel	3

Related Event Management Programs

- Bachelor of Science in Tourism, Event and Recreation Management (p. 436)

Health Education and Behavior

The Department of Health Education and Behavior, with a foundation in the social and biological sciences, offers coursework focused on health information and theory application. Students learn techniques to promote healthy lifestyle choices in individual and group settings, with special attention given to diversity and culturally appropriate health education methodologies.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Health Education
- **Specializations:** Community Health Promotion (p. 415) | Health Studies (p. 419)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Health Education and Behavior Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Science in Health Education degree program allows students maximum flexibility to choose department specialization coursework during the junior and senior years that relates to personal interests in the health field. Students can focus their coursework on interest areas in health education and health promotion in community, clinical or worksite settings or in health studies as they prepare for professional health occupations.

Related Health Education and Behavior Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Health Education and Behavior, Community Health Promotion, UF Online (p. 424)
- Health Promotion minor (p. 427)
- Health Promotion minor, UF Online (p. 428)

Academic Learning Compact

The Bachelor of Science in health education prepares students to work as a health education specialist in schools, government agencies, voluntary health organizations, philanthropic foundations, colleges and universities, private-sector industry and healthcare settings. Health education specialists improve the health and well-being of individuals, families, groups and community populations.

Grounded in social, behavioral, biological and health sciences, the curriculum develops understanding of the causes and determinants of mortality and morbidity and develops specific competencies required of entry-level health education specialists. Graduates will be eligible to take the Certified Health Education Specialist examination governed by The National Commission for Health Education Credentialing, Inc.

Before Graduating Students Must

- Satisfactory performance on at least one major assignment or examination for each core course required for the degree, as determined by performance criteria developed specifically for the assignment.
- Satisfactory completion of the 15 credit health education internship (HSC 4876) as indicated on the final performance appraisal.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and apply theories-based strategies for assessing individual and community needs for health education/promotion.
2. Identify and utilize appropriate theory-based models for planning effective health education/promotion programs.
3. Identify and apply a variety of theories, models and strategies for implementing health education/promotion programs.
4. Identify and apply methods and procedures appropriate for evaluating the effectiveness of health education/promotion programs.
5. Coordinate the provisions of health education/promotion services.
6. Describe and employ methods to obtain and disseminate health education/promotion information.
7. Identify and apply the major concepts and principles related to nutrition, substance abuse, emotional health, human sexuality and environmental health.

Critical Thinking

8. Examine situations, conditions and events to solve problems independently and to evaluate health education/promotion outcomes.
9. Select health education/promotion programs and services based on best-evidence.

Communication

10. Communicate health needs, concerns and resources to identified clients and consumers.
11. Communicate health concepts and health information using a variety of channels to individuals, families and groups from diverse backgrounds in various settings.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
HSC 3032							I	I	I	I	I
HSC 3133						R	R	I, R			R
HSC 3134		R				R	R, A	I, R			R
HSC 3143		R				R	R, A	I, R			R
HSC 3201					I	I	I, A	I	I, R	I, R	I, R
HSC 3232C		R									R
HSC 3301		I					R, A				I
HSC 3537								R			
HSC 3574	R	R					A	R			R
HSC 4174	R						R	R			R
HSC 4233	R							R	R		R
HSC 4302	R	R, A		R	R		R, A	R	R		R, A
HSC 4579							R	R			R
HSC 4593		R, A	R, A			R	R			R, A	R, A
HSC 4623							R	R			R
HSC 4624		I, R									R
HSC 4663		R				R		R	R		R
HSC 4694	R	A						R	R		R
HSC 4713	I, A	I, A		I, A	R			R, A	R, A	R	R
HSC 4800						R			R	R	R
HSC 4876	R, A	I, R, A	R, A	R, A	R, A	R, A	R, A	R	A	R, A	R, A

Assessment Types

- Assignments
- Projects
- Internship evaluations
- Exit survey
- Certified Health Education Specialist (CHES) exam
- Florida Department of Health HIV/AIDS 501 Client-Centered Counseling and Testing Certificate

Health Education and Behavior | Community Health Promotion

The Department of Health Education and Behavior, with a foundation in the social and biological sciences, offers coursework focused on health information and theory application. Students learn techniques to promote healthy lifestyle choices in individual and group settings, with special attention given to diversity and culturally appropriate health education methodologies.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Health Education
- **Specializations:** Community Health Promotion (p. 415) | Health Studies (p. 419)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Health Education and Behavior Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Science in Health Education degree program allows students maximum flexibility to choose department specialization coursework during the junior and senior years that relates to personal interests in the health field. Students can focus their coursework on interest areas in health education and health promotion in community, clinical or worksite settings or in health studies as they prepare for professional health occupations.

Related Health Education and Behavior Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Health Education and Behavior, Community Health Promotion, UF Online (p. 424)
- Health Promotion minor (p. 427)
- Health Promotion minor, UF Online (p. 428)

Community Health Promotion

Students with a primary interest in community health education or worksite health promotion should select the Community Health Promotion specialization. Coursework in this specialization is focused on illness and disease prevention among special target groups within a particular community, with the ultimate goal of providing practical health information to diverse population groups through the use of behavioral interventions. Community health promotion specialists generally find employment in local, state or national government health agencies (state or county health departments, CDC, NIH) and in voluntary organizations such as the American Cancer Society, the March of Dimes and American Heart Association. Worksite health promotion specialists find employment opportunities within diverse small and large businesses and organizations.

This specialization is also appropriate for students planning to pursue graduate programs in health education or related fields (community or public health, health administration, health policy and epidemiology and disease preventions).

Students majoring in health education and behavior are also eligible for the Bachelor/Master of Science combined degree program, thus receiving both degrees within approximately five years. Students interested in this program should schedule an appointment with the department academic advisor before the start of their junior year. More information about the health education and behavior BS/MS program (http://heb.hhp.ufl.edu/index.php/academia/undergraduate/combined-degree-programs).

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=512208&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 6 critical-tracking courses: APK 2100C, APK 2105C, BSC 2005/BSC 2005L, MAC 1105 or MAC 1140 or MAC 1147, PSY 2012, STA 2023
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 6 critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required (and maintained through semester 8)

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1105	Basic College Algebra (**Critical Tracking**; Gen Ed Mathematics; or higher level MAC course)	3
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective (Gen Ed International)		3
	Credits	15
Semester Two		
BSC 2005 & 2005L	Biological Sciences and Laboratory in Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Select one (complete before the end of Semester Five):		3
SYG 2000	Principles of Sociology (Gen Ed Social and Behavioral Sciences)	
SYG 2010	Social Problems (Gen Ed Social and Behavioral Sciences)	
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	16
Semester Three		
Select one (complete before the end of Semester Five):		3
AEC 3030C	Effective Oral Communication	
SPC 2608	Introduction to Public Speaking	
APK 2100C	Applied Human Anatomy with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
Electives (Writing Requirement: 6,000 words)		8
	Credits	15
Semester Four		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
HUN 2201	Fundamentals of Human Nutrition (Gen Ed Biological Sciences; complete before the end of Semester five)	3
Electives (Gen Ed Diversity and Writing Requirement: 6,000 words)		7
	Credits	14
Semester Five		
HSC 3032	Foundations of Health Education (**Critical Tracking**)	3
HSC 3102	Personal and Family Health (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	3
HSC specialization courses		6
Elective (3000/4000 level)		3
	Credits	15
Semester Six		
HSC 3201	Community and Environmental Health (**Critical Tracking**)	3
HSC 4713	Planning and Evaluating Health Education Programs (**Critical Tracking**)	3
HSC specialization courses		6
Elective (3000/4000 level)		3
	Credits	15
Semester Seven		
HSC 4302	Methods and Materials in Health Education (**Critical Tracking**)	3
HSC 4800	Health Education Professional Development (**Critical Tracking**)	3
HSC specialization courses		6
Elective (3000/4000 level)		3
	Credits	15

Semester Eight		
HSC 4876	Internship in Health Education (**Critical Tracking**)	15
	Credits	15
	Total Credits	120

HSC Specialization Courses | Select 18 Credits

Code	Title	Credits
HSC 3301	Health Education in Elementary Schools	3
HSC 4133	Human Sexuality Education	3
HSC 4134	Emotional Health and Counseling	3
HSC 4143	Drug Education	3
HSC 4174	Behavioral and Environmental Determinants of Obesity	3
HSC 4232C	Exercise Therapy, Adapted Physical Activity and Health	3
HSC 4233	Patient Health Education	3
HSC 4574	Nutrition Education for Special Populations	3
HSC 4579	Women's Health Issues	3
HSC 4593	HIV/AIDS Education	3
HSC 4623	Minority Health Issues	3
HSC 4624	Trends in International Health	3
HSC 4663	Community Health Methods in Injury Prevention and Control	3
HSC 4664	Health Communication for Consumers	3
HSC 4694	Worksite Health Promotion	3
HSC 4950	Current Topics in Health Education	3

Students must see an advisor before registering for these three courses

Code	Title	Credits
HSC 4813	Practicum in Health Education	1-3
HSC 4905	Individual Study	1-4
HSC 5XXX	Any non-combined 5000-level course offered within the department	

Academic Learning Compact

The Bachelor of Science in health education prepares students to work as a health education specialist in schools, government agencies, voluntary health organizations, philanthropic foundations, colleges and universities, private-sector industry and healthcare settings. Health education specialists improve the health and well-being of individuals, families, groups and community populations.

Grounded in social, behavioral, biological and health sciences, the curriculum develops understanding of the causes and determinants of mortality and morbidity and develops specific competencies required of entry-level health education specialists. Graduates will be eligible to take the Certified Health Education Specialist examination governed by The National Commission for Health Education Credentialing, Inc.

Before Graduating Students Must

- Satisfactory performance on at least one major assignment or examination for each core course required for the degree, as determined by performance criteria developed specifically for the assignment.
- Satisfactory completion of the 15 credit health education internship (HSC 4876) as indicated on the final performance appraisal.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and apply theories-based strategies for assessing individual and community needs for health education/promotion.
2. Identify and utilize appropriate theory-based models for planning effective health education/promotion programs.
3. Identify and apply a variety of theories, models and strategies for implementing health education/promotion programs.
4. Identify and apply methods and procedures appropriate for evaluating the effectiveness of health education/promotion programs.
5. Coordinate the provisions of health education/promotion services.
6. Describe and employ methods to obtain and disseminate health education/promotion information.
7. Identify and apply the major concepts and principles related to nutrition, substance abuse, emotional health, human sexuality and environmental health.

Critical Thinking

8. Examine situations, conditions and events to solve problems independently and to evaluate health education/promotion outcomes.
9. Select health education/promotion programs and services based on best-evidence.

Communication

10. Communicate health needs, concerns and resources to identified clients and consumers.
11. Communicate health concepts and health information using a variety of channels to individuals, families and groups from diverse backgrounds in various settings.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
HSC 3032							I	I	I	I	I
HSC 3133						R	R	I, R			R
HSC 3134		R				R	R, A	I, R			R
HSC 3143		R				R	R, A	I, R			R
HSC 3201					I	I	I, A	I	I, R	I, R	I, R
HSC 3232C		R									R
HSC 3301		I					R, A				I
HSC 3537								R			
HSC 3574	R	R					A	R			R
HSC 4174	R						R	R			R
HSC 4233	R							R	R		R
HSC 4302	R	R, A		R	R		R, A	R	R		R, A
HSC 4579							R	R			R
HSC 4593		R, A	R, A			R	R			R, A	R, A
HSC 4623							R	R			R
HSC 4624		I, R									R
HSC 4663		R				R		R	R		R
HSC 4694	R	A						R	R		R
HSC 4713	I, A	I, A		I, A	R			R, A	R, A	R	R
HSC 4800						R			R	R	R
HSC 4876	R, A	I, R, A	R, A	R, A	R, A	R, A	R, A	R	A	R, A	R, A

Assessment Types

- Assignments
- Projects
- Internship evaluations
- Exit survey
- Certified Health Education Specialist (CHES) exam
- Florida Department of Health HIV/AIDS 501 Client-Centered Counseling and Testing Certificate

Health Education and Behavior | Health Studies

The Department of Health Education and Behavior, with a foundation in the social and biological sciences, offers coursework focused on health information and theory application. Students learn techniques to promote healthy lifestyle choices in individual and group settings, with special attention given to diversity and culturally appropriate health education methodologies.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Health Education
- **Specializations:** Community Health Promotion (p. 415) | Health Studies (p. 419)
- **Credits for Degree:** 120

- **Additional Information**
- **Related Health Education and Behavior Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Science in Health Education degree program allows students maximum flexibility to choose department specialization coursework during the junior and senior years that relates to personal interests in the health field. Students can focus their coursework on interest areas in health education and health promotion in community, clinical or worksite settings or in health studies as they prepare for professional health occupations.

Related Health Education and Behavior Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Health Education and Behavior, Community Health Promotion, UF Online (p. 424)
- Health Promotion minor (p. 427)
- Health Promotion minor, UF Online (p. 428)

Health Studies

Students who want in-depth knowledge of diverse health topics, with the intention to complete postbaccalaureate work in a professional health program such as medicine, dentistry, optometry, pharmacy, physician assistant, occupational therapy and physical therapy should select the health studies specialization. This specialization enables students to gain knowledge on a variety of health issues plaguing diverse population groups and to complete required prerequisite coursework for professional health programs. Students may also pursue graduate programs in health education or related fields (public health, health administration and epidemiology and disease prevention).

Additional science coursework is included within the semester plan to help students meet prerequisites for professional health programs. However, it is imperative that students review the requirements for targeted graduate programs as additional prerequisite coursework outside the curriculum for the major. Students should meet regularly with a pre-health advisor in the Academic Advising Center (100 Farrior Hall) as well as the department academic advisor to ensure adequate preparation for application to professional health programs. Ultimately, students are responsible for ensuring completion of the required prerequisites for their chosen professional health program.

Students majoring in health education and behavior are also eligible for the Bachelor/Master of Science combined degree program, thus receiving both degrees within approximately five years. Students interested in this program should schedule an appointment with the department academic advisor before the start of their junior year. More information about the health education and behavior BS/MS program (http://heb.hhp.ufl.edu/index.php/academia/undergraduate/combined-degree-programs).

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=512208&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 7 critical-tracking courses: APK 2100C, APK 2105C, BSC 2010/BSC 2010L, CHM 2045/CHM 2045L, MAC 1140 or higher level course, PSY 2012, STA 2023
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 7 critical-tracking courses, including labs
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required (and maintained through semester 8)

All general education requirements, including international (N) and diversity (D), must be completed prior to the final internship semester.

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
HSC 3102	Personal and Family Health (Gen Ed Social and Behavioral Sciences; complete before the end of Semester five)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1140	Precalculus Algebra (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	16
Semester Two		
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Select one (complete before the end of Semester Five):		3
SYG 2000	Principles of Sociology (Gen Ed Social and Behavioral Sciences)	
SYG 2010	Social Problems (Gen Ed Social and Behavioral Sciences)	
Gen Ed Composition; Writing Requirement: 6,000 words		3
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory ((recommended elective))	
	Credits	16
Semester Three		
APK 2100C	Applied Human Anatomy with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	
Elective (Writing Requirement: 6,000 words)		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	14
Semester Four		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
HUN 2201	Fundamentals of Human Nutrition (Gen Ed Biological Sciences; complete before the end of Semester five)	3
Elective (Writing Requirement: 6,000 words)		3
Recommended electives: [2]		5
BSC 2011	Integrated Principles of Biology 2	
BSC 2011L	Integrated Principles of Biology Laboratory 2	
CHM 2210	Organic Chemistry 1 [3]	
	Credits	15
Semester Five		
Select one:		3
AEC 3030C	Effective Oral Communication	
SPC 2608	Introduction to Public Speaking	
HSC 3032	Foundations of Health Education (**Critical Tracking**)	3
HSC 3537	Health and Medical Terminology (**Critical Tracking**)	3
HSC specialization course		3
Select one elective: [2]		3

PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms	
	Credits	15
Semester Six		
HSC 4233	Patient Health Education (**Critical Tracking**)	3
HSC 4713	Planning and Evaluating Health Education Programs (**Critical Tracking**)	3
HSC specialization course		3
Recommended electives: [2]		6
PHY 2054	Physics 2	
PHY 2054L	Laboratory for Physics 2	
BCH 4024	Introduction to Biochemistry and Molecular Biology	
DEP 3053	Developmental Psychology (or other advanced psychology)	
	Credits	15
Semester Seven		
HSC 4302	Methods and Materials in Health Education (**Critical Tracking**)	3
HSC 4800	Health Education Professional Development (**Critical Tracking**)	3
HSC specialization course		6
Elective (genetics or science course) [2]		3
	Credits	15
Semester Eight		
HSC 4876	Internship in Health Education [4]	15
	Credits	15
	Total Credits	121

1. Or higher level MAC course.
2. These science courses may not be required for your career goal.
3. Students following a pre-health track may want to begin CHM 2210 during the summer term prior to semester five.
4. Students must register for fulltime internship (15 credits) or part-time internship (6 credits). If the part-time internship option is selected, the student may concurrently register for up to 9 credits of electives or pre-health requisites.

HSC Specialization Courses | Select 12 Credits

Code	Title	Credits
HSC 3201	Community and Environmental Health	3
HSC 3301	Health Education in Elementary Schools	3
HSC 4133	Human Sexuality Education	3
HSC 4134	Emotional Health and Counseling	3
HSC 4143	Drug Education	3
HSC 4174	Behavioral and Environmental Determinants of Obesity	3
HSC 4232C	Exercise Therapy, Adapted Physical Activity and Health	3
HSC 4574	Nutrition Education for Special Populations	3
HSC 4579	Women's Health Issues	3
HSC 4593	HIV/AIDS Education	3
HSC 4623	Minority Health Issues	3
HSC 4624	Trends in International Health	3
HSC 4663	Community Health Methods in Injury Prevention and Control	3
HSC 4664	Health Communication for Consumers	3
HSC 4694	Worksite Health Promotion	3
HSC 4950	Current Topics in Health Education	3

Students must see an advisor before registering for these three courses

Code	Title	Credits
HSC 4813	Practicum in Health Education	1-3
HSC 4905	Individual Study	1-4
HSC 5XXX: Any non-combined 5000-level course offered within the department		1-3

Academic Learning Compact

The Bachelor of Science in health education prepares students to work as a health education specialist in schools, government agencies, voluntary health organizations, philanthropic foundations, colleges and universities, private-sector industry and healthcare settings. Health education specialists improve the health and well-being of individuals, families, groups and community populations.

Grounded in social, behavioral, biological and health sciences, the curriculum develops understanding of the causes and determinants of mortality and morbidity and develops specific competencies required of entry-level health education specialists. Graduates will be eligible to take the Certified Health Education Specialist examination governed by The National Commission for Health Education Credentialing, Inc.

Before Graduating Students Must

- Satisfactory performance on at least one major assignment or examination for each core course required for the degree, as determined by performance criteria developed specifically for the assignment.
- Satisfactory completion of the 15 credit health education internship (HSC 4876) as indicated on the final performance appraisal.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and apply theories-based strategies for assessing individual and community needs for health education/promotion.
2. Identify and utilize appropriate theory-based models for planning effective health education/promotion programs.
3. Identify and apply a variety of theories, models and strategies for implementing health education/promotion programs.
4. Identify and apply methods and procedures appropriate for evaluating the effectiveness of health education/promotion programs.
5. Coordinate the provisions of health education/promotion services.
6. Describe and employ methods to obtain and disseminate health education/promotion information.
7. Identify and apply the major concepts and principles related to nutrition, substance abuse, emotional health, human sexuality and environmental health.

Critical Thinking

8. Examine situations, conditions and events to solve problems independently and to evaluate health education/promotion outcomes.
9. Select health education/promotion programs and services based on best-evidence.

Communication

10. Communicate health needs, concerns and resources to identified clients and consumers.
11. Communicate health concepts and health information using a variety of channels to individuals, families and groups from diverse backgrounds in various settings.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
HSC 3032							I	I	I	I	I
HSC 3133						R	R	I, R			R
HSC 3134		R				R	R, A	I, R			R
HSC 3143		R				R	R, A	I, R			R
HSC 3201					I	I	I, A	I	I, R	I, R	I, R
HSC 3232C		R									R
HSC 3301		I					R, A				I
HSC 3537								R			
HSC 3574	R	R					A	R			R
HSC 4174	R						R	R			R
HSC 4233	R							R	R		R
HSC 4302	R	R, A		R	R		R, A	R	R		R, A
HSC 4579							R	R			R
HSC 4593		R, A	R, A			R	R			R, A	R, A
HSC 4623							R	R			R
HSC 4624		I, R									R

HSC 4663		R				R		R	R		R
HSC 4694	R	A						R	R		R
HSC 4713	I, A	I, A		I, A	R			R, A	R, A	R	R
HSC 4800						R			R	R	R
HSC 4876	R, A	I, R, A	R, A	R, A	R, A	R, A	R, A	R	A	R, A	R, A

Assessment Types

- Assignments
- Projects
- Internship evaluations
- Exit survey
- Certified Health Education Specialist (CHES) exam
- Florida Department of Health HIV/AIDS 501 Client-Centered Counseling and Testing Certificate

Health Education and Behavior | Community Health Promotion UF Online

The Department of Health Education and Behavior, with a foundation in the social and biological sciences, offers coursework focused on health information and theory application. Students learn techniques to promote healthy lifestyle choices in individual and group settings, with special attention given to diversity and culturally appropriate health education methodologies.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Health Education
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Health Education and Behavior Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Science in Health Education | Community health promotion is designed for students with a primary interest in community health education or worksite health promotion. Coursework is focused on illness and disease prevention among special target groups within a particular community, with the ultimate goal of providing practical health information to diverse population groups through the use of behavioral interventions. Community health promotion specialists generally find employment in local, state or national government health agencies (state or county health departments, CDC, NIH) and in voluntary organizations such as the American Cancer Society, the March of Dimes and American Heart Association. Worksite health promotion specialists find employment opportunities within diverse small and large businesses and organizations.

Community health promotion also is appropriate for students planning to pursue graduate programs in health education or related fields (community or public health, health administration, health policy and epidemiology and disease preventions).

Related Health Education and Behavior Programs

- Bachelor of Science in Health Education and Behavior (p. 414)
- Health Promotion minor (p. 427)
- Health Promotion minor, UF Online (p. 428)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=512208&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 6 critical-tracking courses: APK 2100C, APK 2105C, BSC 2005/BSC 2005L; MAC 1105 or MAC 1140 or MAC 1147, PSY 2012, STA 2023

- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 6 critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required (and maintained through semester 8)

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1105	Basic College Algebra (**Critical Tracking**; or higher level MAC course; Gen Ed Mathematics)	3
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Composition (Writing Requirement)		3
Elective (Gen Ed International or Diversity recommended)		3
	Credits	15
Semester Two		
BSC 2005	Biological Sciences	4
& 2005L	and Laboratory in Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Select one (complete before the end of semester five):		3
SYG 2000	Principles of Sociology (Gen Ed Social and Behavioral Sciences)	
SYG 2010	Social Problems (Gen Ed Social and Behavioral Sciences)	
Gen Ed Composition (Writing Requirement)		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	16
Semester Three		
APK 2100C	Applied Human Anatomy with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
SPC 2608	Introduction to Public Speaking (complete before the end of semester five)	3
Elective (Writing Requirement)		8
	Credits	15
Semester Four		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
HUN 2201	Fundamentals of Human Nutrition (Gen Ed Biological Sciences; complete before the end of semester five)	3
Electives (Gen Ed International or Diversity recommended; Writing Requirement)		7
	Credits	14
Semester Five		
HSC 3032	Foundations of Health Education (**Critical Tracking**)	3
HSC 3102	Personal and Family Health (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	3
HSC specialization courses		6

Elective (3000/4000 level)		3
	Credits	15
Semester Six		
HSC 3201	Community and Environmental Health (**Critical Tracking**)	3
HSC 4713	Planning and Evaluating Health Education Programs (**Critical Tracking**)	3
HSC specialization courses		6
Elective (3000/4000 level)		3
	Credits	15
Semester Seven		
HSC 4302	Methods and Materials in Health Education (**Critical Tracking**)	3
HSC 4800	Health Education Professional Development (**Critical Tracking**)	3
HSC specialization courses		6
Elective (3000/4000 level)		3
	Credits	15
Semester Eight		
HSC 4876	Internship in Health Education (**Critical Tracking**)	15
	Credits	15
	Total Credits	120

HSC Specialization Courses | 18 credits

Code	Title	Credits
HSC 4133	Human Sexuality Education	3
HSC 4143	Drug Education	3
HSC 4233	Patient Health Education	3
HSC 4574	Nutrition Education for Special Populations	3
HSC 4579	Women's Health Issues	3
HSC 4593	HIV/AIDS Education	3
HSC 4623	Minority Health Issues	3

Academic Learning Compact

The Bachelor of Science in health education prepares students to work as a health education specialist in schools, government agencies, voluntary health organizations, philanthropic foundations, colleges and universities, private-sector industry and healthcare settings. Health education specialists improve the health and well-being of individuals, families, groups and community populations.

Grounded in social, behavioral, biological and health sciences, the curriculum develops understanding of the causes and determinants of mortality and morbidity and develops specific competencies required of entry-level health education specialists. Graduates will be eligible to take the Certified Health Education Specialist examination governed by The National Commission for Health Education Credentialing, Inc.

Before Graduating Students Must

- Satisfactory performance on at least one major assignment or examination for each core course required for the degree, as determined by performance criteria developed specifically for the assignment.
- Satisfactory completion of the 15 credit health education internship (HSC 4876) as indicated on the final performance appraisal.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and apply theories-based strategies for assessing individual and community needs for health education/promotion.
2. Identify and utilize appropriate theory-based models for planning effective health education/promotion programs.
3. Identify and apply a variety of theories, models and strategies for implementing health education/promotion programs.
4. Identify and apply methods and procedures appropriate for evaluating the effectiveness of health education/promotion programs.
5. Coordinate the provisions of health education/promotion services.
6. Describe and employ methods to obtain and disseminate health education/promotion information.
7. Identify and apply the major concepts and principles related to nutrition, substance abuse, emotional health, human sexuality and environmental health.

Critical Thinking

8. Examine situations, conditions and events to solve problems independently and to evaluate health education/promotion outcomes.
9. Select health education/promotion programs and services based on best-evidence.

Communication

10. Communicate health needs, concerns and resources to identified clients and consumers.
11. Communicate health concepts and health information using a variety of channels to individuals, families and groups from diverse backgrounds in various settings.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
HSC 3032							I	I	I	I	I
HSC 3133						R	R	I, R			R
HSC 3134		R				R	R, A	I, R			R
HSC 3143		R				R	R, A	I, R			R
HSC 3201					I	I	I, A	I	I, R	I, R	I, R
HSC 3232C		R									R
HSC 3301		I					R, A				I
HSC 3537								R			
HSC 3574	R	R					A	R			R
HSC 4174	R						R	R			R
HSC 4233	R							R	R		R
HSC 4302	R	R, A		R	R		R, A	R	R		R, A
HSC 4579							R	R			R
HSC 4593		R, A	R, A			R	R			R, A	R, A
HSC 4623							R	R			R
HSC 4624		I, R									R
HSC 4663		R				R		R	R		R
HSC 4694	R	A						R	R		R
HSC 4713	I, A	I, A		I, A	R			R, A	R, A	R	R
HSC 4800						R			R	R	R
HSC 4876	R, A	I, R, A	R, A	R, A	R, A	R, A	R, A	R	A	R, A	R, A

Assessment Types

- Assignments
- Projects
- Internship evaluations
- Exit survey
- Certified Health Education Specialist (CHES) exam
- Florida Department of Health HIV/AIDS 501 Client-Centered Counseling and Testing Certificate

Health Promotion Minor

The minor in health promotion provides a basic understanding of the community health field and an opportunity to gain background in a variety of health issues related to disease prevention and health promotion. Coursework for this minor focuses on health promotion and disease prevention among special target groups within a particular community, with the ultimate goal of providing practical health information to diverse population groups through the use of behavioral interventions.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Credits:** 15 | Completed with a 2.5 cumulative GPA and no grades below C

- **Contact:** 11 Florida Gym (http://campusmap.ufl.edu/?loc=0021)
- **Related Health Education and Behavior Programs**

The minor is open to all juniors and seniors, with the exception of students majoring in Health Education and Behavior.

This minor requires the completion of at least 15 credit hours of HSC coursework. Students should refer to the course descriptions in the undergraduate catalog for any prerequisites for each course.

Required Courses

Must be successfully completed before taking the specialization electives.

Code	Title	Credits
HSC 3032	Foundations of Health Education	3
HSC 3102	Personal and Family Health	3
HSC 3201	Community and Environmental Health [1]	3
Specialization electives		6
Total Credits		15

[1] Requires STA 2023 with a C or better.

Specialization Electives

Code	Title	Credits
HSC 4133	Human Sexuality Education	3
HSC 4134	Emotional Health and Counseling	3
HSC 4143	Drug Education [1]	3
HSC 4174	Behavioral and Environmental Determinants of Obesity	3
HSC 4233	Patient Health Education	3
HSC 4574	Nutrition Education for Special Populations [2]	3
HSC 4579	Women's Health Issues	3
HSC 4593	HIV/AIDS Education	3
HSC 4623	Minority Health Issues	3
HSC 4624	Trends in International Health	3
HSC 4663	Community Health Methods in Injury Prevention and Control	3
HSC 4664	Health Communication for Consumers	3
HSC 4694	Worksite Health Promotion	3
HSC 4950	Current Topics in Health Education (youth health issues, etc.)	3

[1] Requires APK 2105C with a C or better.

[2] Requires HUN 2201 with a C or better.

Related Health Education and Behavior Programs

- Bachelor of Science in Health Education (p. 414)
- Bachelor of Science in Health Education, Community Health Promotion, UF Online (p. 424)
- Health Promotion minor, UF Online (p. 428)

Health Promotion Minor UF Online

The minor in health promotion provides a basic understanding of the community health field and an opportunity to gain background in a variety of health issues related to disease prevention and health promotion. Coursework for this minor focuses on health promotion and disease prevention among special target groups within a particular community, with the ultimate goal of providing practical health information to diverse population groups through the use of behavioral interventions.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Credits:** 15 | Completed with a 2.5 cumulative GPA and no grades below C

- **Contact:** 1.855.99GATOR
- **Related Health Education and Behavior Programs**

This minor is open to all juniors and seniors, with the exception of students majoring in Health Education and Behavior.

This minor requires the completion of at least 15 credit hours of HSC coursework. Students should refer to the course descriptions in the undergraduate catalog for any prerequisites for each course.

Required Courses

Must be successfully completed before taking the specialization electives.

Code	Title	Credits
HSC 3032	Foundations of Health Education	3
HSC 3102	Personal and Family Health	3
HSC 3201	Community and Environmental Health [1]	3
Specialization electives		6
Total Credits		15

[1] Requires STA 2023 with a C or better.

Specialization Electives

Code	Title	Credits
HSC 4133	Human Sexuality Education	3
HSC 4143	Drug Education [1]	3
HSC 4233	Patient Health Education	3
HSC 4574	Nutrition Education for Special Populations [2]	3
HSC 4579	Women's Health Issues	3
HSC 4593	HIV/AIDS Education	3
HSC 4623	Minority Health Issues	3

[1] Requires APK 2105C with a C or better.

[2] Requires HUN 2201 with a C or better.

Related Health Education and Behavior Programs

- Bachelor of Science in Health Education (p. 414)
- Bachelor of Science in Health Education, Community Health Promotion, UF Online (p. 424)
- Health Promotion minor (p. 427)

Sport Management

A Bachelor of Science in Sport Management enables students to ethically apply the fundamental concepts of management, marketing, finance and law to sport organizations. Coursework prepares students for a range of opportunities in the sport industry, including positions with professional, collegiate and amateur sport organizations.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Sport Management
- **Credits for Degree:** 120
- **Additional Information**
- **Related Sport Management Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The acquisition of knowledge regarding the internal and external factors that influence sport in society enables students to use accepted techniques of discovery and critical thinking to solve problems, evaluate opinions and determine outcomes within the sport management area.

To earn a Bachelor of Science in Sport Management, a student must successfully complete 120 credits of prescribed coursework. Professional core courses, related option courses and specialization electives are taken during your last two years of work. An approved 13-week internship is required upon completion of all coursework. The 12 credit internship is included in the 120 credits prescribed for the degree.

Related Sport Management Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Sport Management, UF Online (p. 432)
- Sport Management certificate (p. 435)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=310504&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 6 critical-tracking courses: ECO 2013 or ECO 2023, MAC 1105, MAR 3023, MAN 3025, PSY 2012 and STA 2023
- 2.2 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking course
- 2.2 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course
- 2.2 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 6 critical-tracking course
- 2.2 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1105	Basic College Algebra (**Critical Tracking**; or higher; State Core Gen Ed Mathematics)	3
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Composition; Writing Requirement		3
	Credits	15
Semester Two		
Select one:		4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
State Core Gen Ed Biological and Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3

Gen Ed Humanities		3
	Credits	16
Semester Three		
MAN 3025	Principles of Management (**Critical Tracking**)	4
SPC 2608 or AEC 3030C	Introduction to Public Speaking or Effective Oral Communication	3
SPM 2000	Introduction to Sport Management	3
Electives		6
	Credits	16
Semester Four		
ACG 2021	Introduction to Financial Accounting	4
EME 2040 or CGS 2531	Introduction to Educational Technology or Problem Solving Using Computer Software	3
MAR 3023	Principles of Marketing (**Critical Tracking**)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	14
Semester Five		
LEI 4880	Research Methods in Tourism, Recreation and Sport Management	3
SPM 3012	Sport and Society	3
SPM 4104	Sport Facility Design and Management	3
Sport management elective		4
TRSM department elective		3
	Credits	16
Semester Six		
SPM 3204	Ethical Issues in Sport	3
SPM 4154	Administration of Sport and Physical Activity	3
Sport management electives		6
Electives		4
	Credits	16
Semester Seven		
LEI 3921	Field Experience in TRSM	3
SPM 3306	Sport Marketing	3
SPM 4515	Sport Business and Finance	3
SPM 4723	Legal Issues in Sport and Physical Activity	3
Sport management elective		3
	Credits	15
Semester Eight		
SPM 4941C	Internship in Sport Management	12
	Credits	12
	Total Credits	120

Academic Learning Compact

The Bachelor of Science in Sport Management enables students to apply the fundamental concepts of management, marketing, finance and law to sport organizations. The acquisition of knowledge regarding the internal and external factors that influence sport in society enables students to use accepted techniques of discovery and critical thinking to solve problems, evaluate opinions and determine outcomes within sport management. They will also be able to use qualitative and quantitative analysis to assess problems and to determine solutions for sport organizations, effectively communicating these assessments in speech and in writing to internal and external constituencies.

Before Graduating Students Must

- Demonstrate competence (minimum final grades of C) in the core courses SPM 4154, SPM 4515 and SPM 4723.
- Critically demonstrate mastery of critical skills (with a minimum score of 21) needed in planning and delivery of tourism, recreation and sport management programs as assessed by the internship supervisor using a select core of questions in the final internship evaluation.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Discuss the interdisciplinary nature of the study of sport management.
2. Examine and explain the internal and external factors that influence and shape sport in society.
3. Explain what constitutes management and what constitutes an organization. Apply the concepts of planning, organizing, leading, and evaluating organizational goals to sport organizations.
4. Examine and explain how ethical behavior influences financial, marketing and managerial decision-making.
5. Identify fundamental marketing concepts to the sport industry, create marketing plans, evaluate market segments and predict consumer behavior.
6. Develop financial strategies and evaluate budgets and sources of revenues and expenses relevant to sport organizations.
7. Explain and judge fundamental legal concepts relevant to tort, contract and constitutional law, and how they apply to the sport management field.

Critical Thinking

8. Use accepted techniques of discovery and critical thinking to solve problems independently and to evaluate opinions and outcomes within and outside of the sport management area.
9. Explain and use qualitative and quantitative analysis through formal and informal assessment strategies.

Communication

10. Effectively produce, interpret and analyze written text, oral messages and multimedia presentations used in sport management related settings.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10
SPM 3012	I, R	A	R	R	I, R		I, R	I, R	R	I, R
SPM 3204	I, R	I, R		I, R, A	R		R	I, R	R	I, R
SPM 3306	I, R	R		R	I, R, A	R		I, R		I, R
SPM 4154	I, R	R	I, R, A	R	R	R		I, R	I	I, R, A
SPM 4515	I, R	R	R	R	R	I, R, A		I, R	I, R	I, R, A
SPM 4723	I, R	R	I, R	I, R			I, R, A	I, R	I, R	I, R, A

Assessment Types

- Assignments
- Final project/course grades
- Supervisor internship evaluation and feedback

Sport Management UF Online

A Bachelor of Science in Sport Management enables students to ethically apply the fundamental concepts of management, marketing, finance and law to sport organizations. Coursework prepares students for a range of opportunities in the sport industry, including positions with professional, collegiate and amateur sport organizations.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Sport Management
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Sport Management Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The acquisition of knowledge regarding the internal and external factors that influence sport in society enables students to use accepted techniques of discovery and critical thinking to solve problems, evaluate opinions and determine outcomes within the sport management area.

To earn a Bachelor of Science in Sport Management, a student must successfully complete 120 credits of prescribed coursework. Professional core courses, related option courses and specialization electives are taken during your last two years of work. Students are also required to complete a 15-credit internship their last semester. The 12-credit internship is part of the 120 credits prescribed for the degree.

Related Sport Management Programs

- Bachelor of Science in Sport Management (p. 429)
- Sport Management certificate (p. 435)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=310504&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 6 critical-tracking courses: ECO 2013 or ECO 2023, MAC 1105, STA 2023, MAN 3025, MAR 3023, PSY 2012
- 2.2 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking course
- 2.2 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course
- 2.2 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 6 additional critical-tracking course
- 2.2 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1105	Basic College Algebra (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	3
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
Gen Ed Biological or Physical Sciences		3
State Core Gen Ed Composition (Writing Requirement)		3
	Credits	15
Semester Two		
Select one:		4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Composition		3

Gen Ed Humanities		3
	Credits	16
Semester Three		
MAN 3025	Principles of Management (**Critical Tracking**)	4
SPC 2608	Introduction to Public Speaking	3
SPM 2000	Introduction to Sport Management	3
Electives		6
	Credits	16
Semester Four		
ACG 2021	Introduction to Financial Accounting	4
EME 2040	Introduction to Educational Technology	3
MAR 3023	Principles of Marketing (**Critical Tracking**)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	14
Semester Five		
LEI 4880	Research Methods in Tourism, Recreation and Sport Management	3
SPM 3012	Sport and Society	3
SPM 4104	Sport Facility Design and Management	3
Sport management elective		4
Select one TRSM department elective:		3
LEI 2181 or SPM 4948	Leisure Contemporary Society or Practicum in Sport Management	
	Credits	16
Semester Six		
SPM 3204	Ethical Issues in Sport	3
SPM 4154	Administration of Sport and Physical Activity	3
Sport management electives		6
Electives		4
	Credits	16
Semester Seven		
LEI 3921	Field Experience in TRSM	3
SPM 3306	Sport Marketing	3
SPM 4515	Sport Business and Finance	3
SPM 4723	Legal Issues in Sport and Physical Activity	3
Sport management elective		3
	Credits	15
Semester Eight		
SPM 4941C	Internship in Sport Management	12
	Credits	12
	Total Credits	120

[1] Or higher level course.

Academic Learning Compact

The Bachelor of Science in Sport Management enables students to apply the fundamental concepts of management, marketing, finance and law to sport organizations. The acquisition of knowledge regarding the internal and external factors that influence sport in society enables students to use accepted techniques of discovery and critical thinking to solve problems, evaluate opinions and determine outcomes within sport management. They will also be able to use qualitative and quantitative analysis to assess problems and to determine solutions for sport organizations, effectively communicating these assessments in speech and in writing to internal and external constituencies.

Before Graduating Students Must

- Demonstrate competence (minimum final grades of C) in the core courses SPM 4154, SPM 4515 and SPM 4723.
- Critically demonstrate mastery of critical skills (with a minimum score of 21) needed in planning and delivery of tourism, recreation and sport management programs as assessed by the internship supervisor using a select core of questions in the final internship evaluation.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Discuss the interdisciplinary nature of the study of sport management.
2. Examine and explain the internal and external factors that influence and shape sport in society.
3. Explain what constitutes management and what constitutes an organization. Apply the concepts of planning, organizing, leading, and evaluating organizational goals to sport organizations.
4. Examine and explain how ethical behavior influences financial, marketing and managerial decision-making.
5. Identify fundamental marketing concepts to the sport industry, create marketing plans, evaluate market segments and predict consumer behavior.
6. Develop financial strategies and evaluate budgets and sources of revenues and expenses relevant to sport organizations.
7. Explain and judge fundamental legal concepts relevant to tort, contract and constitutional law, and how they apply to the sport management field.

Critical Thinking

8. Use accepted techniques of discovery and critical thinking to solve problems independently and to evaluate opinions and outcomes within and outside of the sport management area.
9. Explain and use qualitative and quantitative analysis through formal and informal assessment strategies.

Communication

10. Effectively produce, interpret and analyze written text, oral messages and multimedia presentations used in sport management related settings.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10
SPM 3012	I, R	A	R	R	I, R		I, R	I, R	R	I, R
SPM 3204	I, R	I, R		I, R, A	R		R	I, R	R	I, R
SPM 3306	I, R	R		R	I, R, A	R		I, R		I, R
SPM 4154	I, R	R	I, R, A	R	R	R		I, R	I	I, R, A
SPM 4515	I, R	R	R	R	R	I, R, A		I, R	I, R	I, R, A
SPM 4723	I, R	R	I, R	I, R			I, R, A	I, R	I, R	I, R, A

Assessment Types

- Assignments
- Final project/course grades
- Supervisor internship evaluation and feedback

Sport Management Certificate

The sport management certificate examines the interdisciplinary nature of the study of sport management, while applying the fundamentals of business to the area of sport. The certificate allows the selection of upper-division courses that pertain to a specific career focus in sport management.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Credits:** 12 | Completed with minimum grades of C or better; courses must be taken at UF.
- **Contact:** 352.392.4042 | 330 Florida Gym (http://campusmap.ufl.edu/?loc=0021)
- **Related Sport Management Programs**

This certificate is open to all undergraduates except sport management majors.

Required Courses

Code	Title	Credits
SPM 2000	Introduction to Sport Management	3
Approved electives		9
Total Credits		12

Approved Electives

Code	Title	Credits
SPM 3012	Sport and Society	3
SPM 3204	Ethical Issues in Sport	3
SPM 3306	Sport Marketing	3
SPM 3403	Sport Information Management	3
SPM 4104	Sport Facility Design and Management	3
SPM 4515	Sport Business and Finance	3
SPM 4723	Legal Issues in Sport and Physical Activity	3

Related Sport Management Programs

- Bachelor of Science in Sport Management (p. 429)
- Bachelor of Science in Sport Management, UF Online (p. 432)

Tourism, Events and Recreation Management

This curriculum prepares students to develop, manage and deliver programs and services to a variety of populations in diverse settings within the disciplines of tourism, event and recreation management. Upon completion of the focused coursework and the senior (capstone) internship, students will be prepared to become decision-makers in private and/or public organizations. The curriculum is also designed to prepare students to pursue graduate studies in a similar field or business management.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Tourism, Event and Recreation Management
- **Specializations:** Event Management (p. 437) | Recreation Management (p. 440) | Tourism and Hospitality Management (p. 444)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Tourism, Event and Recreation Management Programs**

To graduate with this major, students must complete all university, college, and major requirements.

To earn the Bachelor of Science in Tourism, Event and Recreation Management courses must be completed successfully in general education, the major and related professional and specialized courses. An approved 13-week internship is required upon completion of all coursework. The 12 credit internship is included in the 120 credits prescribed for the degree.

Related Tourism, Event and Recreation Management Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Event Management minor (p. 413)

Academic Learning Compact

The major in tourism, events and recreation management prepares students for employment and roles in recreation, tourism, sport-related businesses, organizations and agencies at local, state, national and global levels. Through study, research, training and practical experiences, students gain an understanding of the role and impact of leisure services and sport on individuals, families, society and the environment. Emphasis is on management of productivity factors such as human, fiscal and physical resources. Students learn to apply planning, programming, marketing and financing strategies to the development and implementation of recreation, parks and tourism services, events and businesses.

Before Graduating Students Must

- Demonstrate competence (minimum final grades of C) in the core courses LEI 4540, LEI 4570, LEI 4800 and LEI 4880.
- Demonstrate mastery of critical skills (with a minimum score of 21) needed in planning and delivery of tourism, recreation and sport management programs as assessed by the internship supervisor using a select core of questions in the final internship evaluation.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Comprehend major concepts, principles and theories associated with recreation, parks and tourism.
2. Apply management functions of planning, organizing, leading and controlling the use of resources to accomplish performance goals in tourism, events and recreation environments.
3. Identify economic, sociological, psychological, political, legal and environmental issues that influence the delivery of tourism, events and recreation services to residents and tourists.
4. Interpret information technology and statistical techniques in assessment, planning, delivery and evaluation of tourism, events and recreation programs.
5. Apply programming and marketing strategies aligned to the development of tourism, events and recreation services.
6. Develop expertise of the principles of safety, emergency and risk management and the ability to develop and implement risk management plans that ensures the health and safety of participants and staff.

Critical Thinking

7. Comprehend and apply diverse sources of information and data integrated with theoretical frameworks, models and trends to issues related to leadership, management and delivery of tourism, events and recreation services.

Communication

8. Communicate to consumer publics and professional cohorts through written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
LEI 2181			I, R	I, R	I		R, A	I, R
LEI 4540	I, R	R, A	R	R	R	I, R	I, R	R
LEI 4570/ HFT 4468	R, A		I, R					
LEI 4800						R, A		
LEI 4880	R	I, R	R	R, A	R			R
LEI 4940			R	R	R			A
Internship Evaluation			A		A			A

Assessment Types

- Projects
- Papers
- Final internship evaluation score
- Supervisor's internship evaluation

Tourism, Events and Recreation Management | Event Management

This curriculum prepares students to develop, manage and deliver programs and services to a variety of populations in diverse settings within the disciplines of tourism, event and recreation management. Upon completion of the focused coursework and the senior (capstone) internship, students will be prepared to become decision-makers in private and/or public organizations. The curriculum is also designed to prepare students to pursue graduate studies in a similar field or business management.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Tourism, Event and Recreation Management
- **Specializations:** Event Management (p. 437) | Recreation Management (p. 440) | Tourism and Hospitality Management (p. 444)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Tourism, Event and Recreation Management Programs**

To graduate with this major, students must complete all university, college, and major requirements.

To earn the Bachelor of Science in Tourism, Event and Recreation Management courses must be completed successfully in general education, the major and related professional and specialized courses. An approved 13-week internship is required upon completion of all coursework. The 12 credit internship is included in the 120 credits prescribed for the degree.

Related Tourism, Event and Recreation Management Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Event Management minor (p. 413)

Event Management

Event management courses and training focus on the knowledge and skills necessary to administer and manage a variety of events in the public and/or private sectors. The curriculum prepares students to organize events and conferences, as well as community recreation services.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=310301&track=3/6) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses: ECO 2013 or ECO 2023, EDF 3110 or DEP 3053, PSY 2012, SPC 2608 or AEC 3030C, SYG 2000
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 5 critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
STA 2023	Introduction to Statistics 1 (State Core Gen Ed Mathematics (p. 23))	3
Gen Ed Biological or Physical Sciences		3
State Core Gen Ed Composition (Writing Requirement)		3
	Credits	15

Semester Two		
Select one:		4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
EDF 3110	Human Growth and Development (**Critical Tracking**)	
DEP 3053	Developmental Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Composition (Writing Requirement)		3
Gen Ed Mathematics (pure math)		3
	Credits	16
Semester Three		
ACG 2021	Introduction to Financial Accounting	4
SYG 2000	Principles of Sociology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
Gen Ed Humanities and International (Writing Requirement)		3
Electives (Gen Ed Diversity; Writing Requirement)		6
	Credits	16
Semester Four		
LEI 2181	Leisure Contemporary Society (Gen Ed Social and Behavioral Sciences)	3
MAN 3025	Principles of Management (Gen Ed Social and Behavioral Sciences)	4
PSY 2012	General Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Humanities (p. 23)		3
Elective		3
	Credits	16
Semester Five		
HFT 2750	Event Management	3
LEI 3301	Principles of Travel and Tourism	3
LEI 3360	Hospitality Management	3
LEI 3843	Entrepreneurship in Tourism, Recreation and Sport Management	3
MAR 3023	Principles of Marketing (Gen Ed Social and Behavioral Sciences)	4
	Credits	16
Semester Six		
HFT 3512	Event Promotion	3
HFT 4517	Convention Sales and Service	3
LEI 4540	Management and Supervision of Leisure Facilities and Personnel	3
LEI 4880	Research Methods in Tourism, Recreation and Sport Management	3
Elective		2
	Credits	14
Semester Seven		
HFT 4468	Hospitality Revenue Management	3
HFT 4754	Advanced Event Management	3
LEI 3921	Field Experience in TRSM	3
LEI 4800	Legal Aspects of Tourism, Events and Recreation	3
TRSM department elective		3
	Credits	15
Semester Eight		
LEI 4940	Internship in Leisure Services	12
	Credits	12
	Total Credits	120

Academic Learning Compact

The major in tourism, events and recreation management prepares students for employment and roles in recreation, tourism, sport-related businesses, organizations and agencies at local, state, national and global levels. Through study, research, training and practical experiences, students gain an understanding of the role and impact of leisure services and sport on individuals, families, society and the environment. Emphasis is on management of productivity factors such as human, fiscal and physical resources. Students learn to apply planning, programming, marketing and financing strategies to the development and implementation of recreation, parks and tourism services, events and businesses.

Before Graduating Students Must

- Demonstrate competence (minimum final grades of C) in the core courses LEI 4540, LEI 4570, LEI 4800 and LEI 4880.
- Demonstrate mastery of critical skills (with a minimum score of 21) needed in planning and delivery of tourism, recreation and sport management programs as assessed by the internship supervisor using a select core of questions in the final internship evaluation.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Comprehend major concepts, principles and theories associated with recreation, parks and tourism.
2. Apply management functions of planning, organizing, leading and controlling the use of resources to accomplish performance goals in tourism, events and recreation environments.
3. Identify economic, sociological, psychological, political, legal and environmental issues that influence the delivery of tourism, events and recreation services to residents and tourists.
4. Interpret information technology and statistical techniques in assessment, planning, delivery and evaluation of tourism, events and recreation programs.
5. Apply programming and marketing strategies aligned to the development of tourism, events and recreation services.
6. Develop expertise of the principles of safety, emergency and risk management and the ability to develop and implement risk management plans that ensures the health and safety of participants and staff.

Critical Thinking

7. Comprehend and apply diverse sources of information and data integrated with theoretical frameworks, models and trends to issues related to leadership, management and delivery of tourism, events and recreation services.

Communication

8. Communicate to consumer publics and professional cohorts through written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
LEI 2181			I, R	I, R	I		R, A	I, R
LEI 4540	I, R	R, A	R	R	R	I, R	I, R	R
LEI 4570/ HFT 4468	R, A		I, R					
LEI 4800						R, A		
LEI 4880	R	I, R	R	R, A	R			R
LEI 4940			R	R	R			A
Internship Evaluation			A		A			A

Assessment Types

- Projects
- Papers
- Final internship evaluation score
- Supervisor's internship evaluation

Tourism, Events and Recreation Management | Recreation Management

This curriculum prepares students to develop, manage and deliver programs and services to a variety of populations in diverse settings within the disciplines of tourism, event and recreation management. Upon completion of the focused coursework and the senior (capstone) internship, students will be prepared to become decision-makers in private and/or public organizations. The curriculum is also designed to prepare students to pursue graduate studies in a similar field or business management.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Tourism, Event and Recreation Management
- **Specializations:** Event Management (p. 437) | Recreation Management (p. 440) | Tourism and Hospitality Management (p. 444)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Tourism, Event and Recreation Management Programs**

To graduate with this major, students must complete all university, college, and major requirements.

To earn the Bachelor of Science in Tourism, Event and Recreation Management courses must be completed successfully in general education, the major and related professional and specialized courses. An approved 13-week internship is required upon completion of all coursework. The 12 credit internship is included in the 120 credits prescribed for the degree.

Related Tourism, Event and Recreation Management Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Event Management minor (p. 413)

Recreation Management

Recreation management prepares students for activity leadership employment in recreation settings, such as camps, activity programs, YMCAs, YWCAs and Boys and Girls Clubs. Courses focus on planning, implementation and evaluation of recreational activities for all segments of the population, including at-risk youth and senior populations.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=310301&track=3/6) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses: ECO 2013 or ECO 2023, EDF 3110 or DEP 3053, PSY 2012, SPC 2608 or AEC 3030C, SYG 2000
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 5 critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
State Core Gen Ed Composition (Writing Requirement)		3
Gen Ed Biological or Physical Sciences		3
	Credits	15
Semester Two		
Select one:		3
DEP 3053	Developmental Psychology (**Critical Tracking**)	
EDF 3110	Human Growth and Development (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Composition		3
State Core Gen Ed Mathematics (pure math)		3
	Credits	16
Semester Three		
ACG 2021	Introduction to Financial Accounting	4
SYG 2000	Principles of Sociology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	3
Gen Ed Humanities and International (Writing Requirement)		3
Electives (Gen Ed Diversity; Writing Requirement)		6
	Credits	16
Semester Four		
LEI 2181	Leisure Contemporary Society (Gen Ed Social and Behavioral Sciences)	3
MAN 3025	Principles of Management (Gen Ed Social and Behavioral Sciences)	4
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Humanities (p. 23)		3
Elective		3
	Credits	16
Semester Five		
HFT 2750	Event Management	3
LEI 3301	Principles of Travel and Tourism	3
LEI 3360	Hospitality Management	3
LEI 3843	Entrepreneurship in Tourism, Recreation and Sport Management	3
MAR 3023	Principles of Marketing (Gen Ed Social and Behavioral Sciences)	4
	Credits	16
Semester Six		
HFT 3512	Event Promotion	3
LEI 3120 or LEI 4845	Introduction to Outdoor Recreation and Parks or Outdoor Recreation Enterprises	3
LEI 3400	Recreation Program Design and Leadership	3
LEI 4880	Research Methods in Tourism, Recreation and Sport Management	3
Elective		2
	Credits	14
Semester Seven		
LEI 3921	Field Experience in TRSM	3
LEI 4540	Management and Supervision of Leisure Facilities and Personnel	3
LEI 4570	Revenue Resources Management	3
LEI 4800	Legal Aspects of Tourism, Events and Recreation	3
TRSM department elective		3
	Credits	15

Semester Eight		
LEI 4940	Internship in Leisure Services	12
	Credits	12
	Total Credits	120

Academic Learning Compact

The major in tourism, events and recreation management prepares students for employment and roles in recreation, tourism, sport-related businesses, organizations and agencies at local, state, national and global levels. Through study, research, training and practical experiences, students gain an understanding of the role and impact of leisure services and sport on individuals, families, society and the environment. Emphasis is on management of productivity factors such as human, fiscal and physical resources. Students learn to apply planning, programming, marketing and financing strategies to the development and implementation of recreation, parks and tourism services, events and businesses.

Before Graduating Students Must

- Demonstrate competence (minimum final grades of C) in the core courses LEI 4540, LEI 4570, LEI 4800 and LEI 4880.
- Demonstrate mastery of critical skills (with a minimum score of 21) needed in planning and delivery of tourism, recreation and sport management programs as assessed by the internship supervisor using a select core of questions in the final internship evaluation.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Comprehend major concepts, principles and theories associated with recreation, parks and tourism.
2. Apply management functions of planning, organizing, leading and controlling the use of resources to accomplish performance goals in tourism, events and recreation environments.
3. Identify economic, sociological, psychological, political, legal and environmental issues that influence the delivery of tourism, events and recreation services to residents and tourists.
4. Interpret information technology and statistical techniques in assessment, planning, delivery and evaluation of tourism, events and recreation programs.
5. Apply programming and marketing strategies aligned to the development of tourism, events and recreation services.
6. Develop expertise of the principles of safety, emergency and risk management and the ability to develop and implement risk management plans that ensures the health and safety of participants and staff.

Critical Thinking

7. Comprehend and apply diverse sources of information and data integrated with theoretical frameworks, models and trends to issues related to leadership, management and delivery of tourism, events and recreation services.

Communication

8. Communicate to consumer publics and professional cohorts through written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
LEI 2181			I, R	I, R	I		R, A	I, R
LEI 4540	I, R	R, A	R	R	R	I, R	I, R	R
LEI 4570/ HFT 4468	R, A		I, R					
LEI 4800						R, A		
LEI 4880	R	I, R	R	R, A	R			R
LEI 4940			R	R	R			A
Internship Evaluation			A		A			A

Assessment Types

- Projects
- Papers

- Final internship evaluation score
- Supervisor's internship evaluation

Tourism, Events and Recreation Management | Tourism and Hospitality Management

This curriculum prepares students to develop, manage and deliver programs and services to a variety of populations in diverse settings within the disciplines of tourism, event and recreation management. Upon completion of the focused coursework and the senior (capstone) internship, students will be prepared to become decision-makers in private and/or public organizations. The curriculum is also designed to prepare students to pursue graduate studies in a similar field or business management.

About this Program

- **College:** Health and Human Performance (p. 398)
- **Degree:** Bachelor of Science in Tourism, Event and Recreation Management
- **Specializations:** Event Management (p. 437) | Recreation Management (p. 440) | Tourism and Hospitality Management (p. 444)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Tourism, Event and Recreation Management Programs**

To graduate with this major, students must complete all university, college, and major requirements.

To earn the Bachelor of Science in Tourism, Event and Recreation Management courses must be completed successfully in general education, the major and related professional and specialized courses. An approved 13-week internship is required upon completion of all coursework. The 12 credit internship is included in the 120 credits prescribed for the degree.

Related Tourism, Event and Recreation Management Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Event Management minor (p. 413)

Tourism and Hospitality Management

Tourism and hospitality management courses prepare students for administrative and management opportunities in the tourism industry and with agencies responsible for travel and tourism development, resort destination management and hospitality management.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=310301&track=3/6) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses: ECO 2013 or ECO 2023, EDF 3110 or DEP 3053, PSY 2012, SPC 2608 or AEC 3030C, SYG 2000
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 5 critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Gen Ed Biological or Physical Sciences		3
State Core Gen Ed Composition (Writing Requirement)		3
Elective		3
	Credits	15
Semester Two		
Select one:		4
ECO 2023	Principles of Microeconomics (**Critical Tracking**)	
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
EDF 3110	Human Growth and Development (**Critical Tracking**)	
DEP 3053	Developmental Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Mathematics (pure math)		3
Gen Ed Composition		3
	Credits	16
Semester Three		
ACG 2021	Introduction to Financial Accounting	4
SYG 2000	Principles of Sociology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	3
Gen Ed Humanities and International (Writing Requirement)		3
Electives (Gen Ed Diversity; Writing Requirement)		6
	Credits	16
Semester Four		
LEI 2181	Leisure Contemporary Society (Gen Ed Social and Behavioral Sciences)	3
MAN 3025	Principles of Management (Gen Ed Social and Behavioral Sciences)	4
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	16
Semester Five		
HFT 2750	Event Management	3
LEI 3301	Principles of Travel and Tourism	3
LEI 3360	Hospitality Management	3
LEI 3843	Entrepreneurship in Tourism, Recreation and Sport Management	3
MAR 3023	Principles of Marketing (Gen Ed Social and Behavioral Sciences)	4
	Credits	16
Semester Six		
HFT 4743	Tourism and Hospitality Marketing	3
LEI 3303	Fundamentals of Tourism Planning	3
LEI 4540	Management and Supervision of Leisure Facilities and Personnel	3
LEI 4880	Research Methods in Tourism, Recreation and Sport Management	3
Elective		2
	Credits	14

Semester Seven		
HFT 3253	Lodging Operations and Management	3
HFT 4468	Hospitality Revenue Management	3
LEI 3921	Field Experience in TRSM	3
LEI 4800	Legal Aspects of Tourism, Events and Recreation	3
TRSM department elective		3
	Credits	15
Semester Eight		
LEI 4940	Internship in Leisure Services	12
	Credits	12
	Total Credits	120

Academic Learning Compact

The major in tourism, events and recreation management prepares students for employment and roles in recreation, tourism, sport-related businesses, organizations and agencies at local, state, national and global levels. Through study, research, training and practical experiences, students gain an understanding of the role and impact of leisure services and sport on individuals, families, society and the environment. Emphasis is on management of productivity factors such as human, fiscal and physical resources. Students learn to apply planning, programming, marketing and financing strategies to the development and implementation of recreation, parks and tourism services, events and businesses.

Before Graduating Students Must

- Demonstrate competence (minimum final grades of C) in the core courses LEI 4540, LEI 4570, LEI 4800 and LEI 4880.
- Demonstrate mastery of critical skills (with a minimum score of 21) needed in planning and delivery of tourism, recreation and sport management programs as assessed by the internship supervisor using a select core of questions in the final internship evaluation.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Comprehend major concepts, principles and theories associated with recreation, parks and tourism.
2. Apply management functions of planning, organizing, leading and controlling the use of resources to accomplish performance goals in tourism, events and recreation environments.
3. Identify economic, sociological, psychological, political, legal and environmental issues that influence the delivery of tourism, events and recreation services to residents and tourists.
4. Interpret information technology and statistical techniques in assessment, planning, delivery and evaluation of tourism, events and recreation programs.
5. Apply programming and marketing strategies aligned to the development of tourism, events and recreation services.
6. Develop expertise of the principles of safety, emergency and risk management and the ability to develop and implement risk management plans that ensures the health and safety of participants and staff.

Critical Thinking

7. Comprehend and apply diverse sources of information and data integrated with theoretical frameworks, models and trends to issues related to leadership, management and delivery of tourism, events and recreation services.

Communication

8. Communicate to consumer publics and professional cohorts through written text, oral messages and multimedia presentations.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
LEI 2181			I, R	I, R	I		R, A	I, R
LEI 4540	I, R	R, A	R	R	R	I, R	I, R	R
LEI 4570/ HFT 4468	R, A		I, R					
LEI 4800						R, A		
LEI 4880	R	I, R	R	R, A	R			R
LEI 4940			R	R	R			A

Internship Evaluation	A	A	A

Assessment Types

- Projects
- Papers
- Final internship evaluation score
- Supervisor's internship evaluation

Journalism and Communications, College of

With a focus on accuracy, fairness, truth and diversity, preparing leaders in digital and traditional communication fields, the College of Journalism and Communications has consistently been ranked among the top 10 communication programs in the nation and has a long tradition of producing award-winning students. The College of Journalism and Communications prepares students for a career that emphasizes ethical principles and responsible communication in the digital age.

Contact

2096 Weimer Hall
P.O. Box 118400
University of Florida
Gainesville, FL 32611-8400
352.392.0466

Map (http://campusmap.ufl.edu/?loc=0030) More Info (http://www.jou.ufl.edu)

Academic Advising
1060 Weimer Hall
352.392.1124
Email (advising@jou.ufl.edu)

Established

1925

The University of Florida College of Journalism and Communications is driving innovation and engagement across the disciplines of advertising, journalism, public relations and telecommunication. The strength of its programs, faculty, students and alumni — in research and in practice — has earned the college ongoing recognition as one of the best in the nation among its peers.

The college offers bachelor's, master's and doctoral degrees, a mass communication minor, and certificates, both online and on campus. The college's strength is drawn from both academic rigor and experiential learning. CJC students gain practical experience in the Innovation News Center, which generates content across multiple platforms, and The Agency, a strategic communication agency that began operation in 2015.

The college includes seven broadcast and digital media properties.

Accredited

Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

Academic Divisions

- Department of Advertising
- Department of Journalism
- Department of Public Relations
- Department of Telecommunication
- Division of Graduate Studies and Research

Degrees

Bachelor's degrees in advertising, journalism, public relations and telecommunication, Master of Arts and a Ph.D. in mass communication.

Academic Advising

Professional Advising and Teaching Hub (PATH), 1060 Weimer Hall, maintains student records and offers undergraduate academic advising.

Internships

Students can earn credits by completing professional internships. Grades for internships must be S/U. Internship credit can be repeated with change of assignment for a maximum of six credits. Any internship credit beyond the six, such as through the Honors office, will not count toward a student's 124-credit total needed for the degree.

Learning/Training Tools

The college is home to PBS affiliate (WUFT-TV), NPR affiliates (WUFT-FM, WJUF-FM) for North Central Florida, two commercial radio stations (WRUF-AM/FM), a low-power television station (WLUF-TV), the student magazine *Orange and Blue*, the Brechner Center for Freedom of Information, the Innovation News Center (INC), Brechner Project, The Agency, Center for Public Interest Communications, and STEM Translational Communication Research Program.

Scholarships

The College's Knight Division for Scholarships, Career Services and Multicultural Affairs provides undergraduates with information about scholarships and assistantships, internships, placement services, and the college's minority recruitment and retention activities.

The College awards more than $200,000 annually in undergraduate scholarships and assistantships. The application deadline is February 1. For more information, write to:

College of Journalism and Communications
P.O. Box 118400
Gainesville, FL 32611-8400

More Info (https://www.jou.ufl.edu/current-students/current-undergraduate/current-academics/scholarships)

Helpful Links

- College Website (https://www.jou.ufl.edu)
- Combined Degrees (p. 1400)
- Computer Requirement (http://www.it.ufl.edu/policies/student-computing-requirements)
  - Requirements for students majoring in telecommunication may differ from those of other students in the college.
- Dean's List (p. 1385)
- Student Organizations (https://www.jou.ufl.edu/current-students/current-undergraduate/current-academics/studentorganizations)

Academic Policies

Admission

Freshman Information

The university's Office of Admissions coordinates freshman admission.

Transfer Information

The College of Journalism and Communications evaluates applicants on a space-available basis. A 2.5 grade point average (on all work attempted) and 60 credits of acceptable credit are generally required for admission at the junior year.

"An AA graduate from a Florida public postsecondary institution shall receive priority for admission to a state university over out-of-state transfer students." - Florida Board of Governors articulation agreement

To be eligible for admission, a transfer student from a Florida public college must have an Associate of Arts degree, including all prerequisite tracking courses. Transfer students from other universities and non-Florida public colleges should complete the first two years' requirements for the major before transferring.

Students denied admissions may petition. Petitions are available from PATH: Professional Advising and Teaching Hub, 1060 Weimer Hall.

Double Major/Dual Degrees

Students who want to specialize in more than one field can earn one of the bachelor's degrees in this college and a second outside the college. Individuals who want to earn dual bachelor's degrees must complete the required form, including approval signatures from each department/college. Students are expected to complete all undergraduate coursework in 4 years, or two if transferring. Journalism and Communications majors cannot double major or minor within the college.

Combined Degrees

A combined degree program allows interested undergraduates to take up to four graduate classes. These classes fulfill undergraduate college requirements and can then be used a second time to satisfy the requirements for a Master's degree if graded B or higher. Undergraduates from Advertising, Public Relations, Journalism and the Media and Society or Production Telecommunication specializations may apply to participate in one of the combined degree programs in the college.

College Requirements

Typing Ability and Computer Skills

Students are expected to type 20 words per minute before enrolling in JOU 3109C or JOU 3101 or RTV 2100 and 30 words per minute for selected advanced courses.

JOU 3109C is limited to JM, PR, and TEL-NWS majors, except by permission of the Department of Journalism. Students in the other Telecommunication tracks must take RTV 2100.

Student Responsibility

Students are responsible for understanding and meeting all degree requirements. While the college maintains an academic advisory service and carefully works to keep accurate student records, this does not mitigate the student's obligation.

Students should read the college's requirements and should visit a college advisor at least once each semester. Computerized degree audits indicating each student's academic progress are available online at ONE.UF (https://one.uf.edu). The audit is used by PATH advisors as the official standard for a student's satisfactory progress to the degree.

Transfer Credit

Transfer students may transfer up to 60 semester credits from a state college. Credits taken beyond 60 may meet certain requirements but will not count toward the 124 credits needed to graduate. After 60 credits, credit taken with permission as a transient student at another university can be transferred to UF but the last 31 credits needed must be UF courses. Professional courses required for a student's major generally cannot be taken at other schools.

Satisfactory/Unsatisfactory Option

Undergraduate students in the college may not take courses designated ADV, JOU, MMC, PUR, RTV or VIC under the satisfactory-unsatisfactory (S/U) option, except courses which are offered only for an S/U grade. More Info (http://www.flvc.org/flvc/portal/Home_Page/Student%20Services/College_Transfer_Center/Transient_Student_Admission_Application/!ut/p/c5/04_SB8K8xLLM9MSSzPy8xBz9CP0os3iDEEtPfx9TQwOLABdDA093dw8vA29nQ0dl3/d3/L2dJQSEvUUt3QS9ZQnZ3LzZfMFQ5)

Students are permitted to take elective courses outside the college on an S/U basis, subject to university rules published in the Academic Regulations section of this catalog.

After the S/U option is approved, students may not elect to convert to a letter-grade. Writing requirement courses cannot be taken S/U.

Courses for the outside concentration may be taken S/U with the following restrictions (in addition to university restrictions):

- The option may not be applied to any course below the 3000 level.
- Not more than three credits of S/U work may be taken to fulfill the outside concentration requirement.
- No beginning-level course may be offered for outside concentration credit under S/U.
- 9 credits of English required by the college may not be taken S/U.
- Courses used for the quantitative option may not be taken S/U.
- Refer to the university calendar for deadlines to apply for the S/U option.

Probation and Suspension

A student will be placed on college probation if they fail to maintain a 2.0 overall average and a 2.0 professional average. A student will be flagged if either or both of these averages falls below a 2.0 GPA for two consecutive terms. Students on college suspension must successfully petition the college for reinstatement.

Dropping Courses

Petitions to drop courses beyond the first two may be approved only when documented circumstances beyond the student's control prevent the satisfactory completion of a course.

In all cases, students must file the petition with the PATH: Professional Advising and Teaching Hub, 1060 Weimer Hall. Consideration of petitions normally takes 1-2 weeks. All petitions must be submitted before the semester deadline. After these dates, all petitions are processed through the University Petitions Committee in 222 Criser Hall.

Flexible Learning

No CJC student can receive credit for a required professional course in the major through flexible learning study. No more than six semester credits of flexible learning coursework can be used to fulfill undergraduate degree requirements.

Please note: Concurrent enrollment at another institution is not allowed by the College of Journalism and Communications while enrolled in UF courses.

Foreign Language Proficiency or Quantitative Option

This requirement is satisfied by demonstrating proficiency or completing college-level credits in a single foreign language.

Students who elect the foreign language option may meet the requirement by successfully completing the second or third beginning-level course in one foreign language. Or, students can complete two college semesters of American Sign Language.

This is *not* a credit requirement, but a *proficiency* requirement, and it is satisfied by earning a minimum grade of C or S.

From the UF catalog: "UF students may use the FLPE (Foreign Language Proficiency Examinations) to prove proficiency in a foreign language and thus achieve an exemption from a foreign language requirement." More Info (https://teachingcenter.ufl.edu/testing/flpe)

CLEP

Students may also take the corresponding CLEP test for foreign language. From the university catalog: "Students beginning in the fall or spring term must have taken the exams... and have their scores reported to the university before the end of their first term of enrollment at UF." More Info (p. 1408)

For other languages not listed above, students should consult an advisor to discuss acceptable options for demonstrating proficiency. Students who wish to demonstrate proficiency must do so before earning 90 credits.

To meet the quantitative option, take any three of the following courses:

Code	Title	Credits
ACG 2021	Introduction to Financial Accounting	4
ACG 2071	Introduction to Managerial Accounting	4
CGS 2531	Problem Solving Using Computer Software	3
CGS 3063	Computers and Modern Society	3
COP 3275	Computer Programming Using C	3
EME 2040 or ALS 3203	Introduction to Educational Technology PC Use in Agriculture	3
ISM 3004	Computing in the Business Environment	4
STA 2023	Introduction to Statistics 1	3
STA 3024	Introduction to Statistics 2	3
STA 4222	Sample Survey Design	3

Statistics and computer courses listed under the quantitative option can apply three credits toward the general education mathematics requirement. Courses used for the quantitative option cannot be taken for S/U grades.

Outside Concentration

The College of Journalism and Communications requires that all students complete 12 credits of coursework in a department outside of the college. Nine of the twelve credits should be at the 3000 level or above. In lieu of an outside concentration, a student may complete an approved UF minor that is offered outside of the college.

Professional Limit

The college stresses a broad background in liberal arts and sciences. Students spend most of their time on general background courses. The remaining time involves development of professional techniques in relation to this general knowledge.

Because the college insists on a general education background, the number of professional credits (ADV, JOU, MMC, PUR and RTV) applied toward graduation is limited to 52.

Professional courses as defined by the college and accepted by transfer are counted toward the 52 credits. A student must earn a minimum of 72 credits of non-college courses as part of the 124 credits required.

Dean's List

More Info (p. 1385)

Students cannot qualify for dean's list if they have grades of I, N or U. Certificates of recognition are issued by request from the PATH: Professional Advising and Teaching Hub in 1060 Weimer Hall.

Degree Requirements

To earn a bachelor's degree, a student must satisfy these requirements:

- Earn at least 124 credits, up to 60 credits of which may be accepted by transfer from another college or university. The last 31 of these credits must be earned while the student is enrolled in classes in this college. A minimum of 72 credits must come from courses outside the college and a minimum of 52 credits must come from inside the college.
- Earn a minimum 2.0 in all work attempted while an upper-division student and a minimum 2.0 in all work attempted in courses with prefixes ADV, JOU, MMC, PUR, RTV, and VIC.
- Earn a minimum grade of C in required English, speech and foreign language courses. Advertising majors also must earn minimum grades of C in MAR 3023 and STA 2023. Public relations majors must earn a minimum grade of C in STA 2023.

According to the student's major, minimum grades of C are also required in:

Code	Title	Credits
ADV Courses		
ADV 3001	Advertising Strategy	3
ADV 3008	Principles of Advertising	3
ADV 3500	Digital Insights	3
ADV 4101	Copywriting and Visualization	3
ADV 4300	Media Planning	3
ADV 4800	Advertising Campaigns	3
ADV 4940	Advertising Internship [1]	1-4
All JOU and MMC courses [2]		
PUR Courses		
PUR 3000	Principles of Public Relations	3
PUR 3500	Public Relations Research	3
PUR 3801	Public Relations Strategy	3
PUR 4100	Public Relations Writing	4
PUR 4103	Public Relations Visual Communication	3
PUR 4404C	International Public Relations	3
PUR 4800	Public Relations Campaigns	3
PUR 4905	Individual Problems	1-3
PUR 4940	Public Relations Internship [1]	1-3
RTV Courses		
RTV 2100	Writing for Electronic Media	3
RTV 3001	Introduction to Media Industries and Professions	3
RTV 3101	Advanced Writing for Electronic Media	3
RTV 3106	Writing and Reporting for Interactive Media	3
RTV 3303	Audio News and Reporting	3
RTV 3320	Electronic Field Production	3
RTV 3516	Electronic Field Production II	4
RTV 4301	TV News Reporting	3
RTV 4929C	Senior Advanced Workshop in Telecommunication Production	1-3
RTV 3305	In-Depth Broadcast Reporting	3
RTV 3511	Fundamentals of Production	3
RTV 4420	New Media Systems	3
RTV 4432	Ethics and Problems in Telecommunication	3
RTV 4506	Telecommunication Research	3
RTV 4905	Individual Projects in Telecommunication	1-3
RTV 4910	Telecommunication Undergraduate Research	3
RTV 4940	Telecommunication Internship [1]	1-4
VIC Course		
VIC 3001	Sight, Sound and Motion (all majors)	4
Students earning grades below C must retake the course or its equivalent.		

[1] Graded S/U; S grade required.

[2] D grade allowed in MMC 4200.

Policy for Unsuccessful Completion of Required Courses

Students who complete a course and do not earn at least the minimum grade required for satisfying a degree requirement may repeat the course once. If they are not successful the second time they may not retake the course. Students may petition this restriction if there are extenuating circumstances.

Graduating with Honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

Programs

MAJORS

- Advertising
- Journalism
- Public Relations
- Telecommunication

MINORS

- Mass Communication Studies Minor

CERTIFICATES

- International Communication Certificate

UF ONLINE MAJORS

- Public Relations UF Online
- Telecommunication | Media and Society UF Online

UF ONLINE MINORS

- Mass Communication Studies Minor UF Online

Advertising

The advertising curriculum is provides a foundation for problem-solving, strategic thinking, and persuasion techniques that drive audience-centered marketplace communications. Skills attained can be applied to the advertising industry, to entrepreneurism, and to health marketing, among others. Learning outcomes prepare students for the challenges of culturally diverse and technologically changing marketplaces.

About this Program

- **College:** Journalism and Communications
- **Degree:** Bachelor of Science in Advertising
- **Specializations:** Advertising Agency (p. 452) | Persuasive Messaging (p. 456)
- **Credits for Degree:** 124
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

UF's Department of Advertising consistently ranks as one of the top U.S. advertising programs. It is based in a college accredited by the Accrediting Council for Education in Journalism and Mass Communication. The department's curriculum, among the most comprehensive in the United States, is taught by a faculty with the knowledge and experience to bring a balance of professional skills and conceptual orientation to the classroom.

Students choose one of two specializations:

Advertising Agency

Emphasizes skills that are necessary for entry-level positions in an advertising agency and is designed to provide a foundation for advancement to positions of leadership in these organizations. This specialization introduces the concepts and skills needed to prepare for careers in account management, account planning, media planning, research, art direction, and copywriting. All students in the Advertising Campaigns course are required to complete a program-level assessment.

Persuasive Messaging

Focuses on the skill set required to engage media audiences through the use of strategic, persuasive communications. The specialization emphasizes the concepts and application of audience and media analytics, advertising sales, brand storytelling, and message persuasion. The specialization prepares students for careers in a broad array of industries and organizations.

Academic Learning Compact

The advertising curriculum is designed to provide a foundation for problem-solving, strategic thinking, and persuasion techniques that drive audience-centered marketplace communications. Skills attained can be applied to the advertising industry, to entrepreneurism, and to health marketing, among others. Learning outcomes prepare students for the challenges of culturally diverse and technologically changing marketplaces.

Students choose one of two specializations:

Advertising Agency

The Advertising Agency specialization emphasizes skills that are necessary for entry-level positions in an advertising agency and is designed to provide a foundation for advancement to positions of leadership in these organizations. This track introduces students to the concepts and skills needed to prepare for careers in account management, account planning, media planning, research, art direction and copywriting.

Persuasive Messaging

The Persuasive Messaging specialization focuses on the skill set required to engage media audiences through the use of strategic, persuasive communications. The track emphasizes the concepts and application of audience and media analytics, advertising sales, brand storytelling, and message persuasion. The track prepares students for careers in a broad array of industries and organizations.

Before Graduating Students Must

- Achieve a passing score of 70% on your student portfolio, which will be evaluated by two faculty members as part of ADV 4800, the major's capstone course.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Correctly identify information and trends related to the history and roles of professionals and institutions in shaping strategic communications.

Critical Thinking

2. Formulate accurate audience insights from research and consumer information.
3. Correctly analyze strategic communication from case studies in branding.

Communication

4. Work effectively in teams to solve strategic communication problems.
5. Orally present ideas and recommendations clearly and effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
MMC 2604	I				
SPC 2608 or ORI 2000					I
MAR 3023	R	I	I		
ADV 3008	I, R	I	I		

ENC 3254		R			
ADV 3001		R	R	I	R
ADV 3403	R	R	R		
ADV 3500		R	R	R	R
ADV 4800 or Immersion	A	A	A	A	A

Assessment Types

- Exams
- Oral presentations
- Peer Evaluations
- Rubric

Advertising | Advertising Agency

The advertising curriculum is provides a foundation for problem-solving, strategic thinking, and persuasion techniques that drive audience-centered marketplace communications. Skills attained can be applied to the advertising industry, to entrepreneurism, and to health marketing, among others. Learning outcomes prepare students for the challenges of culturally diverse and technologically changing marketplaces.

About this Program

- **College:** Journalism and Communications
- **Degree:** Bachelor of Science in Advertising
- **Specializations:** Advertising Agency (p. 452) | Persuasive Messaging (p. 456)
- **Credits for Degree:** 124
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

UF's Department of Advertising consistently ranks as one of the top U.S. advertising programs. It is based in a college accredited by the Accrediting Council for Education in Journalism and Mass Communication. The department's curriculum, among the most comprehensive in the United States, is taught by a faculty with the knowledge and experience to bring a balance of professional skills and conceptual orientation to the classroom.

Coursework for the Major

Code	Title	Credits
Required Foundation Coursework		
MAR 3023	Principles of Marketing [1]	4
STA 2023	Introduction to Statistics 1 [1]	3
Required Core Coursework		
ADV 3001	Advertising Strategy [1]	3
ADV 3008	Principles of Advertising [1]	3
ADV 3500	Digital Insights [1]	3
ADV 4101	Copywriting and Visualization [1]	3
ADV 4300	Media Planning [1]	3
ADV 4800	Advertising Campaigns [1]	3
ENC 3254	Professional Writing in the Discipline	3
MMC 1009	Introduction to Media and Communications	1
MMC 2121	Writing Fundamentals for Communicators [1]	3
MMC 2604	Mass Media and You	3
MMC 3420	Consumer and Audience Analytics [1]	3
MMC 4200	Law of Mass Communication	3
MMC 3203	Ethics and Problems in Mass Communications [1]	3
VIC 3001	Sight, Sound and Motion [1]	4
Professional Electives		12
Total Credits		60

[1] Minimum grade of C required.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090903&track=01) may be used for transfer students.

Semester 1

- 2.0 GPA on all work at all institutions

Semester 2

- Complete 2 of 8 critical-tracking courses: ADV 3008, ENC 1102, ECO 2013, MAR 3023, MMC 1009, MMC 2604, POS 2041, or PSY 2012, and STA 2023
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 5

- Complete all critical-tracking courses

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
AMH 2020	United States Since 1877 (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
ENC 1101	Expository and Argumentative Writing (Gen Ed Composition) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MMC 2604	Mass Media and You (**Critical Tracking**)	3
State Core Gen Ed Mathematics (p. 23) [2]		3
	Credits	15
Semester Two		
ENC 1102	Argument and Persuasion (**Critical Tracking**; State Core Gen Ed Composition) [1]	3
MMC 1009	Introduction to Media and Communications (**Critical Tracking**)	1
Select one:		3
POS 2041	American Federal Government (**Critical Tracking**)	
PSY 2012	General Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
THE 2000	Theatre Appreciation (State Core Gen Ed Humanities with Diversity (p. 23))	3
or ARH 2000	or Art Appreciation: American Diversity and Global Arts	
Gen Ed Biological or Physical Sciences [1]		3
	Credits	16
Semester Three		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
MMC 2121	Writing Fundamentals for Communicators [1]	3
MUL 2010	Experiencing Music (Gen Ed Humanities with International)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3

Foreign language or quantitative option courses [1]		3
	Credits	16
Semester Four		
ADV 3008	Principles of Advertising (**Critical Tracking**) [1]	3
Select one:		3
CPO 2001	Comparative Politics (Gen Ed Social and Behavioral Sciences)	
INR 2001	Introduction to International Relations (Gen Ed Social and Behavioral Sciences)	
POS 2112	American State and Local Government (Gen Ed Social and Behavioral Sciences)	
ENC 3254	Professional Writing in the Discipline [1]	3
MAR 3023	Principles of Marketing (**Critical Tracking**) [1]	4
Foreign language or quantitative option courses [1]		3
	Credits	16
Semester Five		
ADV 3001	Advertising Strategy [1]	3
ADV 3403	Branding [1]	3
MMC 3420	Consumer and Audience Analytics [1]	3
SPC 2608 or ORI 2000	Introduction to Public Speaking [1] or Oral Performance of Literature 1	3
VIC 3001	Sight, Sound and Motion [1]	4
	Credits	16
Semester Six		
ADV 3500	Digital Insights [1]	3
ADV 4101	Copywriting and Visualization [1]	3
Outside concentration courses		3
Professional electives		6
	Credits	15
Semester Seven		
ADV 4300	Media Planning [1]	3
MMC 3203	Ethics and Problems in Mass Communications [1]	3
MMC 4200	Law of Mass Communication	3
Outside concentration courses		3
Professional electives		3
	Credits	15
Semester Eight		
ADV 4800	Advertising Campaigns	3
Outside concentration courses		6
Professional elective		2
Electives (outside college)		4
	Credits	15
	Total Credits	124

[1] Minimum grade of C required.

[2] Pure math.

For semesters 7-8, students must complete two professional courses.

Professional Electives

12 Credits Minimum

MMC 1009 and 11 additional credits

Students may take any other courses in the College of Journalism and Communications to count as professional electives. Students are encouraged to work with faculty members to select electives that best meet career goals.

Up to six credits of professional internship credit may count toward graduation.

Minimum grade of C required in these courses.

Academic Learning Compact

The advertising curriculum is designed to provide a foundation for problem-solving, strategic thinking, and persuasion techniques that drive audience-centered marketplace communications. Skills attained can be applied to the advertising industry, to entrepreneurism, and to health marketing, among others. Learning outcomes prepare students for the challenges of culturally diverse and technologically changing marketplaces.

Students choose one of two specializations:

Advertising Agency

The Advertising Agency specialization emphasizes skills that are necessary for entry-level positions in an advertising agency and is designed to provide a foundation for advancement to positions of leadership in these organizations. This track introduces students to the concepts and skills needed to prepare for careers in account management, account planning, media planning, research, art direction and copywriting.

Persuasive Messaging

The Persuasive Messaging specialization focuses on the skill set required to engage media audiences through the use of strategic, persuasive communications. The track emphasizes the concepts and application of audience and media analytics, advertising sales, brand storytelling, and message persuasion. The track prepares students for careers in a broad array of industries and organizations.

Before Graduating Students Must

- Achieve a passing score of 70% on your student portfolio, which will be evaluated by two faculty members as part of ADV 4800, the major's capstone course.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Correctly identify information and trends related to the history and roles of professionals and institutions in shaping strategic communications.

Critical Thinking

1. Formulate accurate audience insights from research and consumer information.
2. Correctly analyze strategic communication from case studies in branding.

Communication

1. Work effectively in teams to solve strategic communication problems.
2. Orally present ideas and recommendations clearly and effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
MMC 2604	I				
SPC 2608 or ORI 2000					I
MAR 3023	R	I	I		
ADV 3008	I, R	I	I		
ENC 3254		R			
ADV 3001		R	R	I	R
ADV 3403	R	R	R		
ADV 3500		R	R	R	R
ADV 4800 or Immersion	A	A	A	A	A

Assessment Types

- Exams
- Oral presentations
- Peer Evaluations
- Rubric

Advertising | Persuasive Messaging

The advertising curriculum is provides a foundation for problem-solving, strategic thinking, and persuasion techniques that drive audience-centered marketplace communications. Skills attained can be applied to the advertising industry, to entrepreneurism, and to health marketing, among others. Learning outcomes prepare students for the challenges of culturally diverse and technologically changing marketplaces.

About this Program

- **College:** Journalism and Communications
- **Degree:** Bachelor of Science in Advertising
- **Specializations:** Advertising Agency (p. 452) | Persuasive Messaging (p. 456)
- **Credits for Degree:** 124
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

UF's Department of Advertising consistently ranks as one of the top U.S. advertising programs. It is based in a college accredited by the Accrediting Council for Education in Journalism and Mass Communication. The department's curriculum, among the most comprehensive in the United States, is taught by a faculty with the knowledge and experience to bring a balance of professional skills and conceptual orientation to the classroom.

Coursework for the Major

Code	Title	Credits
Required Foundation Coursework		
MAR 3023	Principles of Marketing [1]	4
STA 2023	Introduction to Statistics 1 [1]	3
Required Core Coursework		
ADV 3001	Advertising Strategy [1]	3
ADV 3008	Principles of Advertising [1]	3
ADV 3403	Branding	3
ADV 3500	Digital Insights [1]	3
ENC 3254	Professional Writing in the Discipline [1]	3
MMC 1009	Introduction to Media and Communications [1]	1
MMC 2121	Writing Fundamentals for Communicators [1]	3
MMC 2604	Mass Media and You	3
MMC 3203	Ethics and Problems in Mass Communications [1]	3
MMC 3420	Consumer and Audience Analytics [1]	3
MMC 4200	Law of Mass Communication	3
VIC 3001	Sight, Sound and Motion [1]	4
Advertising Immersion Experience [1]		3
ADV 4302	Great Ideas in Marketplace Communications	3
ADV 4801	Creative Advertising Competitions	1-3
ADV 4941	Advanced Advertising Internship	1-3
Professional Electives		18
Total Credits		68-72

[1] Minimum grade of C required.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090903&track=01) may be used for transfer students.

Semester 1

- 2.0 GPA on all work at all institutions

Semester 2

- Complete 2 of 8 critical-tracking courses: ADV 3008, ENC 1102, ECO 2013, MAR 3023, MMC 1009, MMC 2604, POS 2041, or PSY 2012, and STA 2023

- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 5

- Complete all critical-tracking courses

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
AMH 2020	United States Since 1877 (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
ENC 1101	Expository and Argumentative Writing (Gen Ed Composition) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MMC 2604	Mass Media and You (**Critical Tracking**)	3
State Core Gen Ed Mathematics (p. 23) [2]		3
	Credits	15
Semester Two		
ENC 1102	Argument and Persuasion (**Critical Tracking**; State Core Gen Ed Composition) [1]	3
MMC 1009	Introduction to Media and Communications (**Critical Tracking**) [1]	1
Select one:		3
POS 2041	American Federal Government (**Critical Tracking**)	
PSY 2012	General Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics) [1]	3
THE 2000 or ARH 2000	Theatre Appreciation (State Core Gen Ed Humanities with Diversity (p. 23)) or Art Appreciation: American Diversity and Global Arts	3
Gen Ed Biological or Physical Sciences [1]		3
	Credits	16
Semester Three		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
MMC 2121	Writing Fundamentals for Communicators [1]	3
MUL 2010	Experiencing Music (Gen Ed Humanities with International)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Foreign language or quantitative option courses [1]		3
	Credits	16
Semester Four		
ADV 3008	Principles of Advertising (**Critical Tracking**) [1]	3
Select one:		3
CPO 2001	Comparative Politics (Gen Ed Social and Behavioral Sciences)	
INR 2001	Introduction to International Relations (Gen Ed Social and Behavioral Sciences)	
POS 2112	American State and Local Government (Gen Ed Social and Behavioral Sciences)	
ENC 3254	Professional Writing in the Discipline [1]	3
MAR 3023	Principles of Marketing (**Critical Tracking**) [1]	4
Foreign language or quantitative option courses [1]		3
	Credits	16
Semester Five		
ADV 3001	Advertising Strategy [1]	3

ADV 3403	Branding [1]	3
MMC 3420	Consumer and Audience Analytics [1]	3
Select one:		3
SPC 2608	Introduction to Public Speaking [1]	
ORI 2000	Oral Performance of Literature 1 [1]	
VIC 3001	Sight, Sound and Motion [1]	4
	Credits	16
Semester Six		
ADV 3500	Digital Insights [1]	3
Outside concentration courses		3
Professional electives [1]		9
	Credits	15
Semester Seven		
MMC 3203	Ethics and Problems in Mass Communications [1]	3
MMC 4200	Law of Mass Communication	3
Outside concentration courses		3
Professional electives [1]		6
	Credits	15
Semester Eight		
Immersion Experience [1]		3
Outside concentration courses		6
Professional elective [1]		2
Electives (outside college)		4
	Credits	15
	Total Credits	124

1 Minimum grade of C required.

2 Pure math.

For semesters 7-8, students must complete two professional courses.

Professional Electives

18 credits minimum

MMC 1009 and 17 additional credits

Students may take any other courses in the College of Journalism and Communications to count as professional electives. Students are encouraged to work with faculty members to select electives that best meet career goals. Recommended certificate options (e.g., International Communication, Graphic Design), combined degree options (Global Strategic Communication, Web Design, Social Media), and various concentrations of strategic messaging courses (e.g., media management, audiences and media, audience engagement) are available in the PATH office and advertising department office.

Up to six credits of professional internship credit may count toward graduation.

Minimum grade of C required in these courses.

Academic Learning Compact

The advertising curriculum is designed to provide a foundation for problem-solving, strategic thinking, and persuasion techniques that drive audience-centered marketplace communications. Skills attained can be applied to the advertising industry, to entrepreneurism, and to health marketing, among others. Learning outcomes prepare students for the challenges of culturally diverse and technologically changing marketplaces.

Students choose one of two specializations:

Advertising Agency

The Advertising Agency specialization emphasizes skills that are necessary for entry-level positions in an advertising agency and is designed to provide a foundation for advancement to positions of leadership in these organizations. This track introduces students to the concepts and skills needed to prepare for careers in account management, account planning, media planning, research, art direction and copywriting.

Persuasive Messaging

The Persuasive Messaging specialization focuses on the skill set required to engage media audiences through the use of strategic, persuasive communications. The track emphasizes the concepts and application of audience and media analytics, advertising sales, brand storytelling, and message persuasion. The track prepares students for careers in a broad array of industries and organizations.

Before Graduating Students Must

- Achieve a passing score of 70% on your student portfolio, which will be evaluated by two faculty members as part of ADV 4800, the major's capstone course.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Correctly identify information and trends related to the history and roles of professionals and institutions in shaping strategic communications.

Critical Thinking

1. Formulate accurate audience insights from research and consumer information.
2. Correctly analyze strategic communication from case studies in branding.

Communication

1. Work effectively in teams to solve strategic communication problems.
2. Orally present ideas and recommendations clearly and effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
MMC 2604	I				
SPC 2608 or ORI 2000					I
MAR 3023	R	I	I		
ADV 3008	I, R	I	I		
ENC 3254		R			
ADV 3001		R	R	I	R
ADV 3403	R	R	R		
ADV 3500		R	R	R	R
ADV 4800 or Immersion	A	A	A	A	A

Assessment Types

- Exams
- Oral presentations
- Peer Evaluations
- Rubric

International Communication Certificate

The international communication certificate emphasizes the impact of internationalization and globalization on communication across disciplines and the program prepares students for career advancement and development.

About this Program

- **College:** Journalism and Communications (p. 447)
- **Credits:** 9 | Completed with minimum grades of C

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

This certificate is open to all undergraduates.

Prerequisites

Code	Title	Credits
ADV 3008	Principles of Advertising	3
PUR 3000	Principles of Public Relations	3

Required Courses

Code	Title	Credits
ADV 4400	International and Cross Cultural Advertising	3
PUR 4203	Ethics and Professional Responsibility in Public Relations	3
PUR 4404C	International Public Relations	3
Total Credits		9

Journalism

The Department of Journalism consistently ranks among the best journalism programs in the country. It is housed in a college professionally accredited by the Accrediting Council for Education in Journalism and Mass Communication. The department's mission is to teach the art and craft of journalism and to foster an appreciation for accuracy, fairness, truth, and diversity.

About this Program

- **College:** Journalism and Communications (p. 447)
- **Degree:** Bachelor of Science in Journalism
- **Specializations:** Journalism (p. 461) | Sports and Media (p. 466)
- **Credits for Degree:** 124
- **Contact:** Email (jouasst@jou.ufl.edu) | 352.392.0500 | 2070 Weimer Hall (http://campusmap.ufl.edu/?loc=0030)
- **Additional Information**
- **Related Journalism Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The courses enable students to develop their storytelling talent - in words or visuals - and prepare them for careers in all kinds of media professions, including as writers, photographers, editor designers, multimedia storytellers, and more. The flexible curriculum allows students to work in all kinds of traditional and new media platforms. Excellent writing skills are essential. Graduates of the program work with major journalism and media companies and have won prolific honors, including the Pulitzer Prize.

In this curriculum, core courses offer students foundational skills and professional electives and capstones allow students to develop strengths and specialization in one or more areas.

Equipment Requirement

All students who major in journalism are required to own a Mac laptop computer with the appropriate software, a digital audio recorder and a digital camera.
More Info (http://www.jou.ufl.edu/academics/bachelors/journalism/equipment-requirement)

Related Journalism Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Academic Learning Compact

The journalism curriculum provides a foundation in reporting, writing, numeracy, the use of public records, First Amendment/media law, history of media, and storytelling in a variety of platforms. Specialized coursework is offered in a variety of subjects, and the curriculum is designed to allow flexibility for faculty to develop curriculum in evolving areas (such is the case for the robust development of courses in data journalism and coding, both areas that did not exist several years ago).

Skills developed are applicable to traditional platforms of journalism, as well as new, hybrid, or non-traditional forms of media. Learning outcomes prepare students for the challenges of culturally diverse and technologically changing marketplaces.

The department has two specializations:

Journalism
Students learn base skills required for journalism- and journalism-related careers. Students gain a foundation in reporting, writing, public records, and more, and they all develop a two-course specialization in their area of interest (such as photojournalism, coding, data journalism, specialized reporting, magazine writing, and more). Students come together after these two-course specializations to work in small teams in a common capstone that emphasizes advanced project work.

Sports and Media
While still having roots in traditional journalism, this curriculum has an emphasis on sports-related coursework across the college's departments. Students are prepared for a variety of careers in sports media. Students are required to do an internship in this curriculum, which can serve as a capstone experience.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content
1. Apply basic numerical and statistical concepts used by journalists.

Critical Thinking
2. Conduct research and evaluation information that is accessible through advanced database and public records.
3. Demonstrate reporting skills that reflect a diverse and pluralistic society.
4. Understand and apply the principles and laws of freedom of speech and press.

Communication
5. Write correctly and clearly in forms and styles appropriate for the journalism and communications professions and audiences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
MMC 2604		I	I	I	
MMC 2121					I
MMC 2450	I				
VIC 3001			R		
JOU 3101	R	R	R	R	R
JOU 3110		A			
JOU 3346	A	R	A		A
JOU 4950	R	R	R	R	R
MMC 4200				A	

Assessment Types

- Exams
- Story Evaluation

Journalism | BSJ

The Department of Journalism consistently ranks among the best journalism programs in the country. It is housed in a college professionally accredited by the Accrediting Council for Education in Journalism and Mass Communication. The department's mission is to teach the art and craft of journalism and to foster an appreciation for accuracy, fairness, truth, and diversity.

About this Program

- **College:** Journalism and Communications (p. 447)
- **Degree:** Bachelor of Science in Journalism
- **Specializations:** Journalism (p. 461) | Sports and Media (p. 466)
- **Credits for Degree:** 124
- **Contact:** Email (jouasst@jou.ufl.edu) | 352.392.0500 | 2070 Weimer Hall (http://campusmap.ufl.edu/?loc=0030)

- **Additional Information**
- **Related Journalism Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The courses enable students to develop their storytelling talent - in words or visuals - and prepare them for careers in all kinds of media professions, including as writers, photographers, editor designers, multimedia storytellers, and more. The flexible curriculum allows students to work in all kinds of traditional and new media platforms. Excellent writing skills are essential. Graduates of the program work with major journalism and media companies and have won prolific honors, including the Pulitzer Prize.

In this curriculum, core courses offer students foundational skills and professional electives and capstones allow students to develop strengths and specialization in one or more areas.

Equipment Requirement

All students who major in journalism are required to own a Mac laptop computer with the appropriate software, a digital audio recorder and a digital camera.
More Info (http://www.jou.ufl.edu/academics/bachelors/journalism/equipment-requirement)

Related Journalism Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Journalism

Required Core Coursework

Code	Title	Credits
JOU 3101	Reporting [1]	3
JOU 3110	Applied Fact Finding [1]	3
JOU 3346L	Multimedia Reporting [1]	3
JOU 4950	Applied Journalism [1]	3
MMC 1009	Introduction to Media and Communications [1]	1
MMC 2450	Data Literacy for Communicators [1]	1
MMC 2604	Mass Media and You [1]	3
MMC 2121	Writing Fundamentals for Communicators [1]	3
MMC 3030	Personal Branding for Communicators [1]	1
MMC 3203	Ethics and Problems in Mass Communications [1]	3
MMC 3254	Media Entrepreneurship [1]	1
MMC 4200	Law of Mass Communication [1]	3
VIC 3001	Sight, Sound and Motion [1]	4
Total Credits		32

[1] Minimum grades of C are required in all journalism courses.

Pre-Approved Two-Course Sequences

6 credits

Students select a two-course sequence in an area of specialization. Students may work with an advisor and the department chair to customize a plan. Students must have appropriate prereqs to enter the first course in the specialization. Students must take course 1 before JOU 4950 and can be simultaneously enrolled in course 2 with JOU 4950, but it is preferred that both courses are completed before taking JOU 4950.

Minimum grade of C required in these courses

First Course	Second Course
JOU 3213	JOU 4214
JOU 3305	JOU 4930
JOU 3363	JOU 4364
JOU 4111	JOU 4123
JOU 4201	JOU 4202
JOU 4308	JOU 4311 or JOU 4447C
JOU 4604	JOU 4605 or JOU 4930 (Video Storytelling)

JOU 4930 (Audience Engagement)	JOU 4930 (Advanced Social Media)
Specialized reporting/writing course 1	Specialized reporting/writing course 2

Selecting an area of emphasis does not preclude students from taking courses in other areas. Students are able to create personalized degree plans in collaboration with an advisor.

Professional Electives

14 credits

Students may take any other courses in the College of Journalism and Communications to count as electives, including other courses in two-course sequences. Students are encouraged to work with faculty members to construct electives that best meet career goals.

Up to six credits of professional internship credit may count toward graduation. Minimum grade of C required in these courses:

Code	Title	Credits
ADV 3008	Principles of Advertising	3
JOU 3109C	Multimedia Writing	3
JOU 3184	Beat Reporting	3
JOU 3212	Magazine Design	3
JOU 3213	Design	3
JOU 3305	Data Journalism	3
JOU 3363	Introduction to Web Apps for Communicators	3
JOU 3601	Photographic Journalism	3
JOU 3920	Professional Practice	1
JOU 4004	History of Journalism	3
JOU 4008	Journalism Studies	3
JOU 4111	Advanced Reporting	3
JOU 4123	Investigative Reporting	3
JOU 4201	News Center Practicum	3
JOU 4202	Advanced News Center Practicum	3
JOU 4214	Advanced Design	3
JOU 4301	Literary Journalism	3
JOU 4308	Magazine and Feature Writing	3
JOU 4311	Narrative Nonfiction Writing	3
JOU 4313C	Sports Reporting	3
JOU 4342	Reporting and Writing for Online Media	3
JOU 4364	Advanced Web Apps for Communicators	3
JOU 4447C	Applied Magazines	3
JOU 4510	Magazine Management and Publication	3
JOU 4603	Specialized Journalistic Photography	3
JOU 4604	Advanced Photographic Journalism 1	3
JOU 4605	Advanced Photographic Journalism 2	3
JOU 4700	Problems and Ethics of Journalism in Society	3
JOU 4905	Individual Problems in Journalism	1-3
JOU 4910	Journalism Undergrad Research	0-3
JOU 4930	Special Study in Journalism	1-3
JOU 4940	Journalism Internship	1-3
MMC 3254	Media Entrepreneurship	1
MMC 3260	Communications on the Internet	3
MMC 3420	Consumer and Audience Analytics	3
MMC 3614	Media and Politics	3
MMC 3702	Rock 'N Roll and American Society Part 1	3
MMC 3703	Sports Media and Society	3
MMC 4302	World Communication Systems	3
MMC 4341L	Advanced Online Media Production	3
PGY 3610	Survey of Photojournalism	2
PUR 3000	Principles of Public Relations	3
RTV 3405	Media and Society	3
Other courses in ADV, PUR, and RTV may be taken with department approval		

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090401&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 6 critical tracking courses: MMC 1009, ENC 1102, MMC 2604, STA 2023, ECO 2013, JOU 3110
- 2.0 GPA on all work at all institutions

Semester 2

- Complete an additional 2 of 6 critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 1 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete all critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
AMH 2020	United States Since 1877 (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23)) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities) [1]	3
MMC 1009	Introduction to Media and Communications (**Critical Tracking**) [1]	1
Select one:		3
THE 2000	Theatre Appreciation (State Core Gen Ed Humanities with Diversity (p. 23))	
ARH 2000	Art Appreciation: American Diversity and Global Arts (State Core Gen Ed Humanities with Diversity (p. 23))	
State Core Gen Ed Mathematics (p. 23) [1]		3
	Credits	16
Semester Two		
ENC 1102	Argument and Persuasion (**Critical Tracking**) [1]	3
MMC 2121	Writing Fundamentals for Communicators [1]	3
MMC 2604	Mass Media and You (**Critical Tracking**) [1]	3
MUL 2010	Experiencing Music (Gen Ed Humanities with International)	3
State Core Gen Ed Biological or Physical Sciences (p. 23) [1]		3
	Credits	15
Semester Three		
Select one:		3
CPO 2001	Comparative Politics	
INR 2001	Introduction to International Relations	
POS 2112	American State and Local Government (preferred; Gen Ed Social and Behavioral Sciences)	
JOU 2100	Broadcast Writing Bootcamp [1]	1

JOU 3101	Reporting [1]	3
JOU 3220C	Visual Journalism [1]	3
MMC 2450	Data Literacy for Communicators (**Critical Tracking**) [1]	1
Gen Ed Biological or Physical Sciences [1]		3
Select one:		3
Foreign language [1]		
Quantitative option		
	Credits	17
Semester Four		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
JOU 3110	Applied Fact Finding (**Critical Tracking**) [1]	3
JOU 3346L	Multimedia Reporting [1]	3
POS 2041	American Federal Government (Gen Ed Social and Behavioral Sciences)	3
Select one:		3
Foreign language [1]		
Quantitative option		
	Credits	16
Semester Five		
MMC 3030	Personal Branding for Communicators [1]	1
Select one:		3
SPC 2608	Introduction to Public Speaking [1]	
ORI 2000	Oral Performance of Literature 1 [1]	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics) [1]	3
First JOU specialization course [1]		3
Outside concentration course		3
Professional electives [1]		4
	Credits	17
Semester Six		
MMC 3203	Ethics and Problems in Mass Communications [1]	3
MMC 3254	Media Entrepreneurship [1]	1
Outside concentration course		3
Professional electives [1]		5
Second JOU specialization course [1]		3
	Credits	15
Semester Seven		
MMC 4200	Law of Mass Communication [1]	3
Elective (outside college)		3
English elective (Writing Requirement: 6,000 words) [1]		3
Professional electives [1]		5
	Credits	14
Semester Eight		
JOU 4950	Applied Journalism [1]	3
Electives (outside college)		5
Outside concentration courses		6
	Credits	14
	Total Credits	124

[1] Minimum grade of C required.

Academic Learning Compact

The journalism curriculum provides a foundation in reporting, writing, numeracy, the use of public records, First Amendment/media law, history of media, and storytelling in a variety of platforms. Specialized coursework is offered in a variety of subjects, and the curriculum is designed to allow flexibility for faculty to develop curriculum in evolving areas (such is the case for the robust development of courses in data journalism and coding, both areas that did not exist several years ago).

Skills developed are applicable to traditional platforms of journalism, as well as new, hybrid, or non-traditional forms of media. Learning outcomes prepare students for the challenges of culturally diverse and technologically changing marketplaces.

The department has two specializations:

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Students learn base skills required for journalism- and journalism-related careers. Students gain a foundation in reporting, writing, public records, and more, and they all develop a two-course specialization in their area of interest (such as photojournalism, coding, data journalism, specialized reporting, magazine writing, and more). Students come together after these two-course specializations to work in small teams in a common capstone that emphasizes advanced project work.

Sports and Media
While still having roots in traditional journalism, this curriculum has an emphasis on sports-related coursework across the college's departments. Students are prepared for a variety of careers in sports media. Students are required to do an internship in this curriculum, which can serve as a capstone experience.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply basic numerical and statistical concepts used by journalists.

Critical Thinking

2. Conduct research and evaluation information that is accessible through advanced database and public records.
3. Demonstrate reporting skills that reflect a diverse and pluralistic society.
4. Understand and apply the principles and laws of freedom of speech and press.

Communication

5. Write correctly and clearly in forms and styles appropriate for the journalism and communications professions and audiences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
MMC 2604		I	I	I	
MMC 2121					I
MMC 2450	I				
VIC 3001			R		
JOU 3101	R	R	R	R	R
JOU 3110		A			
JOU 3346	A	R	A		A
JOU 4950	R	R	R	R	R
MMC 4200				A	

Assessment Types

- Exams
- Story Evaluation

Journalism | Sports and Media

The Department of Journalism consistently ranks among the best journalism programs in the country. It is housed in a college professionally accredited by the Accrediting Council for Education in Journalism and Mass Communication. The department's mission is to teach the art and craft of journalism and to foster an appreciation for accuracy, fairness, truth, and diversity.

About this Program

- **College:** Journalism and Communications (p. 447)
- **Degree:** Bachelor of Science in Journalism
- **Specializations:** Journalism (p. 461) | Sports and Media (p. 466)
- **Credits for Degree:** 124
- **Contact:** Email (jouasst@jou.ufl.edu) | 352.392.0500 | 2070 Weimer Hall (http://campusmap.ufl.edu/?loc=0030)

- **Additional Information**
- **Related Journalism Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The courses enable students to develop their storytelling talent - in words or visuals - and prepare them for careers in all kinds of media professions, including as writers, photographers, editor designers, multimedia storytellers, and more. The flexible curriculum allows students to work in all kinds of traditional and new media platforms. Excellent writing skills are essential. Graduates of the program work with major journalism and media companies and have won prolific honors, including the Pulitzer Prize.

In this curriculum, core courses offer students foundational skills and professional electives and capstones allow students to develop strengths and specialization in one or more areas.

Equipment Requirement

All students who major in journalism are required to own a Mac laptop computer with the appropriate software, a digital audio recorder and a digital camera.
More Info (http://www.jou.ufl.edu/academics/bachelors/journalism/equipment-requirement)

Related Journalism Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Sports and Media

The Sports and Media specialization in Journalism teaches students to be skilled in multiples areas of sports media and communications. Students will learn strategies and skills in reporting, writing, video, audio, social media, and more. Students will engage in critical thinking about current issues and trends in today's sports media—and have multiple opportunities to gain practical and immersive experience in media properties inside and outside of the College of Journalism and Communications.

The Sports and Media specialization is not available for Innovation Academy.

Required Core Coursework: 17 Credits

Code	Title	Credits
MMC 2121	Writing Fundamentals for Communicators [1]	3
MMC 2450	Data Literacy for Communicators [1]	1
JOU 3101	Reporting [1]	3
JOU 3110	Applied Fact Finding [1]	3
JOU 3346L	Multimedia Reporting [1]	3
VIC 3001	Sight, Sound and Motion [1]	4
Total Credits		17

[1] Minimum grades of C are required in all sports and media courses.

Sports and Media Core Coursework: 21 Credits

Code	Title	Credits
JOU 4313C	Sports Reporting [1]	3
or RTV 3593	Multimedia Sports Reporting	
MMC 3210	Sports Media Law and Ethics [1]	3
or MMC 4200	Law of Mass Communication	
MMC 3703	Sports Media and Society [1]	3
PUR 3463	Sports Communication [1]	3
RTV XXXX	Intro to Sports Production [1]	3
RTV XXXX	Sports Capstone [1]	3
JOU 4930	Special Study in Journalism [1]	3
Total Credits		21

[1] Minimum grades of C are required in all sports and media courses.

Professional Electives: 14 Credits

Any other course taken in the College of Journalism and Communications

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090401&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical tracking courses: MMC 2450, ENC 1102, STA 2023, ECO 2013, JOU 3110
- 2.0 GPA on all work at all institutions

Semester 2

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete all critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
AMH 2020	United States Since 1877 (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23)) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities) [1]	3
MMC 2450	Data Literacy for Communicators (**Critical Tracking**) [1]	1
Select one:		3
THE 2000	Theatre Appreciation (State Core Gen Ed Humanities with Diversity (p. 23))	
ARH 2000	Art Appreciation: American Diversity and Global Arts (State Core Gen Ed Humanities with Diversity (p. 23))	
State Core Gen Ed Mathematics (p. 23) [1]		3
	Credits	16
Semester Two		
ENC 1102	Argument and Persuasion (**Critical Tracking**) [1]	3
MMC 2121	Writing Fundamentals for Communicators [1]	3
MUL 2010	Experiencing Music (Gen Ed Humanities with International)	3
VIC 3001	Sight, Sound and Motion [1]	4
State Core Gen Ed Biological or Physical Sciences (p. 23) [1]		3
	Credits	16
Semester Three		
Select one:		3
CPO 2001	Comparative Politics	
INR 2001	Introduction to International Relations	
POS 2112	American State and Local Government (preferred; Gen Ed Social and Behavioral Sciences)	
JOU 3101	Reporting [1]	3

Select one:		3
SPC 2608	Introduction to Public Speaking [1]	
ORI 2000	Oral Performance of Literature 1 [1]	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics) [1]	3
Gen Ed Biological or Physical Sciences [1]		3
Select one:		3
Foreign language [1]		
Quantitative option		
	Credits	18
Semester Four		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
JOU 3110	Applied Fact Finding (**Critical Tracking**)	3
POS 2041	American Federal Government (Gen Ed Social and Behavioral Sciences)	3
Professional electives [1]		3
Select one:		3
Foreign language [1]		
Quantitative option		
	Credits	16
Semester Five		
JOU 3346L	Multimedia Reporting	3
MMC 3703	Sports Media and Society [1]	3
Outside concentration		3
Professional electives [1]		5
	Credits	14
Semester Six		
MMC 3210 or MMC 4200	Sports Media Law and Ethics or Law of Mass Communication	3
PUR 3463	Sports Communication [1]	3
Outside concentration		3
Professional electives [1]		6
	Credits	15
Semester Seven		
JOU 4313C or RTV 3593	Sports Reporting [1] or Multimedia Sports Reporting	3
RTV 3502C	Introduction to Sports Production	3
Elective (outside college)		3
English elective (Writing Requirement: 6,000 words) [1]		3
Outside concentration [1]		3
	Credits	15
Semester Eight		
JOU 4930	Special Study in Journalism	3
RTV 4959C	Sports Capstone	3
Electives (outside college)		5
Outside concentration		3
	Credits	14
	Total Credits	124

[1] Minimum grade of C required.

For semesters 7-8, students must complete two professional courses.

Professional Electives | 14 Credits

Minimum grade of C required in these courses

Code	Title	Credits
JOU 3110	Applied Fact Finding	3
JOU 3184	Beat Reporting	3
JOU 3212	Magazine Design	3
JOU 3213	Design	3
JOU 3305	Data Journalism	3
JOU 3601	Photographic Journalism	3

JOU 3920	Professional Practice	1
JOU 4004	History of Journalism	3
JOU 4301	Literary Journalism	3
JOU 4308	Magazine and Feature Writing	3
JOU 4342	Reporting and Writing for Online Media	3
JOU 4510	Magazine Management and Publication	3
JOU 4603	Specialized Journalistic Photography	3
JOU 4604	Advanced Photographic Journalism 1	3
JOU 4905	Individual Problems in Journalism	1-3
JOU 4930	Special Study in Journalism	1-3
JOU 4940	Journalism Internship	1-3
MMC 3030	Personal Branding for Communicators	1
MMC 3260	Communications on the Internet	3
MMC 3614	Media and Politics	3
MMC 4302	World Communication Systems	3
MMC 4341L	Advanced Online Media Production	3
PGY 3610	Survey of Photojournalism	2
RTV 3405	Media and Society	3
RTV 3411	Race, Gender, Class and the Media	3

Up to six credits of professional internship credit may count toward graduation.

Academic Learning Compact

The journalism curriculum provides a foundation in reporting, writing, numeracy, the use of public records, First Amendment/media law, history of media, and storytelling in a variety of platforms. Specialized coursework is offered in a variety of subjects, and the curriculum is designed to allow flexibility for faculty to develop curriculum in evolving areas (such is the case for the robust development of courses in data journalism and coding, both areas that did not exist several years ago).

Skills developed are applicable to traditional platforms of journalism, as well as new, hybrid, or non-traditional forms of media. Learning outcomes prepare students for the challenges of culturally diverse and technologically changing marketplaces.

The department has two specializations:

Journalism

Students learn base skills required for journalism- and journalism-related careers. Students gain a foundation in reporting, writing, public records, and more, and they all develop a two-course specialization in their area of interest (such as photojournalism, coding, data journalism, specialized reporting, magazine writing, and more). Students come together after these two-course specializations to work in small teams in a common capstone that emphasizes advanced project work.

Sports and Media

While still having roots in traditional journalism, this curriculum has an emphasis on sports-related coursework across the college's departments. Students are prepared for a variety of careers in sports media. Students are required to do an internship in this curriculum, which can serve as a capstone experience.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply basic numerical and statistical concepts used by journalists.

Critical Thinking

2. Conduct research and evaluation information that is accessible through advanced database and public records.
3. Demonstrate reporting skills that reflect a diverse and pluralistic society.
4. Understand and apply the principles and laws of freedom of speech and press.

Communication

5. Write correctly and clearly in forms and styles appropriate for the journalism and communications professions and audiences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
MMC 2604		I	I	I	
MMC 2121					I
MMC 2450	I				
VIC 3001			R		
JOU 3101	R	R	R	R	R
JOU 3110		A			
JOU 3346	A	R	A		A
JOU 4950	R	R	R	R	R
MMC 4200				A	

Assessment Types

- Exams
- Story Evaluation

Mass Communication Studies Minor

With a focus on accuracy, fairness, truth and diversity, preparing leaders in digital and traditional communication fields, the College of Journalism and Communications has consistently been ranked among the top 10 communication programs in the nation and has a long tradition of producing award-winning students. The College of Journalism and Communications prepares students for a career that emphasizes ethical principles and responsible communication in the digital age.

Contact

2096 Weimer Hall
P.O. Box 118400
University of Florida
Gainesville, FL 32611-8400
352.392.0466

Map (http://campusmap.ufl.edu/?loc=0030) More Info (http://www.jou.ufl.edu)

Academic Advising
1060 Weimer Hall
352.392.1124
Email (advising@jou.ufl.edu)

About this Program

- **College:** Journalism and Communications (p. 447)
- **Credits:** 15 | Completed with minimum grades of C and no S-U
- **Contact:** 1060 Weimer Hall (http://campusmap.ufl.edu/?loc=0030)
- **Related Mass Communication Studies Programs**

This minor is not open to College of Journalism and Communications majors.

Applicants must have a minimum cumulative 3.0 GPA and receive approval of their college's dean before obtaining Journalism and Communications college approval in 1000 Weimer Hall (http://campusmap.ufl.edu/?loc=0030).

Nine of the required 15 credits must be completed at UF.

Required Courses

Code	Title	Credits
Primary courses		12
Additional course		3
Total Credits		15

Approved Electives

Primary Courses

Code	Title	Credits
ADV 3008	Principles of Advertising	3
MMC 2604	Mass Media and You	3
PUR 3000	Principles of Public Relations	3
RTV 3001	Introduction to Media Industries and Professions	3
RTV 3405	Media and Society	3
CJC study abroad course		3

Additional Courses

Code	Title	Credits
ADV 3500	Digital Insights	3
JOU 4004	History of Journalism	3
PUR 3500	Public Relations Research	3
MMC 3420	Consumer and Audience Analytics	3
MMC 3702	Rock 'N Roll and American Society Part 1	3
CJC study abroad course		3

Related Mass Communication Studies Programs

- Mass Communication Studies minor, UF Online (p. 472)

Mass Communication Studies Minor UF Online

With a focus on accuracy, fairness, truth and diversity, preparing leaders in digital and traditional communication fields, the College of Journalism and Communications has consistently been ranked among the top 10 communication programs in the nation and has a long tradition of producing award-winning students. The College of Journalism and Communications prepares students for a career that emphasizes ethical principles and responsible communication in the digital age.

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Academic Advising
1060 Weimer Hall
352.392.1124
Email (advising@jou.ufl.edu)

About this Program

- **College:** Journalism and Communications (p. 447)
- **Credits:** 15 | Completed with minimum grades of C and no S-U
- **Contact:** 1.855.99GATOR | 1060 Weimer Hall (http://campusmap.ufl.edu/?loc=0030)
- **Related Mass Communication Studies Programs**

This minor is not open to College of Journalism and Communications majors.

Applicants must have a minimum cumulative 3.0 GPA and receive approval of their college's dean before obtaining Journalism and Communications college approval in 1000 Weimer Hall (http://campusmap.ufl.edu/?loc=0030).

Nine of the required 15 credits must be completed at UF.

Required Courses

Code	Title	Credits
Select four:		12
ADV 3008	Principles of Advertising	
MMC 2604	Mass Media and You	
PUR 3000	Principles of Public Relations	
RTV 3001	Introduction to Media Industries and Professions	
RTV 3405	Media and Society	
CJC study abroad course		
Approved elective		3
Total Credits		15

Approved Electives

Code	Title	Credits
ADV 3500	Digital Insights	3
JOU 4004	History of Journalism	3
MMC 3420	Consumer and Audience Analytics	3
MMC 3702	Rock 'N Roll and American Society Part 1	3
PUR 3500	Public Relations Research	3
CJC study abroad course		3

Related Mass Communication Studies Programs

- Mass Communication Studies minor, on campus (p. 471)

Public Relations

Public relations is designed to prepare students for entry-level jobs as technicians, such as producing social media strategies and tactics or effective multimedia news releases, as well as for career advancement as managers, such as formulating a communication plan for a new initiative or forecasting the reputational impact of an organizational decision or action. Excellent writing and critical thinking skills are essential.

About this Program

- **College:** Journalism and Communications (p. 447)
- **Degree:** Bachelor of Science in Public Relations
- **Credits for Degree:** 124
- **Additional Information**
- **Related Public Relations Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The public relations curriculum is one of the most in-depth curricula in the country, with a balance between skills and conceptual courses. The Department of Public Relations consistently ranks among the top public relations education programs in the United States, and it is among the largest programs in terms of the number of faculty and students, including one of the largest chapters of the Public Relations Student Society of America. The program is housed in a college accredited by the Accrediting Council for Education in Journalism and Mass Communication.

Graduates of the program are well-prepared for careers as public relations practitioners in businesses, public relations firms, government agencies and nonprofit organizations, nationally and internationally. Their education makes them attractive candidates for graduate degree programs (master's and Ph. D.) ranging from public relations to business and international relations.

Certificate in International Communication

Students may pursue a certificate in international communication, which is designed to prepare students for career advancement and development. Courses emphasize the impact of internationalization and globalization on communication across disciplines.

Coursework for the Major

Required Core Coursework

Code	Title	Credits
ENC 3254	Professional Writing in the Discipline [1]	3
JOU 3101	Reporting [1]	3
MMC 1009	Introduction to Media and Communications [1]	1
MMC 2121	Writing Fundamentals for Communicators [1]	3
MMC 3420	Consumer and Audience Analytics [1]	3
MMC 4200	Law of Mass Communication	3
PUR 3000	Principles of Public Relations [1]	3
PUR 3500	Public Relations Research [1]	3
PUR 3801	Public Relations Strategy [1]	3
PUR 4100	Public Relations Writing [1]	4
PUR 4404C	International Public Relations [1]	3
PUR 4800	Public Relations Campaigns [1]	3
VIC 3001	Sight, Sound and Motion [1]	4
Professional electives		16
Total Credits		55

[1] Minimum grade of C required.

Equipment Requirement

All students who major in public relations are required to own a MAC laptop computer outfitted with the appropriate software, a digital recorder and a digital camera.
More Info (http://www.jou.ufl.edu/academics/bachelors/journalism/equipment-requirement)

Related Public Relations Programs

- Bachelor of Science in Public Relations, UF Online (p. 477)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090902&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses: ENC 1102, ECO 2013, MMC 1009, PUR 3000, and STA 2023.
- 2.0 GPA on all work at all institutions
- 2.0 GPA on all work at all institutions

Semester 2

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete all additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 5

- 2.5 GPA on all work at all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
AMH 2020	United States Since 1877 (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
Select one:		3
CPO 2001	Comparative Politics	
INR 2001	Introduction to International Relations	
POS 2112	American State and Local Government	
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23)) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MMC 1009	Introduction to Media and Communications (**Critical Tracking**)	1
State Core Gen Ed Mathematics, pure math (p. 23) [1]		3
	Credits	16
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences) [1]	4
ENC 1102	Argument and Persuasion (**Critical Tracking**; Gen Ed Composition) [1]	3
POS 2041	American Federal Government (Gen Ed Social and Behavioral Sciences)	3
or PSY 2012	or General Psychology	
Select one:		3
THE 2000	Theatre Appreciation [1]	
ARH 2000	Art Appreciation: American Diversity and Global Arts (State Core Gen Ed Humanities with Diversity (p. 23)) [1]	
State Core Gen Ed Biological or Physical Sciences (p. 23) [1]		3
	Credits	16
Semester Three		
MUL 2010	Experiencing Music (Gen Ed Humanities with International) [1]	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics) [1]	3
VIC 3001	Sight, Sound and Motion [1]	4
Gen Ed Biological or Physical Sciences [1]		3
Select one:		3
Foreign language [1]		
Quantitative option		
	Credits	16
Semester Four		
ENC 3254	Professional Writing in the Discipline [1]	3
MMC 2121	Writing Fundamentals for Communicators [1]	3
PUR 3000	Principles of Public Relations (**Critical Tracking**) [1]	3
Select one:		3
Foreign language [1]		
Quantitative option		
Gen Ed Social and Behavioral Sciences [1]		3
	Credits	15
Semester Five		
JOU 3101	Reporting [1]	3
PUR 3500	Public Relations Research [1]	3
Select one:		3
SPC 2608	Introduction to Public Speaking	
ORI 2000	Oral Performance of Literature 1 [1]	
Professional elective		3
Outside concentration course		3
	Credits	15

Semester Six		
MMC 3420	Consumer and Audience Analytics [1]	3
PUR 3801	Public Relations Strategy [1]	3
Elective (outside college)		2
Outside concentration course		3
Professional electives		6
	Credits	17
Semester Seven		
MMC 4200	Law of Mass Communication	3
PUR 4100	Public Relations Writing [1]	4
PUR 4404C	International Public Relations [1]	3
Professional elective		1
Block 2 professional elective or internship [2]		3
	Credits	14
Semester Eight		
PUR 4800	Public Relations Campaigns [1]	3
Elective (outside college)		3
Outside concentration credits		6
Professional elective		3
	Credits	15
	Total Credits	124

[1] Minimum grade of C required.

[2] Up to six credits in Block 2 may count toward graduation.

For semesters 7-8, students must complete two professional courses.

Professional Electives

Block 1 | Select 10 Credits

Code	Title	Credits
ADV 3008	Principles of Advertising	3
ADV 4400	International and Cross Cultural Advertising	3
JOU 4308	Magazine and Feature Writing	3
MMC 3260	Communications on the Internet	3
PGY 3610	Survey of Photojournalism	2
PUR 3463	Sports Communication	3
PUR 3622	Social Media Management	3
PUR 4203	Ethics and Professional Responsibility in Public Relations	3
PUR 4410	Principles of Fund Raising	3
PUR 4442	Public Interest Communications	3
PUR 4932	Special Study (Rotating topics; prerequisites vary)	1-3
RTV 3001	Introduction to Media Industries and Professions	3

Block 2 | Select 3 Credits

Code	Title	Credits
PUR 4905	Individual Problems	1-3
or PUR 4912	Public Relations Undergraduate Research	
PUR 4940	Public Relations Internship	1-3
PUR/MMC 6000-level graduate courses		3
RTV 3101	Advanced Writing for Electronic Media	3

Up to six credits of professional internship credit may count toward graduation.

Academic Learning Compact

The major in public relations enables students to develop the knowledge and skills, including analytical and communication skills, necessary for the effective practice of public relations. Students will learn public relations principles, perspectives for understanding and communicating with targeted and diverse publics and a systematic process for problem solving that emphasizes programming based on formative and evaluative research. Special attention is paid to writing skills and students will acquire the ability to write correctly and clearly in forms and styles appropriate for public relations

practice. They will learn to use tools and relevant technologies, including new media, and students will also develop an understanding of ethical principles, including the importance of truth and accuracy, which guide public relations practice.

Before Graduating Students Must

- Achieve a passing score of 70% or higher on a major individual project (e.g., media kit) developed in PUR 4100 Public Relations Writing and evaluated by the class instructor.
- Achieve a passing score of 70% or higher on a comprehensive campaign plan for an organizational client, developed in the major's capstone course, PUR 4800 Public Relations Campaigns, and evaluated by the class instructor.
- Achieve a satisfactory rating on four of the five SLOs on a standardized evaluation completed by internship supervisors as part of PUR 4940 Public Relations Internship.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and discuss concepts and theories relevant to effective public relations practice.
2. Describe the history and role of professionals and institutions in shaping public relations practice.
3. Display professional ethical principles and exemplify the values of truth, honesty, accuracy, fairness and diversity.
4. Appropriately apply tools and technologies relevant to public relations practice.

Critical Thinking

5. Gather information and conduct research for public relations planning and evaluation.
6. Appropriately apply basic numerical and statistical concepts for public relations planning and evaluation.
7. Creatively and independently analyze public relations problems.

Communication

8. Write correctly and clearly in forms and styles appropriate for public relations practice.
9. Select and use images and information for public relations practice.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9
JOU 3101			R					R	
JOU 3109C				I				I	I
PUR 3000	I	I	I		I	I	I		
PUR 3500		R			R	R			
PUR 3801	R						R		
PUR 4100			A	R				A	R
PUR 4103									A
PUR 4800 Capstone	A	A	A	A	A	A	A		

Assessment Types

- Projects
- Exams
- Presentations

Public Relations UF Online

Public relations is designed to prepare students for entry-level jobs as technicians, such as producing social media strategies and tactics or effective multimedia news releases, as well as for career advancement as managers, such as formulating a communication plan for a new initiative or forecasting the reputational impact of an organizational decision or action. Excellent writing and critical thinking skills are essential.

About this Program

- **College:** Journalism and Communications (p. 447)
- **Degree:** Bachelor of Science in Public Relations
- **Credits for Degree:** 124
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Public Relations Programs**

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Graduates of the program are well-prepared for careers as public relations practitioners in businesses, public relations firms, government agencies and nonprofit organizations, nationally and internationally. Their education makes them attractive candidates for graduate degree programs (master's and Ph. D.) ranging from public relations to business and international relations.

Coursework for the Major

Required Core Coursework

Code	Title	Credits
ENC 3254	Professional Writing in the Discipline [1]	3
JOU 3101	Reporting [1]	3
MMC 1009	Introduction to Media and Communications [1]	1
MMC 2121	Writing Fundamentals for Communicators [1]	3
MMC 3420	Consumer and Audience Analytics [1]	3
MMC 4200	Law of Mass Communication	3
PUR 3000	Principles of Public Relations [1]	3
PUR 3500	Public Relations Research [1]	3
PUR 3801	Public Relations Strategy [1]	3
PUR 4100	Public Relations Writing [1]	4
PUR 4404C	International Public Relations [1]	3
PUR 4800	Public Relations Campaigns [1]	3
VIC 3001	Sight, Sound and Motion [1]	4
Professional electives		16
Total Credits		55

[1] Minimum grade of C required.

Equipment requirement

All students who major in public relations are required to own a MAC laptop computer outfitted with the appropriate software, a digital recorder and a digital camera.
More Info (http://www.jou.ufl.edu/academics/bachelors/journalism/equipment-requirement)

Related Public Relations Programs

- Bachelor of Science in Public Relations, on campus (p. 473)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090902&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses: ENC 1102, ECO 2013, MMC 1009, PUR 3000, and STA 2023.
- 2.0 GPA on all work at all institutions
- 2.0 GPA on all work at all institutions

Semester 2

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete all additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 5

- 2.5 GPA on all work at all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
AMH 2020	United States Since 1877 (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
Select one:		3
CPO 2001	Comparative Politics	
INR 2001	Introduction to International Relations	
POS 2112	American State and Local Government	
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23)) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MMC 1009	Introduction to Media and Communications (**Critical Tracking**)	1
State Core Gen Ed Mathematics, pure math (p. 23) [1]		3
	Credits	16
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences) [1]	4
ENC 1102	Argument and Persuasion (**Critical Tracking**; Gen Ed Composition) [1]	3
POS 2041 or PSY 2012	American Federal Government (Gen Ed Social and Behavioral Sciences) or General Psychology	3
Select one:		3
THE 2000	Theatre Appreciation [1]	
ARH 2000	Art Appreciation: American Diversity and Global Arts (State Core Gen Ed Humanities with Diversity (p. 23)) [1]	
State Core Gen Ed Biological or Physical Sciences (p. 23) [1]		3
	Credits	16
Semester Three		
MUL 2010	Experiencing Music (Gen Ed Humanities with International) [1]	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics) [1]	3
VIC 3001	Sight, Sound and Motion [1]	4
Gen Ed Biological or Physical Sciences [1]		3

Select one:		3
Foreign language [1]		
Quantitative option		
	Credits	16
Semester Four		
ENC 3254	Professional Writing in the Discipline [1]	3
MMC 2121	Writing Fundamentals for Communicators [1]	3
PUR 3000	Principles of Public Relations (**Critical Tracking**) [1]	3
Select one:		3
Foreign language [1]		
Quantitative option		
Gen Ed Social and Behavioral Sciences [1]		3
	Credits	15
Semester Five		
JOU 3101	Reporting [1]	3
PUR 3500	Public Relations Research [1]	3
Select one:		3
SPC 2608	Introduction to Public Speaking	
ORI 2000	Oral Performance of Literature 1 [1]	
Professional elective		3
Outside concentration course		3
	Credits	15
Semester Six		
MMC 3420	Consumer and Audience Analytics [1]	3
PUR 3801	Public Relations Strategy [1]	3
Elective (outside college)		2
Outside concentration course		3
Professional electives		6
	Credits	17
Semester Seven		
MMC 4200	Law of Mass Communication	3
PUR 4100	Public Relations Writing [1]	4
PUR 4404C	International Public Relations [1]	3
Professional elective		1
Block 2 professional elective or internship [2]		3
	Credits	14
Semester Eight		
PUR 4800	Public Relations Campaigns [1]	3
Elective (outside college)		3
Outside concentration credits		6
Professional elective		3
	Credits	15
	Total Credits	124

[1] Minimum grade of C required.

[2] Up to six credits in Block 2 may count toward graduation.

For semesters 7-8, students must complete two professional courses.

Professional Electives

Block 1 | Select 10 Credits

Code	Title	Credits
ADV 3008	Principles of Advertising	3
ADV 4400	International and Cross Cultural Advertising	3
JOU 4308	Magazine and Feature Writing	3
MMC 3260	Communications on the Internet	3
PGY 3610	Survey of Photojournalism	2
PUR 3463	Sports Communication	3
PUR 3622	Social Media Management	3
PUR 4203	Ethics and Professional Responsibility in Public Relations	3

PUR 4410	Principles of Fund Raising	3
PUR 4442	Public Interest Communications	3
PUR 4932	Special Study (Rotating topics; prerequisites vary)	1-3
RTV 3001	Introduction to Media Industries and Professions	3

Block 2 | Select 3 Credits

Code	Title	Credits
PUR 4905	Individual Problems	1-3
or PUR 4912	Public Relations Undergraduate Research	
PUR 4940	Public Relations Internship	1-3
PUR/MMC 6000-level graduate courses		3
RTV 3101	Advanced Writing for Electronic Media	3

Up to six credits of professional internship credit may count toward graduation.

Academic Learning Compact

The major in public relations enables students to develop the knowledge and skills, including analytical and communication skills, necessary for the effective practice of public relations. Students will learn public relations principles, perspectives for understanding and communicating with targeted and diverse publics and a systematic process for problem solving that emphasizes programming based on formative and evaluative research. Special attention is paid to writing skills and students will acquire the ability to write correctly and clearly in forms and styles appropriate for public relations practice. They will learn to use tools and relevant technologies, including new media, and students will also develop an understanding of ethical principles, including the importance of truth and accuracy, which guide public relations practice.

Before Graduating Students Must

- Achieve a passing score of 70% or higher on a major individual project (e.g., media kit) developed in PUR 4100 Public Relations Writing and evaluated by the class instructor.
- Achieve a passing score of 70% or higher on a comprehensive campaign plan for an organizational client, developed in the major's capstone course, PUR 4800 Public Relations Campaigns, and evaluated by the class instructor.
- Achieve a satisfactory rating on four of the five SLOs on a standardized evaluation completed by internship supervisors as part of PUR 4940 Public Relations Internship.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and discuss concepts and theories relevant to effective public relations practice.
2. Describe the history and role of professionals and institutions in shaping public relations practice.
3. Display professional ethical principles and exemplify the values of truth, honesty, accuracy, fairness and diversity.
4. Appropriately apply tools and technologies relevant to public relations practice.

Critical Thinking

5. Gather information and conduct research for public relations planning and evaluation.
6. Appropriately apply basic numerical and statistical concepts for public relations planning and evaluation.
7. Creatively and independently analyze public relations problems.

Communication

8. Write correctly and clearly in forms and styles appropriate for public relations practice.
9. Select and use images and information for public relations practice.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9
JOU 3101			R					R	
JOU 3109C				I				I	I
PUR 3000	I	I	I		I	I	I		
PUR 3500		R			R	R			
PUR 3801	R						R		

PUR 4100			A	R					A	R
PUR 4103										A
PUR 4800 Capstone	A	A	A	A	A	A	A			

Assessment Types

- Projects
- Exams
- Presentations

Telecommunication

The Department of Telecommunication consistently ranks among the top five in the United States and is accredited by the Accrediting Council for Education in Journalism and Mass Communication.

About this Program

- **College:** Journalism and Communications (p. 447)
- **Degree:** Bachelor of Science in Telecommunication
- **Specializations:** Digital Film and Television Production (p. 498) | Management and Strategy (p. 484) | Media and Society (p. 488) | News (p. 493)
- **Credits for Degree:** 124
- **Contact**
- **Additional Information**
- **Related Telecommunication Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Management and Strategy

Prepares students to enter the profession through positions in research, sales, and marketing and promotion.

News

Prepares students for careers as reporters and anchors, or as producers who are responsible for news programs behind-the-scenes. Entry into the broadcast news sequence is limited to students in the Department of Telecommunication who have placed in a competitive entrance exam. Contact the department office to determine when the exam is given.

Digital Film and Television Production

Prepares students for careers in program creation, writing and the creative applications of video and audio technology.

Media and Society

Focuses on the theories, methods and techniques used to play, produce and distribute audio and video programs and messages; personnel and facilities management; marketing and distribution; media regulations, law and policy; and principles of broadcast technology. It prepares individuals to work in media organizations and those organizations that use electronic media, such as political campaigns, government, education and business.

Students can also use the communication skills they acquire to pursue graduate degrees. Students majoring in telecommunication participate in the university's six broadcast stations, other on campus facilities such as the Gator Network and elective internships throughout the world.

Related Telecommunication Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Telecommunication, Media and Society, UF Online (p. 502)

Academic Learning Compact

The major in telecommunication, which includes specializations in management, media and society, news, and digital film and television production, prepares students to understand the means of communicating with diverse audiences and to use the tools of information gathering and storytelling to communicate with those audiences through electronic media such as video, audio and interactive technologies. Through study and practical

application, students gain knowledge of the history, norms and legal and ethical milieu of the telecommunication professions. Students learn to locate and use reference tools and to demonstrate the ability to communicate independent, critical perspectives.

Before Graduating Students Must

- Achieve a passing score of 70% on your student portfolio, which will be evaluated by faculty members and/or professionals in each specialty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe or apply concepts and theories in the use and presentation of content.
2. Identify, describe or apply professional ethical principles and the importance of truth, accuracy, fairness and diversity.
3. Identify, describe or apply the tools and technologies appropriate for the telecommunication professions.

Critical Thinking

4. Gather information, conduct research and evaluate information by methods appropriate to the telecommunication professions.
5. Produce appropriate output that demonstrates creativity and critical thinking, independently or collaboratively.

Communication

6. Communicate effectively in forms and styles appropriate to the telecommunication professions, audiences and the purposes they serve.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
All Specializations						
RTV 2100	I	I	I	I	I	I
RTV 3001	I	I	I	I		
RTV 3101	R	R	R	R	R	R
RTV 3280		R		R		
RTV 3303	I	I	I	I		I
RTV 3305	R	R	R	R	R	R
RTV 3320	R	R	R	R	R	R
RTV 3405		I		I		
RTV 4301	R		R		R	R
RTV 4432		R, A		R, A		
RTV 4500	R	R	R	R	R	R
RTV 4506	R	R	R	R	R	R
RTV 4700		R		R	R	
Management Specialization						
RTV 4800	R, A		R, A		R, A	R, A
Media and Society Specialization						
RTV 4905	R, A		R, A		R, A	R, A
News Specialization						
RTV 3304	R, A		R, A		R, A	R, A
Digital Film and Television Production Specialization						
RTV 4929C	R, A		R, A		R, A	R, A

Assessment Types

- Policy memo and exam in addition to:
  - **Management**: written and oral presentation of a strategic plan developed for a client
  - **Media and Society**: written final project
  - **News**: portfolio of two radio or television news stories produced in RTV 3304
  - **Digital Film and Television Production:** final video project

Telecommunication | Management and Strategy

The Department of Telecommunication consistently ranks among the top five in the United States and is accredited by the Accrediting Council for Education in Journalism and Mass Communication.

About this Program

- **College:** Journalism and Communications (p. 447)
- **Degree:** Bachelor of Science in Telecommunication
- **Specializations:** Digital Film and Television Production (p. 498) | Management and Strategy (p. 484) | Media and Society (p. 488) | News (p. 493)
- **Credits for Degree:** 124
- **Contact**
- **Additional Information**
- **Related Telecommunication Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Management and Strategy

Prepares students to enter the profession through positions in research, sales, and marketing and promotion.

News

Prepares students for careers as reporters and anchors, or as producers who are responsible for news programs behind-the-scenes. Entry into the broadcast news sequence is limited to students in the Department of Telecommunication who have placed in a competitive entrance exam. Contact the department office to determine when the exam is given.

Digital Film and Television Production

Prepares students for careers in program creation, writing and the creative applications of video and audio technology.

Media and Society

Focuses on the theories, methods and techniques used to play, produce and distribute audio and video programs and messages; personnel and facilities management; marketing and distribution; media regulations, law and policy; and principles of broadcast technology. It prepares individuals to work in media organizations and those organizations that use electronic media, such as political campaigns, government, education and business.

Students can also use the communication skills they acquire to pursue graduate degrees. Students majoring in telecommunication participate in the university's six broadcast stations, other on campus facilities such as the Gator Network and elective internships throughout the world.

Related Telecommunication Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Telecommunication, Media and Society, UF Online (p. 502)

Management and Strategy

Coursework

Code	Title	Credits
Required Core Coursework		
ADV 3008	Principles of Advertising	3
ENC 3254	Professional Writing in the Discipline [1]	3
JOU 3002	Understanding Audiences	3
MMC 1009	Introduction to Media and Communications [1]	1
MMC 2121	Writing Fundamentals for Communicators [1]	3

MMC 3203	Ethics and Problems in Mass Communications [1]	3
or RTV 4432	Ethics and Problems in Telecommunication	
RTV 2100	Writing for Electronic Media [1]	3
RTV 3001	Introduction to Media Industries and Professions	3
RTV 3405	Media and Society	3
RTV 4500	Telecommunication Programming	3
RTV 4506	Telecommunication Research	3
or MMC 3420	Consumer and Audience Analytics	
RTV 4700	Telecommunication Law and Regulation	3
RTV 4800	Telecommunication Planning and Operations (Spring Only)	3
VIC 3001	Sight, Sound and Motion [1]	4
Operations Block		
Select two: [2]		6
MMC 3420	Consumer and Audience Analytics	
RTV 4420	New Media Systems [1]	
RTV 4506	Telecommunication Research (Fall Only) [1]	
RTV 4590	Digital Games in Communications	
RTV 4591	Applications of Mobile Technology	
RTV 4811	Innovation in Media	
RTV 4910	Telecommunication Undergraduate Research (with approval)	
RTV 4930	Special Study in Telecommunication (with approval)	
Electives		
Electives inside college		8
Total Credits		55

[1] Minimum grade of C required

[2] Courses cannot be used to fulfill other requirements

Critical Tracking

Note that critical tracking is the same for all specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090701&track=01) may be used for transfer students.

Semester 1

- Complete critical-tracking course STA 2023 or ENC 1101
- 2.0 GPA on all work at all institutions

Semester 2

- Complete 2 of 5 critical-tracking courses: ENC 1101, ECO 2013, MMC 1009, RTV 2100 (MMC 2100 can be substituted for RTV 2100), RTV 3001
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 5

- Complete all critical-tracking courses

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
AMH 2020	United States Since 1877 (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
ENC 1101	Expository and Argumentative Writing (**Critical Tracking**; State Core Gen Ed Composition) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	3
State Core Gen Ed Physical or Behavioral Sciences (p. 23) [1]		3
	Credits	15
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities with International (p. 23))	3
Select one:		3
THE 2000	Theatre Appreciation (Gen Ed Humanities with Diversity)	
ARH 2000	Art Appreciation: American Diversity and Global Arts (Gen Ed Humanities with Diversity)	
ENC 1102	Argument and Persuasion (Gen Ed Composition; recommended elective) [1]	3
Gen Ed Mathematics [1]		3
	Credits	16
Semester Three		
ENC 3254	Professional Writing in the Discipline [1]	3
MMC 1009	Introduction to Media and Communications (**Critical Tracking**) [1]	1
MMC 2121	Writing Fundamentals for Communicators [1]	3
RTV 3001	Introduction to Media Industries and Professions (**Critical Tracking**) [1]	3
Foreign language or Quantitative option [1]		3
Gen Ed Physical or Biological Sciences [1]		3
	Credits	16
Semester Four		
POS 2041	American Federal Government (Gen Ed Social and Behavioral Sciences)	3
RTV 2100	Writing for Electronic Media (**Critical Tracking**) [1,2]	3
SPC 2608 or ORI 2000	Introduction to Public Speaking [1] or Oral Performance of Literature 1	3
VIC 3001	Sight, Sound and Motion [1]	4
Foreign language or Quantitative option [1]		3
	Credits	16
Semester Five		
JOU 3002	Understanding Audiences	3
ADV 3008	Principles of Advertising	3
RTV 3405	Media and Society	3
Business outside concentration course		4
Elective (outside college)		3
	Credits	16
Semester Six		
SYG 2000 or PSY 2012	Principles of Sociology (Gen Ed Social and Behavioral Sciences) or General Psychology	3
RTV 4500	Telecommunication Programming	3
Electives (inside college)		6
Operations block course 1 [1]		3
	Credits	15
Semester Seven		
RTV 4506 or MMC 3420	Telecommunication Research or Consumer and Audience Analytics	3
RTV 4700	Telecommunication Law and Regulation	3

Business outside concentration course		4
Elective (outside college)		2
Operations block course 2 [1]		3
	Credits	15
Semester Eight		
Select one:		3
POS 2112	American State and Local Government	
INR 2001	Introduction to International Relations	
CPO 2001	Comparative Politics	
RTV 4432	Ethics and Problems in Telecommunication [1]	3
RTV 4800	Telecommunication Planning and Operations	3
Business outside concentration course		4
Elective (inside college)		2
	Credits	15
	Total Credits	124

1 Minimum grade of C required

2 MMC 2100 or JOU 3109C is accepted in lieu of RTV 2100

For semesters 7-8, students must complete two professional courses.

Up to six credits of professional internship credit may count toward graduation. Internships for credit require department approval, and a letter from the internship supervisor outlining duties and contact information. Internship application forms, information, and policies are available on the Department of Telecommunication website.

Academic Learning Compact

The major in telecommunication, which includes specializations in management, media and society, news, and digital film and television production, prepares students to understand the means of communicating with diverse audiences and to use the tools of information gathering and storytelling to communicate with those audiences through electronic media such as video, audio and interactive technologies. Through study and practical application, students gain knowledge of the history, norms and legal and ethical milieu of the telecommunication professions. Students learn to locate and use reference tools and to demonstrate the ability to communicate independent, critical perspectives.

Before Graduating Students Must

- Achieve a passing score of 70% on your student portfolio, which will be evaluated by faculty members and/or professionals in each specialty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe or apply concepts and theories in the use and presentation of content.
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Curriculum Map

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Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
All Specializations						
RTV 2100	I	I	I	I	I	I
RTV 3001	I	I	I	I		
RTV 3101	R	R	R	R	R	R

RTV 3280		R		R		
RTV 3303	I	I	I	I		I
RTV 3305	R	R	R	R	R	R
RTV 3320	R	R	R	R	R	R
RTV 3405		I		I		
RTV 4301	R		R		R	R
RTV 4432		R, A		R, A		
RTV 4500	R	R	R	R	R	R
RTV 4506	R	R	R	R	R	R
RTV 4700		R		R	R	
Management Specialization						
RTV 4800	R, A		R, A		R, A	R, A
Media and Society Specialization						
RTV 4905	R, A		R, A		R, A	R, A
News Specialization						
RTV 3304	R, A		R, A		R, A	R, A
Digital Film and Television Production Specialization						
RTV 4929C	R, A		R, A		R, A	R, A

Assessment Types

- Policy memo and exam in addition to:
  - **Management**: written and oral presentation of a strategic plan developed for a client
  - **Media and Society**: written final project
  - **News**: portfolio of two radio or television news stories produced in RTV 3304
  - **Digital Film and Television Production:** final video project

Telecommunication | Media and Society

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- **Credits for Degree:** 124
- **Contact**
- **Additional Information**
- **Related Telecommunication Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Management and Strategy

Prepares students to enter the profession through positions in research, sales, and marketing and promotion.

News

Prepares students for careers as reporters and anchors, or as producers who are responsible for news programs behind-the-scenes. Entry into the broadcast news sequence is limited to students in the Department of Telecommunication who have placed in a competitive entrance exam. Contact the department office to determine when the exam is given.

Digital Film and Television Production

Prepares students for careers in program creation, writing and the creative applications of video and audio technology.

Media and Society

Focuses on the theories, methods and techniques used to play, produce and distribute audio and video programs and messages; personnel and facilities management; marketing and distribution; media regulations, law and policy; and principles of broadcast technology. It prepares individuals to work in media organizations and those organizations that use electronic media, such as political campaigns, government, education and business.

Students can also use the communication skills they acquire to pursue graduate degrees. Students majoring in telecommunication participate in the university's six broadcast stations, other on campus facilities such as the Gator Network and elective internships throughout the world.

Related Telecommunication Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Telecommunication, Media and Society, UF Online (p. 502)

Media and Society

Coursework

Code	Title	Credits
Required Core Coursework		
ENC 3254	Professional Writing in the Discipline [1]	3
MMC 1009	Introduction to Media and Communications [1]	1
MMC 2121	Writing Fundamentals for Communicators [1]	3
MMC 3203	Ethics and Problems in Mass Communications [1]	3
or RTV 4432	Ethics and Problems in Telecommunication	
RTV 2100	Writing for Electronic Media [1]	3
RTV 3001	Introduction to Media Industries and Professions [1]	3
RTV 3405	Media and Society	3
RTV 4420	New Media Systems	3
RTV 4700	Telecommunication Law and Regulation	3
or MMC 4200	Law of Mass Communication	
VIC 3001	Sight, Sound and Motion [1]	4
Professional electives		8
Specialization Blocks		
Select 9 credits each from two specialization blocks		18
Digital Media Block		
MMC 3260	Communications on the Internet	
MMC 3630	Social Media and Society	
PUR 3622	Social Media Management	
RTV 4591	Applications of Mobile Technology	
Multicultural and Global Communications Block		
ADV 3008	Principles of Advertising	
or PUR 3000	Principles of Public Relations	
ADV 4400	International and Cross Cultural Advertising	
MMC 4302	World Communication Systems	
PUR 4404C	International Public Relations	
Applications of Communication Block		
MMC 3420	Consumer and Audience Analytics	
MMC 3614	Media and Politics	
MMC 3703	Sports Media and Society	
RTV 4500	Telecommunication Programming	
Total Credits		55

[1] Minimum grade of C required

[2] These courses cannot be used to meet other requirements

Students may substitute a 12-credit combined degree program for one block.

Critical Tracking

Note that critical tracking is the same for all specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090701&track=01) may be used for transfer students.

Semester 1

- Complete critical-tracking course STA 2023 or ENC 1101
- 2.0 GPA on all work at all institutions

Semester 2

- Complete 2 of 5 critical-tracking courses: ENC 1101, ECO 2013, MMC 1009, RTV 2100 (MMC 2100 can be substituted for RTV 2100), RTV 3001
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 5

- Complete all critical-tracking courses

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
AMH 2020	United States Since 1877 (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
ENC 1101	Expository and Argumentative Writing (**Critical Tracking**; State Core Gen Ed Composition) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	3
State Core Gen Ed Physical or Behavioral Sciences (p. 23) [1]		3
	Credits	15
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities with International (p. 23))	3
Select one:		3
THE 2000	Theatre Appreciation (Gen Ed Humanities with Diversity)	
ARH 2000	Art Appreciation: American Diversity and Global Arts (Gen Ed Humanities with Diversity)	
ENC 1102	Argument and Persuasion (Gen Ed Composition; recommended elective) [1]	3

Gen Ed Mathematics [1]		3
	Credits	16
Semester Three		
ENC 3254	Professional Writing in the Discipline [1]	3
MMC 1009	Introduction to Media and Communications (**Critical Tracking**) [1]	1
MMC 2121	Writing Fundamentals for Communicators [1]	3
RTV 3001	Introduction to Media Industries and Professions (**Critical Tracking**) [1]	3
Foreign language or Quantitative option [1]		3
Gen Ed Physical or Biological Sciences [1]		3
	Credits	16
Semester Four		
POS 2041	American Federal Government (Gen Ed Social and Behavioral Sciences) [1]	3
RTV 2100	Writing for Electronic Media (**Critical Tracking**) [1,2]	3
SPC 2608 or ORI 2000	Introduction to Public Speaking [1] or Oral Performance of Literature 1	3
VIC 3001	Sight, Sound and Motion [1]	4
Foreign language or Quantitative option [1]		3
	Credits	16
Semester Five		
SYG 2000 or PSY 2012	Principles of Sociology (Gen Ed Social and Behavioral Sciences) or General Psychology	3
RTV 3405	Media and Society	3
Specialization block courses		6
Outside concentration course		3
Quantitative option or general elective		2
	Credits	17
Semester Six		
Specialization block courses		6
Outside concentration course		3
Electives (inside college)		6
	Credits	15
Semester Seven		
MMC 3203 or RTV 4432	Ethics and Problems in Mass Communications [1] or Ethics and Problems in Telecommunication	3
RTV 4700 or MMC 4200	Telecommunication Law and Regulation or Law of Mass Communication	3
Specialization block courses		6
Elective (inside college)		1
Outside concentration course		3
	Credits	16
Semester Eight		
AMH 2010	United States to 1877	3
Select one:		3
POS 2112	American State and Local Government	
CPO 2001	Comparative Politics	
INR 2001	Introduction to International Relations	
RTV 4432	Ethics and Problems in Telecommunication	3
Outside concentration course		3
Elective (inside college)		1
	Credits	13
	Total Credits	124

1 Minimum grade of C required.

2 MMC 2100 or JOU 3109C is accepted in lieu of RTV 2100.

Up to six credits of professional internship credit may count toward graduation. Internships for credit require department approval, and a letter from the internship supervisor outlining the duties and contact information. Internship application forms, information, and policies are available on the Department of Telecommunication website.

Specialization Block Electives

Select 9 credits each from two specialization blocks

Digital Media Block

Code	Title	Credits
MMC 3260	Communications on the Internet	3
MMC 3630	Social Media and Society	3
PUR 3622	Social Media Management	3
RTV 4591	Applications of Mobile Technology	3

Multicultural and Global Communications Block

Code	Title	Credits
ADV 3008	Principles of Advertising	3
or PUR 3000	Principles of Public Relations	
ADV 4400	International and Cross Cultural Advertising	3
MMC 4302	World Communication Systems	3
PUR 4404C	International Public Relations	3

Applications of Communication Block

Code	Title	Credits
MMC 3420	Consumer and Audience Analytics	3
MMC 3614	Media and Politics	3
MMC 3703	Sports Media and Society	3
RTV 4500	Telecommunication Programming	3

Academic Learning Compact

The major in telecommunication, which includes specializations in management, media and society, news, and digital film and television production, prepares students to understand the means of communicating with diverse audiences and to use the tools of information gathering and storytelling to communicate with those audiences through electronic media such as video, audio and interactive technologies. Through study and practical application, students gain knowledge of the history, norms and legal and ethical milieu of the telecommunication professions. Students learn to locate and use reference tools and to demonstrate the ability to communicate independent, critical perspectives.

Before Graduating Students Must

- Achieve a passing score of 70% on your student portfolio, which will be evaluated by faculty members and/or professionals in each specialty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe or apply concepts and theories in the use and presentation of content.
2. Identify, describe or apply professional ethical principles and the importance of truth, accuracy, fairness and diversity.
3. Identify, describe or apply the tools and technologies appropriate for the telecommunication professions.

Critical Thinking

4. Gather information, conduct research and evaluate information by methods appropriate to the telecommunication professions.
5. Produce appropriate output that demonstrates creativity and critical thinking, independently or collaboratively.

Communication

6. Communicate effectively in forms and styles appropriate to the telecommunication professions, audiences and the purposes they serve.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
All Specializations						
RTV 2100	I	I	I	I	I	I
RTV 3001	I	I	I	I		
RTV 3101	R	R	R	R	R	R

RTV 3280		R		R		
RTV 3303	I	I	I	I		I
RTV 3305	R	R	R	R	R	R
RTV 3320	R	R	R	R	R	R
RTV 3405		I		I		
RTV 4301	R		R		R	R
RTV 4432		R, A		R, A		
RTV 4500	R	R	R	R	R	R
RTV 4506	R	R	R	R	R	R
RTV 4700		R		R	R	
Management Specialization						
RTV 4800	R, A		R, A		R, A	R, A
Media and Society Specialization						
RTV 4905	R, A		R, A		R, A	R, A
News Specialization						
RTV 3304	R, A		R, A		R, A	R, A
Digital Film and Television Production Specialization						
RTV 4929C	R, A		R, A		R, A	R, A

Assessment Types

- Policy memo and exam in addition to:
  - **Management**: written and oral presentation of a strategic plan developed for a client
  - **Media and Society**: written final project
  - **News**: portfolio of two radio or television news stories produced in RTV 3304
  - **Digital Film and Television Production:** final video project

Telecommunication | News

The Department of Telecommunication consistently ranks among the top five in the United States and is accredited by the Accrediting Council for Education in Journalism and Mass Communication.

About this Program

- **College:** Journalism and Communications (p. 447)
- **Degree:** Bachelor of Science in Telecommunication
- **Specializations:** Digital Film and Television Production (p. 498) | Management and Strategy (p. 484) | Media and Society (p. 488) | News (p. 493)
- **Credits for Degree:** 124
- **Contact**
- **Additional Information**
- **Related Telecommunication Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

Management and Strategy

Prepares students to enter the profession through positions in research, sales, and marketing and promotion.

News

Prepares students for careers as reporters and anchors, or as producers who are responsible for news programs behind-the-scenes. Entry into the broadcast news sequence is limited to students in the Department of Telecommunication who have placed in a competitive entrance exam. Contact the department office to determine when the exam is given.

Digital Film and Television Production

Prepares students for careers in program creation, writing and the creative applications of video and audio technology.

Media and Society

Focuses on the theories, methods and techniques used to play, produce and distribute audio and video programs and messages; personnel and facilities management; marketing and distribution; media regulations, law and policy; and principles of broadcast technology. It prepares individuals to work in media organizations and those organizations that use electronic media, such as political campaigns, government, education and business.

Students can also use the communication skills they acquire to pursue graduate degrees. Students majoring in telecommunication participate in the university's six broadcast stations, other on campus facilities such as the Gator Network and elective internships throughout the world.

Related Telecommunication Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Telecommunication, Media and Society, UF Online (p. 502)

News

Coursework

Code	Title	Credits
Required Core Coursework		
ENC 3254	Professional Writing in the Discipline [1]	3
JOU 3101	Reporting	3
MMC 1009	Introduction to Media and Communications [1]	1
MMC 2121	Writing Fundamentals for Communicators	3
MMC 3203	Ethics and Problems in Mass Communications [1]	3
or RTV 4432	Ethics and Problems in Telecommunication	
MMC 4200	Law of Mass Communication	3
RTV 2100	Writing for Electronic Media [1]	3
RTV 3001	Introduction to Media Industries and Professions [1]	3
RTV 3106	Writing and Reporting for Interactive Media [1]	3
RTV 3303	Audio News and Reporting [1]	3
RTV 3305	In-Depth Broadcast Reporting [1]	3
RTV 3405	Media and Society	3
RTV 4301	TV News Reporting [1]	3
VIC 3001	Sight, Sound and Motion [1]	4
Electives		
Electives inside college		7
Select one group of professional electives:		6
Reporting		
RTV 3304	Advanced Audio Storytelling	
RTV 4681	Advanced TV News Reporting	
Producing		
RTV 3632	Broadcast News Producing	
RTV 4684	Advanced Broadcast News Producing	
Total Credits		54

[1] Minimum grade of C required

Critical Tracking

Note that critical tracking is the same for all specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090701&track=01) may be used for transfer students.

Semester 1

- Complete critical-tracking course STA 2023 or ENC 1101
- 2.0 GPA on all work at all institutions

Semester 2

- Complete 2 of 5 critical-tracking courses: ENC 1101, ECO 2013, MMC 1009, RTV 2100 (MMC 2100 can be substituted for RTV 2100), RTV 3001
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 5

- Complete all critical-tracking courses

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
AMH 2020	United States Since 1877 (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
ENC 1101	Expository and Argumentative Writing (**Critical Tracking**; State Core Gen Ed Composition) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	3
State Core Gen Ed Physical or Behavioral Sciences (p. 23) [1]		3
	Credits	15
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities with International (p. 23))	3
Select one:		3
THE 2000	Theatre Appreciation (Gen Ed Humanities with Diversity)	
ARH 2000	Art Appreciation: American Diversity and Global Arts (Gen Ed Humanities with Diversity)	
ENC 1102	Argument and Persuasion (Gen Ed Composition; recommended elective) [1]	3
Gen Ed Mathematics [1]		3
	Credits	16
Semester Three		
ENC 3254	Professional Writing in the Discipline [1]	3
MMC 1009	Introduction to Media and Communications (**Critical Tracking**) [1]	1
MMC 2121	Writing Fundamentals for Communicators [1]	3
RTV 3001	Introduction to Media Industries and Professions (**Critical Tracking**) [1]	3
Foreign language or Quantitative option [1]		3
Gen Ed Physical or Biological Sciences [1]		3
	Credits	16

Semester Four		
POS 2041	American Federal Government (Gen Ed Social and Behavioral Sciences) [1]	3
RTV 2100	Writing for Electronic Media (**Critical Tracking**) [1,2]	3
SPC 2608 or ORI 2000	Introduction to Public Speaking [1] or Oral Performance of Literature 1	3
VIC 3001	Sight, Sound and Motion [1]	4
Foreign language or Quantitative option [1]		3
	Credits	16
Semester Five		
RTV 3303	Audio News and Reporting [1]	3
RTV 3405	Media and Society	3
Elective (inside college)		3
Elective (outside college)		2
Outside concentration course		3
	Credits	14
Semester Six		
JOU 3101	Reporting	3
SYG 2000 or PSY 2012	Principles of Sociology (Gen Ed Social and Behavioral Sciences) or General Psychology	3
RTV 3106	Writing and Reporting for Interactive Media [1]	3
RTV 4301	TV News Reporting [1]	3
Outside concentration course		3
	Credits	15
Semester Seven		
AMH 2010	United States to 1877	3
MMC 4200	Law of Mass Communication	3
RTV 3305	In-Depth Broadcast Reporting [1]	3
Elective (inside college)		1
Outside concentration course		3
Reporting professional elective or producing professional elective		3
	Credits	16
Semester Eight		
MMC 3203 or RTV 4432	Ethics and Problems in Mass Communications [1] or Ethics and Problems in Telecommunication	3
Elective (inside college)		4
Elective (outside college)		3
Outside concentration course		3
Reporting professional elective or producing professional elective		3
	Credits	16
	Total Credits	124

1 Minimum grade of C required.

2 MMC 2100 or JOU 3109C is accepted in lieu of RTV 2100

For semesters 7-8, students must complete two professional courses.

Up to six credits of professional internship credit may count toward graduation. Internships for credit require department approval, and a letter from the internship supervisor outlining duties and contact information. Internship application forms, information, and policies are available on the Department of Telecommunication website.

Academic Learning Compact

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RTV 3001	I	I	I	I		
RTV 3101	R	R	R	R	R	R
RTV 3280		R		R		
RTV 3303	I	I	I	I		I
RTV 3305	R	R	R	R	R	R
RTV 3320	R	R	R	R	R	R
RTV 3405		I		I		
RTV 4301	R		R		R	R
RTV 4432		R, A		R, A		
RTV 4500	R	R	R	R	R	R
RTV 4506	R	R	R	R	R	R
RTV 4700		R		R	R	
Management Specialization						
RTV 4800	R, A		R, A		R, A	R, A
Media and Society Specialization						
RTV 4905	R, A		R, A		R, A	R, A
News Specialization						
RTV 3304	R, A		R, A		R, A	R, A
Digital Film and Television Production Specialization						
RTV 4929C	R, A		R, A		R, A	R, A

Assessment Types

- Policy memo and exam in addition to:
  - **Management**: written and oral presentation of a strategic plan developed for a client
  - **Media and Society**: written final project

- **News**: portfolio of two radio or television news stories produced in RTV 3304
- **Digital Film and Television Production:** final video project

Telecommunication | Digital Film and Television Production

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About this Program

- **College:** Journalism and Communications (p. 447)
- **Degree:** Bachelor of Science in Telecommunication
- **Specializations:** Digital Film and Television Production (p. 498) | Management and Strategy (p. 484) | Media and Society (p. 488) | News (p. 493)
- **Credits for Degree:** 124
- **Contact**
- **Additional Information**
- **Related Telecommunication Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations

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Prepares students to enter the profession through positions in research, sales, and marketing and promotion.

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Prepares students for careers as reporters and anchors, or as producers who are responsible for news programs behind-the-scenes. Entry into the broadcast news sequence is limited to students in the Department of Telecommunication who have placed in a competitive entrance exam. Contact the department office to determine when the exam is given.

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- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Telecommunication, Media and Society, UF Online (p. 502)

Digital Film and Television Production

Coursework

Code	Title	Credits
Required Core Coursework		
ENC 3254	Professional Writing in the Discipline [1]	3
JOU 2040	Writing Mechanics [1]	1
MMC 1009	Introduction to Media and Communications [1]	1
MMC 3203	Ethics and Problems in Mass Communications [1]	3
or RTV 4432	Ethics and Problems in Telecommunication	
RTV 2100	Writing for Electronic Media [1]	3
RTV 3001	Introduction to Media Industries and Professions [1]	3
RTV 3101	Advanced Writing for Electronic Media [1]	3
RTV 3320	Electronic Field Production [1]	3
RTV 3511	Fundamentals of Production [1]	3

RTV 3516	Electronic Field Production II	4
RTV 4500	Telecommunication Programming	3
RTV 4700	Telecommunication Law and Regulation	3
RTV 4929C	Senior Advanced Workshop in Telecommunication Production [1]	3
VIC 3001	Sight, Sound and Motion [1]	4
Electives		
Electives inside college		15
Total Credits		55

[1] Minimum grade of C required

Critical Tracking

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Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090701&track=01) may be used for transfer students.

Semester 1

- Complete critical-tracking course STA 2023 or ENC 1101
- 2.0 GPA on all work at all institutions

Semester 2

- Complete 2 of 5 critical-tracking courses: ENC 1101, ECO 2013, MMC 1009, RTV 2100 (MMC 2100 can be substituted for RTV 2100), RTV 3001
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 5

- Complete all critical-tracking courses

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

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Semester One		
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ENC 1101	Expository and Argumentative Writing (**Critical Tracking**; State Core Gen Ed Composition) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	3
State Core Gen Ed Physical or Behavioral Sciences (p. 23) [1]		3
	Credits	15

Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities with International (p. 23))	3
Select one:		3
THE 2000	Theatre Appreciation (Gen Ed Humanities with Diversity)	
ARH 2000	Art Appreciation: American Diversity and Global Arts (Gen Ed Humanities with Diversity)	
ENC 1102	Argument and Persuasion (Gen Ed Composition; recommended elective) [1]	3
Gen Ed Mathematics [1]		3
	Credits	16
Semester Three		
ENC 3254	Professional Writing in the Discipline [1]	3
JOU 2040	Writing Mechanics	1
MMC 1009	Introduction to Media and Communications (**Critical Tracking**) [1]	1
RTV 3001	Introduction to Media Industries and Professions (**Critical Tracking**) [1]	3
Foreign language or Quantitative option [1]		3
Gen Ed Physical or Biological Sciences [1]		3
	Credits	14
Semester Four		
POS 2041	American Federal Government (Gen Ed Social and Behavioral Sciences) [1]	3
RTV 2100	Writing for Electronic Media (**Critical Tracking**) [1,2]	3
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VIC 3001	Sight, Sound and Motion [1]	4
Foreign language or Quantitative option [1]		3
	Credits	16
Semester Five		
SYG 2000 or PSY 2012	Principles of Sociology (Gen Ed Social and Behavioral Sciences) or General Psychology	3
RTV 3101	Advanced Writing for Electronic Media [1]	3
RTV 3511	Fundamentals of Production	3
Outside concentration course		3
Elective inside college		3
	Credits	15
Semester Six		
RTV 3320	Electronic Field Production [1]	3
Electives (inside college)		5
Electives (outside college)		5
Outside concentration course		3
	Credits	16
Semester Seven		
RTV 3516	Electronic Field Production II	4
RTV 4500	Telecommunication Programming	3
RTV 4929C	Senior Advanced Workshop in Telecommunication Production [1]	3
Elective (outside college)		3
Outside concentration course		3
	Credits	16
Semester Eight		
RTV 4432	Ethics and Problems in Telecommunication [1]	3
RTV 4700	Telecommunication Law and Regulation	3
Electives (inside college)		7
Outside concentration course		3
	Credits	16
	Total Credits	124

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All Specializations						
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RTV 3001	I	I	I	I		
RTV 3101	R	R	R	R	R	R
RTV 3280		R		R		
RTV 3303	I	I	I	I		I
RTV 3305	R	R	R	R	R	R
RTV 3320	R	R	R	R	R	R
RTV 3405		I		I		
RTV 4301	R		R		R	R
RTV 4432		R, A		R, A		
RTV 4500	R	R	R	R	R	R
RTV 4506	R	R	R	R	R	R
RTV 4700		R		R	R	
Management Specialization						
RTV 4800	R, A		R, A		R, A	R, A
Media and Society Specialization						
RTV 4905	R, A		R, A		R, A	R, A
News Specialization						
RTV 3304	R, A		R, A		R, A	R, A

Digital Film and Television Production Specialization				
RTV 4929C	R, A	R, A	R, A	R, A

Assessment Types

- Policy memo and exam in addition to:
  - **Management**: written and oral presentation of a strategic plan developed for a client
  - **Media and Society**: written final project
  - **News**: portfolio of two radio or television news stories produced in RTV 3304
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Telecommunication | Media and Society UF Online

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About this Program

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- **Credits for Degree:** 124
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Telecommunication Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Telecommunication | Media and Society focuses on the theories, methods and techniques used to play, produce and distribute audio and video programs and messages; personnel and facilities management; marketing and distribution; media regulations, law and policy; and principles of broadcast technology. It prepares individuals to work in media organizations and those organizations that use electronic media, such as political campaigns, government, education and business.

Students can also use the communication skills they acquire to pursue graduate degrees. Students majoring in telecommunication participate in the university's six broadcast stations, other on campus facilities such as the Gator Network and elective internships throughout the world.

Coursework

Code	Title	Credits
Required Core Coursework		
ENC 3254	Professional Writing in the Discipline [1]	3
MMC 1009	Introduction to Media and Communications [1]	1
MMC 2121	Writing Fundamentals for Communicators [1]	3
MMC 3203	Ethics and Problems in Mass Communications [1]	3
or RTV 4432	Ethics and Problems in Telecommunication	
RTV 2100	Writing for Electronic Media [1]	3
RTV 3001	Introduction to Media Industries and Professions [1]	3
RTV 3405	Media and Society	3
RTV 4420	New Media Systems	3
RTV 4700	Telecommunication Law and Regulation	3
or MMC 4200	Law of Mass Communication	
VIC 3001	Sight, Sound and Motion [1]	4
Professional electives		8
Specialization Blocks		
Select 9 credits each from two specialization blocks		18
Digital Media Block		
MMC 3260	Communications on the Internet	
MMC 3630	Social Media and Society	
PUR 3622	Social Media Management	

RTV 4591	Applications of Mobile Technology
Multicultural and Global Communications Block	
ADV 3008	Principles of Advertising
or PUR 3000	Principles of Public Relations
ADV 4400	International and Cross Cultural Advertising
MMC 4302	World Communication Systems
PUR 4404C	International Public Relations
Applications of Communication Block	
MMC 3420	Consumer and Audience Analytics
MMC 3614	Media and Politics
MMC 3703	Sports Media and Society
RTV 4500	Telecommunication Programming
Total Credits	55

[1] Minimum grade of C required

[2] These courses cannot be used to meet other requirements

Students may substitute a 12-credit combined degree program for one block.

Related Telecommunication Programs

- Bachelor of Science in Telecommunication (p. 482)

Critical Tracking

Note that critical tracking is the same for all specializations of this major.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=090701&track=01) may be used for transfer students.

Semester 1

- Complete critical-tracking course STA 2023 or ENC 1101
- 2.0 GPA on all work at all institutions

Semester 2

- Complete 2 of 5 critical-tracking courses: ENC 1101, ECO 2013, MMC 1009, RTV 2100 (MMC 2100 can be substituted for RTV 2100), RTV 3001
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 3

- Complete 2 additional critical-tracking courses
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 4

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.5 GPA on all work at all institutions

Semester 5

- Complete all critical-tracking courses

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
AMH 2020	United States Since 1877 (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
ENC 1101	Expository and Argumentative Writing (**Critical Tracking**; State Core Gen Ed Composition) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	3
State Core Gen Ed Physical or Behavioral Sciences (p. 23) [1]		3
	Credits	15
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**)	4
MUL 2010	Experiencing Music (State Core Gen Ed Humanities with International (p. 23))	3
Select one:		3
THE 2000	Theatre Appreciation (Gen Ed Humanities with Diversity)	
ARH 2000	Art Appreciation: American Diversity and Global Arts (Gen Ed Humanities with Diversity)	
ENC 1102	Argument and Persuasion (Gen Ed Composition; recommended elective) [1]	3
Gen Ed Mathematics [1]		3
	Credits	16
Semester Three		
ENC 3254	Professional Writing in the Discipline [1]	3
MMC 1009	Introduction to Media and Communications (**Critical Tracking**) [1]	1
MMC 2121	Writing Fundamentals for Communicators [1]	3
RTV 3001	Introduction to Media Industries and Professions (**Critical Tracking**) [1]	3
Foreign language or Quantitative option [1]		3
Gen Ed Physical or Biological Sciences [1]		3
	Credits	16
Semester Four		
POS 2041	American Federal Government (Gen Ed Social and Behavioral Sciences) [1]	3
RTV 2100	Writing for Electronic Media (**Critical Tracking**) [1,2]	3
SPC 2608 or ORI 2000	Introduction to Public Speaking [1] or Oral Performance of Literature 1	3
VIC 3001	Sight, Sound and Motion [1]	4
Foreign language or Quantitative option [1]		3
	Credits	16
Semester Five		
SYG 2000 or PSY 2012	Principles of Sociology (Gen Ed Social and Behavioral Sciences) or General Psychology	3
RTV 3405	Media and Society	3
Specialization block courses		6
Outside concentration course		3
Quantitative option or general elective		2
	Credits	17
Semester Six		
Specialization block courses		6
Outside concentration course		3
Electives (inside college)		6
	Credits	15
Semester Seven		
MMC 3203 or RTV 4432	Ethics and Problems in Mass Communications [1] or Ethics and Problems in Telecommunication	3
RTV 4700 or MMC 4200	Telecommunication Law and Regulation or Law of Mass Communication	3
Specialization block courses		6
Elective (inside college)		1
Outside concentration course		3
	Credits	16
Semester Eight		
AMH 2010	United States to 1877	3
Select one:		3
POS 2112	American State and Local Government	

CPO 2001	Comparative Politics	
INR 2001	Introduction to International Relations	
RTV 4432	Ethics and Problems in Telecommunication	3
Outside concentration course		3
Elective (inside college)		1
	Credits	13
	Total Credits	124

1 Minimum grade of C required.

2 MMC 2100 or JOU 3109C is accepted in lieu of RTV 2100.

Up to six credits of professional internship credit may count toward graduation. Internships for credit require department approval, and a letter from the internship supervisor outlining the duties and contact information. Internship application forms, information, and policies are available on the Department of Telecommunication website.

Specialization Block Electives

Select 9 credits each from two specialization blocks

Digital Media Block

Code	Title	Credits
MMC 3260	Communications on the Internet	3
MMC 3630	Social Media and Society	3
PUR 3622	Social Media Management	3
RTV 4591	Applications of Mobile Technology	3

Multicultural and Global Communications Block

Code	Title	Credits
ADV 3008	Principles of Advertising	3
or PUR 3000	Principles of Public Relations	
ADV 4400	International and Cross Cultural Advertising	3
MMC 4302	World Communication Systems	3
PUR 4404C	International Public Relations	3

Applications of Communication Block

Code	Title	Credits
MMC 3420	Consumer and Audience Analytics	3
MMC 3614	Media and Politics	3
MMC 3703	Sports Media and Society	3
RTV 4500	Telecommunication Programming	3

Academic Learning Compact

The major in telecommunication, which includes specializations in management, media and society, news, and digital film and television production, prepares students to understand the means of communicating with diverse audiences and to use the tools of information gathering and storytelling to communicate with those audiences through electronic media such as video, audio and interactive technologies. Through study and practical application, students gain knowledge of the history, norms and legal and ethical milieu of the telecommunication professions. Students learn to locate and use reference tools and to demonstrate the ability to communicate independent, critical perspectives.

Before Graduating Students Must

- Achieve a passing score of 70% on your student portfolio, which will be evaluated by faculty members and/or professionals in each specialty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe or apply concepts and theories in the use and presentation of content.
2. Identify, describe or apply professional ethical principles and the importance of truth, accuracy, fairness and diversity.
3. Identify, describe or apply the tools and technologies appropriate for the telecommunication professions.

Critical Thinking

4. Gather information, conduct research and evaluate information by methods appropriate to the telecommunication professions.
5. Produce appropriate output that demonstrates creativity and critical thinking, independently or collaboratively.

Communication

6. Communicate effectively in forms and styles appropriate to the telecommunication professions, audiences and the purposes they serve.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
All Specializations						
RTV 2100	I	I	I	I	I	I
RTV 3001	I	I	I	I		
RTV 3101	R	R	R	R	R	R
RTV 3280		R		R		
RTV 3303	I	I	I	I		I
RTV 3305	R	R	R	R	R	R
RTV 3320	R	R	R	R	R	R
RTV 3405		I		I		
RTV 4301	R		R		R	R
RTV 4432		R, A		R, A		
RTV 4500	R	R	R	R	R	R
RTV 4506	R	R	R	R	R	R
RTV 4700		R		R	R	
Management Specialization						
RTV 4800	R, A		R, A		R, A	R, A
Media and Society Specialization						
RTV 4905	R, A		R, A		R, A	R, A
News Specialization						
RTV 3304	R, A		R, A		R, A	R, A
Digital Film and Television Production Specialization						
RTV 4929C	R, A		R, A		R, A	R, A

Assessment Types

- Policy memo and exam in addition to:
- **Management**: written and oral presentation of a strategic plan developed for a client
- **Media and Society**: written final project
- **News**: portfolio of two radio or television news stories produced in RTV 3304
- **Digital Film and Television Production:** final video project

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Liberal Arts and Sciences, College of

The College of Liberal Arts and Sciences is the largest college on campus, with more than 10,000 undergraduate students pursuing a variety of disciplines through its 33 majors and 48 minors. Undergraduate students acquire an intellectual foundation based on a well-rounded and comprehensive education designed for an increasingly technological and rapidly changing society.

Contact

Office of the Dean
2014 Turlington Hall
P.O Box 117300

Gainesville FL 32611-7300

352.392.0780

Map (http://campusmap.ufl.edu/?loc=0267) More Info (http://www.clas.ufl.edu)

Academic Advising Center (AAC)
Farrior Hall
205 Fletcher Drive

P.O. Box 112015
University of Florida
Gainesville, FL 32611-2015

352.392.1521

Established

1910

Academic Divisions

The College of Liberal Arts and Sciences has 21 departments and 28 centers and institutes.

Degrees

Bachelor of Arts and Bachelor of Science degrees in over 30 majors, as well as a number of interdisciplinary studies fields.

The college also offers combined-degree (bachelor's-master's) programs in biology, botany, computer science, economics, French and Francophone studies, geography, geology, history, international relations, Latin American studies, linguistics, mathematics, philosophy, physics, political science, Portuguese, religion, Russian, sociology, Spanish, statistics, women's studies, and zoology.

- Explore the majors and career options within CLAS (http://www.clas.ufl.edu/majors)

Academic Advising

Department advisors assist students with their majors' requirements and options within the major. The Academic Advising Center helps CLAS students understand college and university degree requirements and regulations and the critical-tracking requirements for their major.
More Info (http://www.advising.ufl.edu)

Pre-Health and Pre-Law

Students interested in attending professional school in medicine, dentistry, law, optometry, pharmacy, or veterinary medicine after completing the bachelor's degree should seek advising from the Pre-Health and Pre-Law Advising in the Academic Advising Center. The AAC offers workshops and individual advising to guide pre-health and pre-law students.
Pre-Health (http://www.advising.ufl.edu/pre-health) Pre-Law (http://www.advising.ufl.edu/pre-law)

Career Guidance

Students who need to explore majors and careers can find resources on the college's Explore our Majors (https://clas.ufl.edu/undergraduate) page and the Academic Advising Center (https://www.advising.ufl.edu/exploratory) website. Additionally, students are encouraged to utilize the Career Connections Center (https://career.ufl.edu) for career and major exploration as well as other career-related needs.

Students should consult their major department regarding internship credit. Additional information is available in 2014 Turlington, 352.392.6800. The college also offers an opportunity for students to receive internship credit outside of their major; more information can be found on the Academic Advising Center (https://www.advising.ufl.edu/liberal-arts-and-sciences-internship-ids4940) website. The Honors Program, 343 Infirmary, 1 Fletcher Drive, provides information on internship programs at the Washington Center in Washington, D.C. and other sites.
More Info (http://www.honors.ufl.edu/current/internships)

Scholarships

For additional information regarding scholarships offered by CLAS, visit 2014 Turlington Hall.
More Info (https://clas.ufl.edu/undergraduate/undergrad-scholarships)

The Honors Office also has scholarship information for students in the honors program.
More Info (http://www.honors.ufl.edu/current/internal-scholarships)

Student Organizations

CLASSC, the college's student council, serves as a resource for CLAS students and as an advocate for student issues within the college.
More Info (https://classc.clas.ufl.edu)

In addition, CLASSC provides funding for programs and travel to conferences for more than 25 student organizations specific to CLAS.
More Info (https://classc.clas.ufl.edu/organizations)

Phi Beta Kappa is another organization for CLAS student involvement.

Research Experience

In most departments, students can conduct research under the direction of a faculty member. Consult a department advisor for information about faculty research areas or the Finding a Research Project (https://cur.aa.ufl.edu/faculty/finding-a-project) page on Center for Undergraduate Research's website. In addition, students in CLAS are eligible to apply for the University Scholars Program. Teamed with faculty mentors, University Scholars identify a topic, initiate research during the summer, and continue investigation throughout the following academic year. Students chosen as University Scholars (http://www.scholars.ufl.edu) receive a $1,750 stipend.

Special Academic Recognition

Dean's Medal

The college believes that the best preparation for success draws deeply across the full range of the college's offerings. The Dean's Medal recognizes those CLAS graduates who have gone above and beyond in their pursuit of broad study in the liberal arts and sciences. Medal winners have not only undertaken a significant range of courses, but have acquired the range of skills and experiences valued by graduate and professional schools, organizations, employers, and communities.
More Info (https://clas.ufl.edu/advising/the-deans-medal-for-excellence-in-liberal-arts-and-sciences)

Honors

The college offers a variety of opportunities for independent and seminar honors work to undergraduates who demonstrate appropriate qualifications. Superior students should take initiative in planning undergraduate and graduate programs. They should consult the honors coordinator in their department about requirements for the baccalaureate degree cum laude, magna cum laude, or summa cum laude. Postbaccalaureate students are not eligible to receive honors recognition.

Study Abroad

Students in the college are encouraged to participate in study-abroad programs administered by the UF International Center, and scholarships are available. Study-abroad programs may satisfy certain requirements, such as general education, CLAS distribution, foreign language, summer term enrollment, and UF residency. Some study-abroad courses may also count toward a student's major.
More Info (https://internationalcenter.ufl.edu)

CLAS has many programs overseas for undergraduates for a semester, a summer, or an academic year, each providing a wide range of academic and cultural experiences.

UF International Center, 170 Hub, 352.392.5323.

Teacher Preparation: Professional Training Options

A PTO is an alternative certification program meant to prepare students for temporary teacher certification in Florida. Professional teacher certification is attainable with passing scores on relevant teacher certification exams, a clear criminal history background report, and one year of successful teaching in a Florida public school. Please review state certification information (http://www.fldoe.org/edcert/level3.asp).

There are three PTO programs at UF:

- UFTeach Mathematics Teaching minor
- UFTeach Science Teaching minor
- Florida Teaching minor

The UFTeach (http://education.ufl.edu/uf-teach) minor in mathematics teaching, available to students pursuing a major in mathematics, is meant to prepare students to be middle school and high school mathematics teachers in Florida. The UFTeach (http://education.ufl.edu/uf-teach) minor in science teaching, available to students pursuing a major in a science discipline, is meant to prepare students to be middle school general science teachers and high school biology, chemistry, earth/space science, or physics teachers. There is a critical shortage of qualified high school mathematics and science teachers in Florida. Students interested in this high-demand profession should see the advisor in their major or the UFTeach advisor for more information.

The Florida Teaching minor is available to non-mathematics and non-science majors (ideally pursuing a major that would build competence in the subject the student wants to teach). It can lead to certification in a variety of subject areas and grade levels. Students interested in pursuing this minor should visit the College of Education Office of Student Services in G416 Norman Hall.

Center for Written and Oral Communication

The William and Grace Dial Center for Written and Oral Communication offers courses focusing on the communication skills students need for their majors and future careers. Students interested in business, education, law, medicine, and other fields can develop oral communication skills essential to success in their professions. The center also offers a minor in communication studies, comprised of courses in public speaking, interpersonal communication, and a variety of upper-division courses that focus on different communication contexts.
More Info (http://cwoc.ufl.edu)

The University Writing Program

The University Writing Program prepares students and faculty to meet their academic and professional writing goals by delivering broad-based instruction in composition and discipline-specific writing courses, by providing a writing studio for individualized help, and by hosting faculty and student workshops.

The UWP houses coursework in First-Year Writing, Second-Year Analytical Thinking and Writing, and Third-Year Professional Writing in the Disciplines. Individual third-year courses focus on writing in specific disciplines (anthropology, communication science and disorders, engineering, law, neurobiological sciences, physical sciences, political science, sociology, etc.). These courses address the form, content, and style of professional and academic writing. Depending on the discipline, students may prepare proposals, scientific research reports, lab reports, professional correspondence, legal briefs and memoranda, analytical essays, applications to graduate programs, applications for employment, and presentations of research.
More Info (http://writing.ufl.edu)

Helpful Links

- College Website (http://clas.ufl.edu)
- Combined Degrees (p. 1400)
- Computer Requirements
  - General Requirements (http://www.it.ufl.edu/policies/student-computing-requirements)
  - CLAS Requirements (http://it.clas.ufl.edu/policies/student-computer-requirement)
- Dean's List (p. 1385)

Academic Policies

Degree Programs

Bachelor of Arts | 120 Credits

Conferred upon students who fulfill degree requirements with majors in African-American studies, astronomy, classical studies, criminology, economics, English, foreign languages and literatures, Hispanic and Latin American languages, literatures, and linguistics, history, international studies, Jewish studies, linguistics, philosophy, political science, Portuguese, religion, sociology, Spanish, sustainability studies, and women's studies.

Bachelor of Science | 120 Credits

Conferred upon students who fulfill degree requirements with majors in astrophysics, botany, chemistry, computer science, marine sciences, microbiology and cell science, and zoology.

A **Bachelor of Arts** or **Bachelor of Science** will be conferred upon those students who fulfill the requirements for the specific degree with majors in anthropology, biology, geography, geology, mathematics, physics, psychology, statistics, or interdisciplinary studies. Students should consult the undergraduate coordinator in their major department to discuss the appropriate curriculum for either degree.

Admission

First-Year Students

First-year students select a major and enter the college when they enroll at UF. Students selecting a CLAS major should start planning their major early in their UF careers by speaking with a general advisor in the Academic Advising Center (http://www.advising.ufl.edu) (AAC), 100 Farrior Hall, and a department advisor in their major's department (https://clas.ufl.edu/departments).

Three temporary enrollment categories are provided to facilitate exploration of academic options for students who are unsure about a choice of major:

- Exploring Humanities and Letters
- Exploring Social and Behavioral Science
- Exploring Sciences and/or Engineering

Students select the exploratory category that most closely fits their academic interests.

Advisors in the AAC can help students determine an appropriate program of study. Students may be enrolled in exploratory registration categories for the first three fall/spring terms only (not counting summer terms). Students must be admitted to a major before registering for their fourth term.

Transfer Students

Detailed information about transfer admission requirements is available for each CLAS major.
More Info (https://www.advising.ufl.edu/admissions/transfer-admissions)

Transfer students are expected to graduate from the major into which they were admitted. An appeal to change majors after transferring is unlikely to be approved.

Admission to the College of Liberal Arts and Sciences is competitive due to space limitations. Priority is given to transfer applicants completing their Associate of Arts (AA) degree at one of the public state colleges or universities within the state of Florida (under the state's articulation agreement).

Admitted students who do not enroll in the term for which they have been admitted must submit a new application by the deadline to be considered for a future term.

After being admitted, transfer students are required to attend orientation (Transfer Preview) and are responsible for meeting with their department advisor and an advisor in the AAC to ensure that their transfer credits are evaluated properly and that they understand the requirements to complete their UF degrees.

Change of Major

Changing Majors in Terms 1-5

Students who want to change to a CLAS major in terms 1-5 must meet with an advisor in the AAC. The tracking term of students who entered UF as Summer B/Fall freshmen, is based on the number of fall/spring semesters in which they enrolled for 10 or more credits. For students who entered UF as an Innovation Academy freshman, their tracking term is based on the number of spring/summer semesters in which they enrolled for 10 or more credits. Full-term withdrawals and study abroad are not included as a tracking term.

Students should meet the critical-tracking criteria for their real tracking term. Students who do not may be permitted to change majors, provided they:

- Can get on track in a reasonable number of terms
- Demonstrate potential for success in the new major (successful completion of major and major-related courses in two attempts, including withdrawals, with a C or better)
- Meet all other CLAS progression standards

Generally, students who transfer into CLAS as juniors will not be able to change majors.

Changing Majors in Term 6 or Later

The further along a student is, the harder it may be to change majors and progress and graduate in a timely fashion. Students wishing to change to a CLAS major in term 6 or later must meet with an advisor in the AAC.

Students must:

- Meet the critical-tracking criteria (pre-professional GPA and minimum cumulative UF GPA) for the major
- Meet all other CLAS progression standards for the desired major
- Demonstrate potential for success in the major (successful completion of major and major-related courses without excessive Ws, grades lower than C, or multiple repeats)
- Provide clear and purposeful reasons for which the change of major is appropriate, and
- Be able to graduate in a timely fashion

Students in term 6 or later must also submit a program plan identifying the courses they intend to complete for the new major as well as a statement explaining their educational goals. The department offering the desired major must support the student's admission to the major. **Students may pursue only the major to which they have been admitted** and they must follow the approved program plan.

Progression to Graduation

Every student is expected to make satisfactory progress toward graduation each semester. Students who fail to make satisfactory progress may be required to seek advisement, be denied further registration, or mandated to meet specific conditions in order to continue in the major and/or CLAS.

Critical Tracking for CLAS Majors

Students in terms 1-5 are required to meet the critical-tracking criteria for their majors in each of the first five terms. The critical-tracking criteria are listed for each CLAS major. **CLAS counts all attempts of critical-tracking courses when calculating the pre-professional GPA for a major.** For more

information about tracking, refer to Tracking Progress toward a Degree (p. 1425).

Additional Progression Standards

All CLAS students must meet these standards or they may be denied further registration:

- Maintain a minimum overall UF cumulative grade point average of 2.0
- College Probation: Students who have an overall UF cumulative grade point average under 2.0 are placed on college probation and are required to meet with an advisor to discuss their academic progress.
- Achieve a minimum 2.0 GPA on all coursework each semester.
- Successfully complete (with a minimum grade of C) at least one course in the major each term during the junior and senior years until major course requirements are completed. Students can pursue only the major to which they have been admitted.
- Earn a minimum grade of C within two attempts (including drops/withdrawals) in each course in the major. Certain majors may require grades higher than C in specific courses. Students must meet major requirements.
- Maintain a minimum cumulative GPA of 2.0 for courses required in the major.
- Withdraw from the university no more than twice while enrolled in this college.
- Graduate in a timely fashion (see Timely Graduation, below).
- Students who have completed all of the academic requirements for the degree but have not obtained the degree may be denied further registration in the college. Students who have completed fewer than eight full-time semesters may be approved to continue provided the student demonstrates an educational plan that will enhance the achievement of his/her academic goals, consistent with CLAS policies. Students in this situation should consult with an advisor in the AAC.

Each semester, the university emails students reminding them to check Registration Prep in ONE.UF. Upon receipt of this email, students should consult their record to determine if they have any registration holds and to review their degree audit on ONE.UF (https://one.uf.edu). The degree audit outlines the requirements for the degree and indicates whether or not a student has met each requirement. Students should use their degree audit to plan a program of satisfactory progress each term.

It is recommended that students begin work on the foreign language requirement during the first two years, unless the major department indicates otherwise.

Timely Graduation

CLAS majors are expected to graduate in a "timely fashion," defined as eight full-time fall/spring semesters for students admitted as summer b/fall freshmen, eight full-time spring/summer semesters for students admitted as Innovation Academy freshmen, and four fall/spring semesters for students admitted as junior transfers. Full-term withdrawals, full-term semesters of overseas study, or full-term semesters of internship away from UF are not included in this count, though students should be mindful of potential excess hours implications of extending their time at UF.

Students who cannot meet their degree requirements in a timely fashion are expected to enroll in summer terms to complete their degree requirements. Additional study is permitted with the approval of an advisor in the CLAS Academic Advising Center or the College Petitions Committee, and may be limited to fulfillment of unmet degree requirements.

Due to the sequencing of course requirements, some A.A. and upper division transfer students may be unable to complete their degree requirements in the four allotted terms. Students should see an advisor in the AAC to determine an appropriate academic plan to complete their degrees. A.A. and upper division transfer students with fewer than four post-high school fall/spring terms may be allowed a total of eight post-high school fall/spring terms, provided students demonstrate a plan to meet their academic goals.

CLAS understands that while many beginning UF freshmen students (including HS/A.A. students) come in with significant credit from accelerated mechanisms and could meet the minimum requirements for the degree in 2-3 years, simply meeting the minimum academic requirements for the degree does not necessarily signify that the student is well-prepared to achieve his or her educational goals. Because of this, CLAS will allow a student to enroll in up to eight full-time semesters provided the student demonstrates an educational plan that will enhance the achievement of those academic goals, consistent with CLAS policies. Students in this situation should consult with an advisor in the AAC.

Students should discuss their excess hours standing with their advisor as they are making their plan. In addition, students should discuss their financial aid/scholarship situation with Student Financial Affairs in 107 Criser Hall or Veterans Services in 222 Criser Hall.

Registration Policies

Normal Course Loads

CLAS students normally enroll in 12-18 credits per term (a minimum of 12 credits is considered full-time). A CLAS academic advisor in the AAC (Farrior Hall) must approve loads above 18 credits. Students who wish to enroll for fewer than 12 credits should discuss their plan and academic standing with a CLAS academic advisor in the AAC.

Adding Courses

Students may add courses any time during drop/add. Additional coursework may be added via ONE.UF after the drop/add period but prior to the published drop deadline with appropriate department and college approval.

Dropping Courses

Students may drop courses during drop/add without penalty. After the drop/add period, a course may be dropped via ONE.UF until the published Drop Deadline. The drop policy is explained in the Academic Regulations section.
More Info (p. 1430)

All such drops are subject to the following restrictions:

- Two unrestricted drops are permitted before attempting 60 credits at UF.
- Two unrestricted drops are permitted for CLAS students after attempting 60 credits at UF or after transferring to UF with 60 credits or an A.A. from a public institution in Florida.
- Students wishing to drop courses beyond the two unrestricted drops may petition the CLAS petitions committee. The petition must include a personal statement *explaining an extenuating circumstance that prevents completion of the course(s).* Documentation supporting the personal statement must also be included. Please examine the general petition form (https://www.advising.ufl.edu/

docs/general_petition.PDF) in the AAC for guidelines and for documentation.

- Students who wish to drop a course **after** the drop deadline may complete a college petition to do so until the last day of classes (fall and spring semesters only). Students must include substantial documentation of an extenuating circumstance (usually severe medical condition) that occurred after the drop deadline and that prevents completion of the course(s). Students should first discuss their options with the instructor of the class before submitting a petition.

Students should discuss with an academic advisor how a dropped course will affect their academic standing and should also discuss with a financial aid advisor how it will affect their financial aid and/or scholarships. Students may be required to pay back scholarship monies when they drop a course. Students receiving VA benefits should talk to the Veterans Services office.

Withdrawing

Students who want to drop **all** courses for any current term are able to do so via ONE.UF (https://one.uf.edu) prior to the withdrawal deadline. Dropping the entire load constitutes withdrawal from the university.

Courses dropped via full term withdrawal do not count toward a student's number of unrestricted drops. Students must discuss with an academic advisor how the withdrawal will affect their academic standing and discuss with a financial aid advisor how it will affect their financial aid. Students receiving VA benefits should talk to the Veterans Services office. Students wanting to withdraw from all courses after the withdrawal deadline may submit a college petition before the last day of classes and consistent with the guidelines listed in the Dropping Courses section above.

Petitions

Students who have an extenuating circumstance that prevents them from adhering to a college regulation may petition for a waiver. The CLAS petitions committee considers petitions weekly on a case-by-case basis. **All petitions must include a statement explaining the hardship and documentation supporting the claim.** Information is available at 100 Farrior Hall; instructions are on the college petition form.
More Info (http://www.advising.ufl.edu/resources/forms)

Registration in Graduate Courses

Advanced undergraduate students with excellent academic records can register for graduate courses (5000 level and above) with permission of the department advisor. Students will be charged graduate-level fees for enrolling in graduate courses. Refer to the information on combined bachelor's/master's programs.

Flexible Learning

Distance & Continuing Education (DCE) offers fully online undergraduate courses for college credit through UF Flexible Learning. CLAS students interested in taking a Flexible Learning course must first consult with their academic advisor. The student must have a cumulative 2.0 UF GPA. CLAS students may apply up to two (2) Flexible Learning courses toward a degree and must seek college dean's office approval to exceed this limit. CLAS Advisors and the DCE office will approve access to a Flexible Learning course if the student is below the two (2) course limit and meets at least one (1) of the following criteria:

- The student has a health concern
- There are circumstances preventing the student from physically being on campus and the course is not offered online
- The student requires off-calendar, flexible format solution required for scholarship, tracking, and/or graduation requirements

More Info (https://flexible.dce.ufl.edu)

Transient Study

UF Students Attending Other Schools

Students may submit a transient form (https://www.floridashines.org/succeed-in-college/take-a-course-at-another-school) via Floridashines.org to request permission to enroll at another institution and have the credits apply to their UF degrees.
More Info (https://www.advising.ufl.edu/academicinfo/transient-study)

To be eligible for transient work, students must:

- Have a minimum 2.0 UF GPA
- Be on-track for the current major
- Not break the residency requirement (Students MUST complete their last 30 credits continuously at UF)

Students who have already transferred 60 credits from a public/state college may not apply additional public/state college credits toward their degree.

If approved for transient enrollment elsewhere, students may still need to have courses approved for the fulfillment of any specific requirement. Courses intended to meet major or minor requirements are subject to the approval of the appropriate department. Courses whose numbers are not consistent with the common course numbering system need to be reviewed and approved by an AAC advisor to meet general education or basic distribution requirements.

Writing requirement credits are posted based on how the course is coded at the institution where the course is taken. Students should not assume they will receive the same writing credit from another institution that they would if they took the course(s) at UF. All writing requirement questions should be directed to the Office of the University Registrar.

Students must ensure that a final transcript is sent to UF after completion of the course(s). Grades for courses taken elsewhere will not be calculated into the UF GPA but may be considered as part of the preprofessional GPA used by critical-tracking. Grades in courses taken elsewhere do appear on the UF transcript.

Supplemental Academic Programs

In addition to the major, CLAS offers other ways for students to pursue their academic interests. Students may opt to pursue a minor, certificate, double major, dual degree, or combined bachelor's/master's program.

The college must approve supplemental programs of study. In considering applications for supplemental programs, CLAS will consider the following:

- Whether the student meets the minimum requirements for consideration for the program
- The student's goals and whether the student has demonstrated the potential for success in the program

- Whether completing the supplemental program will allow the student to graduate in a timely fashion
- Space availability in the desired program

Supplemental programs are optional and meeting the minimum requirements for consideration does not guarantee approval to pursue the program.

Funding for supplemental programs depends on the kinds of financial support the student receives. Students should discuss their excess hours standing with their academic advisor. Students should also discuss their plans for supplemental programs with Student Financial Affairs in 107 Criser Hall (for financial aid/scholarships) or the Veterans Services office in 222 Criser Hall (for VA benefits). Students also should be aware of their excess hours status and whether they may be liable for a surcharge. Students can discuss their excess hours status with an academic advisor.

Minors and Their Requirements

The minor provides a traditional, well-accepted way to recognize that a student has completed a significant body of work outside the major. A minor shall consist of no fewer than 15 semester credits of coursework, earned with minimum grades of C. At least three courses (none can be individual work) of no fewer than three credits each must be at the 3000 level or above. Of the total credits, no more than three may be individual work. Students should consult an advisor in the appropriate department for the requirements for each minor.

A minor may not inherently overlap with the student's major (e.g., a history major may not declare a history minor, even if the student takes additional history credits beyond what is required for the major). In addition, students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the student's major(s) or other minor(s).

View the AAC website regarding minors to review a list of majors/minors that will not be approved due to overlap. This list is not all-inclusive, for each minor application an AAC advisor will review whether your intended major/minor combination is acceptable.
More Info (https://www.advising.ufl.edu/academicinfo/minors)

To be eligible for a minor, students must:

- Have an established UF minimum GPA of 2.0 (some minors require a higher GPA, see catalog description of the minor)
- Be on-track for their major
- Have at least 45 credits earned
- Be able to complete the minor in a timely fashion and thus able to graduate on time
- Complete a minimum of six credits exclusive to the minor; i.e., credits that cannot count toward major(s) or other minor(s)

CLAS students should make a written application (http://www.registrar.ufl.edu/pdf/minorapp.pdf) for admission to the minor in 100 Farrior Hall after earning 45 credits and are encouraged to do so before the end of their junior year. Applicants must meet the minimum admission requirements for the minor. Students are limited to three minors.

Students may use 3000-level courses in the minor to fulfill the college elective requirement. Students should plan the minor so that the courses will count for the minor and as 3000-level electives outside their major.

Approval to pursue a minor does not guarantee that students will be granted the minor upon graduation. Students must complete all minor requirements and at least 6 credits exclusive to the minor without overlap with their major(s) or other minors.

A minor will be awarded when the academic unit offering the minor certifies that the applicant has completed the requirements. Such award(s) will be noted on the UF transcript. Students must be certified for the minor at the same time that they complete the bachelor's degree.

Certificates

UF offers 30 different certificates. Each certificate program must have at least nine credits that are exclusive to the certificate and may not count toward any other certificate or minor. All courses required must be completed with minimum grades of C or S in each course.

Double Major And dual Degree

Students who are interested in studying two disciplines may pursue a double major or a dual degree. The two disciplines may not extensively overlap. Each double major/dual degree application will be reviewed to ensure that the student will complete a minimum of 15 credits of coursework exclusive to each major that will not count toward the other major or any minors. The AAC website lists double major/dual degree combinations (https://www.advising.ufl.edu/academicinfo/duals-and-doubles) that will not be approved because of extensive overlap. This list is not all-inclusive, so students should consult an AAC advisor to verify that the intended major/degree combination is acceptable.
More Info (http://www.advising.ufl.edu/academicinfo/duals-and-doubles)

Approval to pursue a double major/dual degree does not guarantee the student will be granted both upon graduation. To be certified to receive the majors/degrees, all requirements must be met for each and at least 15 credits exclusive to each major (not applying to the other major or any minors) must have been completed.

To earn a double major or dual degree, a student must be certified for and graduate from all undergraduate programs of study at the same time.

Double Major

Completing two majors in the College of Liberal Arts and Sciences for which the degree is the same (both Bachelor of Arts or both Bachelor of Science). Upper-level courses used for one major can fulfill College of Liberal Arts and Sciences' elective requirement for the other major, and vice versa.

A student completing two majors that have the same degree, B.A. or B.S., will receive a single degree. The diploma and transcript will identify the degree and the two majors.

Dual Degree

Completing two majors for which the degree is different (a Bachelor of Arts and a Bachelor of Science; or one major in the College of Liberal Arts and Sciences and another in another college). Upper-level courses used for one major can fulfill College of Liberal Arts and Sciences' elective requirement for the other major.

A student completing two CLAS majors that have different degrees, or major and college requirements in two different colleges, will receive two degrees. The student will receive two diplomas, each with the appropriate major listed, and the transcript will identify each degree and major.

Students applying for a double major or dual degree must:

- Already be admitted to one of the majors and have between 45 and 96 credits (not including AICE, AP, CLEP, IB, dual enrollment, or overseas study credit).
- Have not previously been denied admission as a transfer student to the CLAS major for which the student is applying.
- Meet the minimum UF GPA (specified below) required to pursue a CLAS double major or dual degree (determined in part by whether the major is over-enrolled (http://www.advising.ufl.edu/academicinfo/duals-and-doubles)).
  - Have a 3.5 GPA when both majors are in LS and BOTH majors are overenrolled.
  - Have a 3.0 GPA for two majors/degrees and no more than one is an overenrolled LS major.
- Meet all critical-tracking term 5 requirements for all CLAS majors before submitting the application. If one of the majors is outside CLAS, applicants must get approval from the appropriate college for that major.
- Meet all other CLAS progression standards for both majors and demonstrate potential for success in both majors (successful completion of major and major-related courses without excessive Ws, grades less than C or multiple repeats);
- Be able to complete the degree in a timely fashion (typically eight fall/spring semesters for students who entered UF as Summer B/Fall freshmen, eight spring/summer semesters for students who entered UF as Innovation Academy freshmen, and four fall/spring semesters for students who entered UF as transfer students). Additional study is permitted only with approval of a CLAS AAC advisor or the college petitions committee.
- Have clearly articulated and purposeful reasons for which the double major or dual degree is appropriate.
- Have not previously been denied admission as a transfer student to any of the CLAS majors.

Students should obtain an application (http://www.registrar.ufl.edu/forms.html) for a double major or dual degree. Students must submit a program plan identifying the courses they intend to complete for both majors, as well as a statement explaining their educational goals. For some majors with potential significant overlap, students may need to complete a certain number of credits exclusive to both majors before the application may be approved. After being approved, students must follow the program plan outlined in their application or the approval for the supplemental program of study will be voided.

Students can pursue a double major or dual degree only if approved in advance by the college.

Triple Majors/Degrees

Students who are interested in studying three disciplines may choose to pursue triple majors/degrees. The three disciplines may not extensively overlap. Each triple major/degree application will be reviewed to ensure that the student will complete a minimum of 15 credits of coursework exclusive to each major that will not count toward the other majors or any minors. View the triple majors/degrees page for a list of major combinations that will not be approved due to extensive overlap.
More Info (http://www.advising.ufl.edu/academicinfo/duals-and-doubles/#tdeligibility)

Approval to pursue triple majors/degrees does not guarantee the student will be granted all majors/degrees upon graduation. To be certified to receive the majors/degrees, all requirements must be met for each and at least 15 credits exclusive to each major (not applying to the other majors or any minors) must have been completed.

To earn triple majors/degrees, a student must be certified for and graduate from all undergraduate programs of study at the same time.

Students applying for triple majors/degrees must:

- Have selected at least one CLAS major that is considered under-enrolled (http://www.advising.ufl.edu/academicinfo/duals-and-doubles/#tdeligibility) if all three majors are in CLAS.
- Already be admitted to one of the majors and have between 45 and 96 credits (not including AICE, AP, CLEP, IB, dual enrollment, or overseas study credit).
- Have a minimum 3.5 UF GPA required if two of the LS majors are overenrolled.
- Have a minimum 3.0 UF GPA if no more than one of the majors is an overenrolled LS major.
- Meet all critical-tracking term 5 requirements for all CLAS majors, before submitting the application. If one of the majors is outside CLAS, applicants must get approval from the appropriate college for that major.
- Meet all other CLAS progression standards for all majors and demonstrate potential for success in all majors (successful completion of major and major-related courses without excessive W's, grades less than C, or multiple repeats).
- Be able to complete the degree in a timely fashion (typically eight fall/spring semesters for students who entered UF as freshmen, eight spring/summer semesters for students who entered UF as Innovation Academy freshmen, and four fall/spring semesters for students who entered UF as transfer students). Additional study is permitted only with approval of a CLAS AAC advisor.
- Have clearly articulated and purposeful reasons for which the triple majors/degrees are appropriate.
- Have not previously been denied admission as a transfer student to any of the CLAS majors.

Students must submit a program plan identifying the courses they intend to complete for all majors, as well as a statement explaining their educational goals. For some majors with potential significant overlap, students may need to complete a certain number of credits exclusive to both majors before the application may be approved. After approval, students must follow the program plan outlined in their application or the approval for the supplemental program of study will be voided.

Students can pursue triple majors/degrees only if approved in advance by the college.

Combined Bachelor's/Master's Programs

Combined bachelor's/master's programs allow students to complete two degrees more quickly. Outstanding advanced undergraduate students can apply for admission to this program. CLAS offers combined-degree programs in biology, botany, computer science, economics, French and Francophone studies, geography, geology, history, international relations, Latin American studies, linguistics, mathematics, philosophy, physics, political science, Portuguese, religion, Russian, sociology, Spanish, statistics, women's studies, and zoology.
More Info (p. 1400)

Students on financial aid should check with that office. In general, students on financial aid should retain their undergraduate status as long as possible. The program requires admission to the Graduate School.

Degree Requirements

Student Responsibility

Students are responsible for ensuring that they understand and meet all major and college degree requirements. Any questions about these requirements should be raised with a department advisor (for major requirements) or college advisor (for college requirements).

Students must meet college progression standards each term. They are expected to keep the Office of the University Registrar informed of their accurate address and to read their GatorLink email. Students also are expected to review their holds and degree audit on ONE.UF (https://one.uf.edu) each term and to discuss any questions or discrepancies with an advisor.

Graduation under a Particular Catalog

Students are placed into the catalog year for the academic year in which they entered UF unless they request to follow the academic requirements in effect when they initially enrolled in a Florida public college or other Florida state institution. Such a request is possible only if they have maintained continuous enrollment, defined as enrolling for at least one course in one term in each academic year. Students wanting to change catalog years should review a degree audit with an advisor in the AAC.

Students must meet the requirements for all programs (majors, minors, college/university requirements) for the same catalog year.

Applying for a Degree

Early in the term in which they expect to graduate, students must submit a degree application on ONE.UF (https://one.uf.edu). The academic calendar (p. 1442) will provide the deadline for a current-term degree application.

Students should meet with an advisor in the AAC before registering for their final term to review the college graduation requirements that still need to be fulfilled. Students should also meet with an advisor in the major department to verify completion of requirements for the major.

Additionally, seniors who plan to graduate should convert all I, N, and H grades to letter grades no later than the fifth week of their final semester. Seniors are responsible for ensuring that all grade changes are submitted properly and are recorded in a timely fashion.

CLAS Degree Requirements

The college has seven requirements for award of a degree. Students must also meet all requirements for the major.

Credits

All CLAS students **must** satisfactorily complete a minimum of 120 acceptable credits for the degree. Up to 30 credits earned in a UF overseas study or exchange program may be applied to this requirement. Students may petition to have more credits accepted; however, approval is rarely given.

Grade Point Average

Students must achieve a minimum overall average of C (2.0) in all work attempted at the university.

Residence

The last 30 credits applied to the degree must be completed in residence at the University of Florida. In extenuating circumstances, the last three credits may be waived by petition. Participation in a UF-approved study abroad or exchange program is not considered a break in residence. However, students must see an advisor to be sure the degree audit accurately reflects this.

University / State of Florida Requirements

To earn a degree, all students must complete:

- A general education (p. 21) program,
- The writing requirement,
- The summer term enrollment requirement, and
- The Civic Literacy requirement.

Basic Distribution

To ensure that students gain a rich and varied general education, the college requires students to complete basic distribution requirements.

Basic Distribution is comprised of the General Education Program Requirements (p. 21) plus additional credits beyond those requirements (see table below for overall credits required in each Subject Area).

- The same course may NOT be used to satisfy requirements in two different Subject Areas (C, H, S, P, or B).
- Three of the credits must also be designated as international studies (N) and three of the credits must be designated as diversity studies (D).
- A minimum grade of C is required for all courses fulfilling the general education requirement, the writing requirement, and the basic distribution requirements. The S/U grade option (p. 1438) is not acceptable for these credits.

Summary of CLAS Basic Distribution (Includes Gen Ed Program Requirements)

Subject	Credits
Composition (C)	6 credits
Mathematical Sciences (M) (including 3 credits with a math prefix)	6 credits
Humanities (H)	9 credits[1], 3 of these credits must be IDS 1161, unless student is exempt[2]
Social and Behavioral Sciences (S)	9 credits[1]
Physical Science (P)	6 credits[1]
Biological Science (B)	6 credits[1]
Natural Science Laboratory[3]	1 credit

1. Must include three credits of international studies (N) and three credits of diversity studies (D).
2. Students in the Innovation Academy program and students who transfer to UF with an A.A. from a public college or university in Florida are exempt from the requirement to take IDS 1161.
3. Natural science laboratory: A one-credit science lab with a minimum grade of C is required. Students can elect a laboratory course that is approved for the general education physical or biological sciences requirement or any psychology laboratory. (Most laboratory courses cannot be taken without prerequisite or corequisite courses.)

Electives | 3000 level or Above | Not in Major

Electives are defined as courses taken outside the major or major department. The degree program must include 18 credits of electives at the 3000 level or above. Several 2000-level natural science or mathematical science courses (those beyond the entry course in a sequence) can contribute to the 18-credit requirement.

Eligible courses are:

Code	Title	Credits
CHM 2211	Organic Chemistry 2	3
CHM 2211L	Organic Chemistry Laboratory	2
PHY 2049	Physics with Calculus 2	3
PHY 2049L	Laboratory for Physics with Calculus 2	1
PHY 2054	Physics 2	4
PHY 2054L	Laboratory for Physics 2	1
MAC 2234	Survey of Calculus 2	3
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
MAC 2512	Calculus 2 for Advanced Placement Students	4
MAP 2302	Elementary Differential Equations	3

Elective course selection will depend on goals and interests. Some students may choose to use electives to pursue a minor or a double major/dual degree.

Foreign Language

CLAS students must demonstrate proficiency in a foreign language. Foreign language is an important component of a liberal education. Study of foreign languages provides access to the cultural and intellectual heritage of cultures other than one's own. Such study also provides a new perspective on the structure and complexity of the English language.

Proficiency in a foreign language is considered to be the level of skill a student has upon completion of a beginning language sequence at UF. Students do not need to earn a certain number of credits to complete this requirement. It can be met in ONE of the following ways:

- Satisfactory completion (minimum grade of C or S) of the terminal course in a beginning foreign language sequence (normally at the end of 10 credits at UF). Students may take foreign language requirement courses on an S/U basis (S = C or better).
- A score of three or above in an Advanced Placement foreign language exam.
- A score of four to seven on an International Baccalaureate foreign language exam.
- A score of A-E on an AICE foreign language exam (except for the Latin Literature A level exam).
- Certain scores on CLEP foreign language exams give credit for the terminal course in the beginning sequence of a foreign language. Those scores meet the CLAS foreign language requirement. Consult the CLEP course equivalency chart (p. 1408) for more course credit granted.
- A passing score on the Foreign Language Proficiency Exam (FLPE) (https://teachingcenter.ufl.edu/testing/flpe). Mandarin Chinese and Russian language proficiency testing will be handled by those UF language programs. Students should contact the Chinese or Russian programs for information on assessing proficiency.

Students who are proficient in languages not available through FLPE should speak with a general advisor in the Academic Advising Center (https://www.advising.ufl.edu).

Students in this college can study the following languages: Akan, American Sign Language, Amharic, Ancient Greek, Arabic, Catalan, Chinese, Czech, Dutch, French, German, Haitian Creole, Hebrew, Hungarian, Italian, Japanese, Latin, Lingala, Modern Greek, Polish, Portuguese, Russian, Sanskrit, Spanish, Swahili, Turkish, Vietnamese, Wolof, Yoruba, and Xhosa.

Placement in Foreign Language

Students who have studied a language in high school and wish to continue that language should refer to the placement page or consult the department for placement information.
More Info (p. 1414)

Graduating with Honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

Programs

MAJORS

A major consists of a concentration of coursework in a specific department or program. The number of credits required for a major will vary from department to department, but in no case may the number of credits be fewer than 24 nor more than 40.

Students must earn minimum grades of C in all courses required for the major. Requirements for a major cannot be taken S-U (unless that is the only grading option). All transfer credit in the major must be approved by the department.

Explore all of the college's majors and related career paths (http://www.clas.ufl.edu/majors).

- African Languages
- African-American Studies
- Anthropology
- Arabic
- Astronomy and Astrophysics
- Biology | CLAS
- Botany | CLAS
- Chemistry | Biochemistry
- Chinese
- Classical Studies
- Computer Science | CLAS
- Criminology
- Economics
- English
- Foreign Languages and Literatures
- French and Francophone Studies
- Geography
- Geology
- German
- Hebrew
- Hispanic and Latin American Languages, Literatures and Linguistics
- History
- Interdisciplinary Studies | CLAS
- International Studies
- Italian
- Japanese

- Jewish Studies
- Linguistics
- Marine Sciences | CLAS
- Mathematics
- Microbiology and Cell Sciences | CLAS
- Philosophy
- Physics
- Political Science
- Portuguese
- Psychology
- Religion
- Russian
- Sociology
- Spanish
- Statistics
- Sustainability Studies
- Women's Studies
- Zoology

MINORS

The minor provides a traditional, well-accepted way to recognize that a student has completed a significant body of work outside the major. A minor shall consist of no fewer than 15 semester credits of coursework, earned with minimum grades of C. At least three courses (none can be individual work) of no fewer than three credits each must be at the 3000 level or above. Of the total credits, no more than three may be individual work. Students should consult an advisor in the appropriate department for the requirements for each minor.

A minor may not inherently overlap with the student's major (e.g., a history major may not declare a history minor, even if the student takes additional history credits beyond what is required for the major). In addition, students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the student's major(s) or other minor(s).

View the AAC website (https://www.advising.ufl.edu/academicinfo/minors) for information on eligibility, considering a minor and how to apply for a minor. The site also provides a list of majors/minor combinations that will not be approved due to overlap. This list is not all-inclusive; for each minor application an AAC advisor will review whether your intended major/minor combination is acceptable.

- Actuarial Science Minor
- African Studies Minor
- African-American Studies Minor
- American Indian and Indigenous Studies Minor
- Anthropology Minor
- Arabic Language and Literature Minor
- Asian Studies Minor
- Asian-American Studies Minor
- Astronomy Minor
- Botany Minor
- Chemistry Minor
- Classical Studies Minor
- Communication Studies Minor
- East Asian Languages and Literatures Minor
- East-Central European Studies Minor
- Economics Minor
- English Minor
- European Union Studies Minor
- French and Francophone Studies Minor
- Geography Minor
- Geology Minor
- German Minor
- Greek Studies Minor
- Health Disparities in Society Minor
- Hebrew Minor
- History Minor
- Innovation Minor
- Italian Studies Minor
- Jewish Studies Minor
- Latin American Studies Minor
- Linguistics Minor
- Mathematics Minor
- Medical Geography in Global Health Minor
- Medieval and Early Modern Studies Minor
- Philosophy Minor
- Physics Minor
- Portuguese Minor
- Public Leadership Minor
- Religion Minor
- Religious Ethics Minor
- Russian Minor
- Sociology Minor
- Spanish Minor
- Statistics Minor
- Sustainability Studies Minor
- Teaching English as a Second Language Minor
- Theories and Politics of Sexuality Minor
- Women's Studies Minor
- Zoology Minor

CERTIFICATES

Each certificate program must have at least nine credits that are exclusive to the certificate and may not count toward any other certificate or minor. All courses required must be completed with minimum grades of C or S in each course.

- East-Central European Studies Certificate
- European Jewish Studies Certificate
- European Union Studies Certificate
- Geological Sciences Certificate
- Geospatial Information Analysis Certificate
- Holocaust Studies Certificate
- International Relations Certificate
- Latin American Studies Certificate
- Legal History
- Medical Anthropology Certificate

- Medical Geography Certificate
- Meteorology and Climatology Certificate
- Political Campaigning Certificate
- Public Affairs Certificate
- Russian and East-European Area Studies Certificate
- Spanish for the Professions Certificate
- Teaching English as a Second Language Certificate

UF ONLINE MAJORS

- Anthropology UF Online
- Biology UF Online
- Computer Science UF Online
- Criminology UF Online
- Geography UF Online
- Geography | Environmental Geosciences
- Geology UF Online
- Psychology UF Online
- Sociology UF Online

UF ONLINE MINORS

- Anthropology Minor UF Online
- Geography Minor UF Online
- Sociology Minor UF Online

Actuarial Science Minor

The actuarial science minor prepares students for careers as actuaries.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 36 | Completed with minimum grades of C and no optional S-U
- **Additional Information**

The required courses cover the material for the beginning examinations and VEE credits leading to an associateship in the major national actuarial societies.

A minimum of 12 credits must be completed at UF. VEE credits require minimum grades of B in designated courses.

Required Courses

Code	Title	Credits
Mathematics		
Select one:		4
MAC 2312	Analytic Geometry and Calculus 2	
MAC 2512	Calculus 2 for Advanced Placement Students	
MAC 3473	Honors Calculus 2	
MAC 2313	Analytic Geometry and Calculus 3	4
or MAC 3474	Honors Calculus 3	
Statistics		
STA 4183	Theory of Interest	3
STA 4210	Regression Analysis	3
STA 4321	Introduction to Probability	3
STA 4322	Introduction to Statistics Theory	3
Business Administration		
ACG 2021	Introduction to Financial Accounting	4
ECO 2013	Principles of Macroeconomics	4
ECO 2023	Principles of Microeconomics	4
FIN 3403	Business Finance	4
Total Credits		36

African Languages

Foreign Languages and Literatures

The specialization in African Languages enables students to develop the critical, analytical, and interpretive tools essential for successfully working and living in today's increasingly globalizing world. It focuses on a selected group of languages that function as languages of wider communication (lingua franca) in their sub-Saharan African regions. Through study of these languages students not only gain communicative proficiency in the language(s) of their choice, but also an understanding of the diverse literary and cultural traditions that make Africa such a unique and complex continent today.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in Foreign Languages and Literatures (FLL) provides students with a comprehensive knowledge of a specific language (or languages) and advanced familiarity with the cultural practices and traditions associated with the language(s) of specialization. The major in FLL enhances critical thinking and communication skills and provides students with a cross-cultural understanding of our contemporary world. The program allows students the flexibility to explore a single or dual language specialization as well as the opportunity to study culture through interdisciplinary fields of critical concentration, such as Comparative Cultural Studies, Film and Visual Culture, Intensive Area Studies, Literary Studies, and Medieval and Early Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security, communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

Foreign Languages and Literatures Options (p. 691)

The African languages specialization of the Foreign Languages and Literatures major offers students the opportunity to gain proficiency in any of the following languages:

- Akan/Twi (Ghana – West Africa)
- Amharic (Ethiopia - the Horn of Africa)
- Swahili (eastern and central Africa)
- Wolof (Senegal and the Gambia – West Africa)
- Yoruba (Nigeria and Benin – West Africa and the Diaspora)
- Zulu (South Africa)

The specialization in African languages offers a unique opportunity when it comes to seeking employment in multi-national corporations or research undertakings based on the African continent. It also prepares students for the rigors of graduate studies in the humanities and for fields such as comparative literature, religious/diaspora studies, African cinema, developmental practices, humanitarian services, language learning businesses, translations & interpretation for United Nations organizations and other international agencies, to mention just a few.

Our faculty brings together scholars with diverse research interests, ranging from African oral literature through post-colonial African women writers, from language documentation to languages of urban Africa as well as contemporary African film, pop-culture, and media. These nationally and internationally recognized researchers are also dedicated and innovative teachers who draw on their own scholarship to offer a variety of courses in literature, cinema, linguistics, and language.

Coursework for the Major

The African languages specialization in Foreign Languages and Literatures consists of preparatory language study at the lower division (1000 and 2000 level), and 33 hours of advanced language, theory, and culture study in the upper division (3000 level and above).

All coursework for the major must be completed with minimum grades of C.

Code	Title	Credits
Required Foundation Coursework		
Select one:		5
AKA 1130	Beginning Akan 1	
SWA 1130	Beginning Swahili 1	
WOL 1130	Beginning Wolof 1	
XHO 1130	Beginning Xhosa 1	
YOR 1130	Beginning Yoruba 1	
Select one in the same language:		5
AKA 1131	Beginning Akan 2	
SWA 1131	Beginning Swahili 2	
WOL 1131	Beginning Wolof 2	
XHO 1131	Beginning Xhosa 2	
YOR 1131	Beginning Yoruba 2	
Select one in the same language:		3

AKA 2200	Intermediate Akan 1	
SWA 2200	Intermediate Swahili 1	
WOL 2200	Intermediate Wolof 1	
XHO 2200	Intermediate Xhosa 1	
YOR 2200	Intermediate Yoruba 1	
Select one in the same language:		3
AKA 2201	Intermediate Akan 2	
SWA 2201	Intermediate Swahili 2	
WOL 2201	Intermediate Wolof 2	
XHO 2201	Intermediate Xhosa 2	
YOR 2201	Intermediate Yoruba 2	
LIN 3010	Introduction to Linguistics	3
HUM 2420	African Humanities	3
or HUM 2424	African Cultures and Literatures	
Required Core Coursework		
Advanced Language and Culture		
Select one:		3
AKA 3410	Advanced Akan 1	
SWA 3410	Advanced Swahili 1	
WOL 3410	Advanced Wolof 1	
XHO 3410	Advanced Xhosa 1	
YOR 3410	Advanced Yoruba 1	
Select one:		3
AKA 3411	Advanced Akan 2	
SWA 3411	Advanced Swahili 2	
WOL 3411	Advanced Wolof 2	
XHO 3411	Advanced Xhosa 2	
YOR 3411	Advanced Yoruba 2	
SSA 4930	Special Topics in African Studies (Languages of Africa)	3
SST 4502	African Oral Literature	3
SSA 4930	Special Topics in African Studies (Readings in African Literature 1)	3
Advanced Elective Coursework		
Select 9 credits (with at least 6 credits at the 4000 level):		9
SSA 3730	Language in African Society	
SSA 4905	Individual Work (3 credit maximum)	
SSA 4930	Special Topics in African Studies	
SSA 4930	Special Topics in African Studies (African Autobiography)	
SSA 4930	Special Topics in African Studies (African Film)	
SSA 4930	Special Topics in African Studies (African Popular Culture)	
SSA 4930	Special Topics in African Studies (Black Englishes)	
SSA 4930	Special Topics in African Studies (Islam & African Literature)	
SSA 4930	Special Topics in African Studies (Language Documentation)	
SSA 4930	Special Topics in African Studies (Readings in African Literature 2)	
SSW 3303	Swahili Oral Literature	
SSW 4713	African Women Writers	
SWA 4905	Individual Study (3 credit maximum)	
SWW 4100	Readings in Swahili	
YOR 4502	Yoruba Oral Literature	
YOR 4905	Individual Study (3 credit maximum)	
YOT 3500	Yoruba Diaspora in the New World	
YRW 4130	Readings in Yoruba Literature	
Critical Concentration		
Select nine credits from one area: [1]		9
Intensive Area Studies: African [2]		
Comparative Cultural Studies		
Film and Visual Culture		
Literary Studies		
Medieval and Early Modern Studies		
Total Credits		55

[1] Although courses may appear in more than one group they may be counted toward only one group.

[2] Recommended for those planning to pursue careers requiring advanced level skills in African languages or graduate work in African studies.

Overseas Study

Students should speak with the Undergraduate Coordinator to discuss overseas study options in Africa.

Placement

In all languages, students with either a native background in the language or prior study in that language, might be eligible to place out of the preparatory language courses and should meet with the undergraduate coordinator to arrange for placement assessment.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160501&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete Beginning African Language 1 or higher-level African Language course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete Beginning African Language 2 or higher-level African Language course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete Intermediate African Language 1 or a higher-level African Language course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). 3000 level or above critical concentration courses outside of African Languages may count toward the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one (**Critical Tracking**):		5
AKA 1130	Beginning Akan 1	
SWA 1130	Beginning Swahili 1	
WOL 1130	Beginning Wolof 1	
XHO 1130	Beginning Xhosa 1	
YOR 1130	Beginning Yoruba 1	
State Core Gen Ed Biological or Physical Sciences (p. 23)		3

State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		1
	Credits	15
Semester Two		
Select one (**Critical Tracking**):		5
AKA 1131	Beginning Akan 2	
SWA 1131	Beginning Swahili 2	
WOL 1131	Beginning Wolof 2	
XHO 1131	Beginning Xhosa 2	
YOR 1131	Beginning Yoruba 2	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological or Physical Sciences (area NOT taken in semester one)		3
State Core Gen Ed Mathematics (p. 23)		3
Science laboratory (Gen Ed Biological or Physical Sciences)		1
	Credits	15
Semester Three		
Select one (**Critical Tracking**):		3
AKA 2200	Intermediate Akan 1	
SWA 2200	Intermediate Swahili 1	
WOL 2200	Intermediate Wolof 1	
XHO 2200	Intermediate Xhosa 1	
YOR 2200	Intermediate Yoruba 1	
Select one:		3
HUM 2420	African Humanities (Gen Ed Humanities and International)	
HUM 2424	African Cultures and Literatures (Gen Ed Humanities and International)	
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Four		
Select one:		3
AKA 2201	Intermediate Akan 2	
SWA 2201	Intermediate Swahili 2	
WOL 2201	Intermediate Wolof 2	
XHO 2201	Intermediate Xhosa 2	
YOR 2201	Intermediate Yoruba 2	
LIN 3010	Introduction to Linguistics	3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences and Diversity		3
Elective (3000 level or above; not in major)		3
	Credits	15
Semester Five		
Select one:		3
AKA 3410	Advanced Akan 1	
SWA 3410	Advanced Swahili 1	
WOL 3410	Advanced Wolof 1	
XHO 3410	Advanced Xhosa 1	
YOR 3410	Advanced Yoruba 1	
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Advanced elective (3000 level; in the major)		3
Critical concentration course		3
	Credits	15
Semester Six		
Select one:		3
AKA 3411	Advanced Akan 2	
SWA 3411	Advanced Swahili 2	
WOL 3411	Advanced Wolof 2	
XHO 3411	Advanced Xhosa 2	
YOR 3411	Advanced Yoruba 2	

SSA 4930	Special Topics in African Studies (Languages of Africa)	3
Advanced elective (4000 level or above; in the major)		3
Critical concentration course		3
Elective (3000 level or above; not in major)		3
	Credits	15
Semester Seven		
SSA 4930	Special Topics in African Studies (Readings in African Literature 1)	3
Advanced electives (4000 level or above; in the major)		3
Electives (3000 level or above; not in major)		6
Elective or senior thesis option		3
	Credits	15
Semester Eight		
SST 4502	African Oral Literature	3
Electives (3000 level or above; not in major)		6
Critical concentration courses		6
	Credits	15
	Total Credits	120

Critical Concentration Courses

9 Credits from One Concentration

Although courses may appear in more than one group they may be counted toward only one group

Code	Title	Credits
Intensive Area Studies: African		
Recommended for those planning to pursue careers requiring advanced level skills in African languages or graduate work in African studies		
SSA 3730	Language in African Society	3
SSA 4930	Special Topics in African Studies (African Autobiography)	3
SSA 4930	Special Topics in African Studies (African Film)	3
SSA 4930	Special Topics in African Studies (African Popular Culture)	3
SSA 4930	Special Topics in African Studies (Black Englishes)	3
SSA 4930	Special Topics in African Studies (Islam & African Literature)	3
SSA 4930	Special Topics in African Studies (Language Documentation)	3
SSA 4930	Special Topics in African Studies (Readings in African Literature 2)	3
SSA 4930	Special Topics in African Studies	3
SSW 4713	African Women Writers	3
YOR 4502	Yoruba Oral Literature	3
YOT 3500	Yoruba Diaspora in the New World	3
YRW 4130	Readings in Yoruba Literature	3
Comparative Cultural Studies		
ABT 3500	Arabic Culture	3
ABT 4131	The Qur'an as Literature	3
ARA 3510	The Arab Woman	3
CHI 3403	Chinese Calligraphy	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CZT 3564	Modern Czech Culture and Society	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3003	German Culture and Civilization 1	3
GET 3004	Modern German Culture and Civilization	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
HAI 3930	Haitian Culture and Society	3
HAT 3564	Haitian Culture and Society	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JMT 3500	Jamaican Creole, Reggae, and Rastafari	3
JPT 3500	Japanese Culture	3

JPT 4502	Japanese Folklore	3
RUT 3443	War and Peace	3
RUT 3500	Russian Cultural Heritage	3
RUT 3501	Contemporary Russian Culture and Society	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3504	Russia Today	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 4450	Russian Modernism	3
VTT 3500	Vietnamese Culture	3
YOT 3500	Yoruba Diaspora in the New World	3
Film and Visual Culture		
CHI 4930	Special Topics in Chinese Studies	3
CHT 3391	Chinese Film and Media	4
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	4
FRT 3520	French Cinema	4
FRT 3561	Women in French Literature and/or Cinema	3-4
FRT 4523	European Identities, European Cinemas	4
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
HBR 4930	Special Topics	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPN 4930	Special Topics in Japanese Studies	3
JPT 3391	Introduction to Japanese Film	4
JPT 3702	Japanese Visual Culture	3
PLT 3520	Polish Cinema	4
RUT 3524	Russia through Film	3
SSA 4930	Special Topics in African Studies (African Film)	3
Literary Studies		
ABT 3130	Arabic Literary Heritage 1	3
ABT 4131	The Qur'an as Literature	3
CHI 4930	Special Topics in Chinese Studies	3
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 4111	Dream of the Red Chamber	3
CHI 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3200	Medieval Literary Culture	3
GET 3501	History, Literature and Arts of Berlin	3
GET 3580	Representations of War in Literature and Visual Media	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3-9
GET 4930	Variable Topics in German Studies	3-9
HAT 3503	Haitian Culture and Literature in Translation	3
HBR 4930	Special Topics	3
HBT 3223	Identity and Dissent in the Hebrew Short Story	3
HBT 3233	Israeli History and the Contemporary Novel	3
HBT 3563	Women in Modern Hebrew Fiction	3
HBT 3564	Motherhood in Modern Hebrew Literature	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3

ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3140	Modern Women Writers	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
PLT 3930	Special Topics in Polish Studies	3
RUT 3101	Russian Masterpieces	3
RUT 3441	Tolstoy and Dostoevsky	3
RUT 3442	Themes from Russian Literature	3
RUT 3443	War and Peace	3
RUT 3452	Russian Literature of the Twentieth Century	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 3930	Variable Topics in Russian Studies	3
RUT 4440	Pushkin and Gogol	3
RUT 4450	Russian Modernism	3
SST 4502	African Oral Literature	3
SSW 3303	Swahili Oral Literature	3
SSW 4713	African Women Writers	3
VTN 4930	Special Topics in Vietnamese Studies	3
YOR 4502	Yoruba Oral Literature	3
Medieval and Early Modern Studies		
ARA 3510	The Arab Woman	3
CHI 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4603	Journey to the West	3
GET 3200	Medieval Literary Culture	3
ITT 3431	Italy and Pilgrimages	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
MEM 3003	Introduction to the Medieval World	3
MEM 3300	Castles and Cloisters: An Introduction to Medieval Communities	3
MEM 3301	Palaces and Cities: An Introduction to Early Modern Communities	3
MEM 3730	Studies in the Holy Roman Empire	3
MEM 3805	Research Methods in Medieval and Early Modern Studies	1
MEM 3931	Variable Topics in Medieval and Early Modern Studies	3

Academic Learning Compact

The Foreign Languages and Literatures (FLL) major enables students to achieve communicative competence in their language(s) of specialization. Students will become knowledgeable in the culture and literature and/or linguistics associated with their language area(s) such that they will be able to critically analyze and evaluate authentic sources in the target language(s) and formulate independent, critical perspectives in the target language(s). Further, students will learn the intercultural skills and practical know-how necessary to negotiate traveling, studying, and living in the target culture(s).

Before Graduating Students Must

- Satisfy the Florida statutes for the College-Level Academic Skills Requirement.
- Complete requirements for the baccalaureate degree, as determined by faculty.
- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and define cultural concepts, literary production, and/or linguistic structure in language(s) of specialization.

Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I, R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

African Studies Minor

A minor in African studies provides a solid foundation for careers in teaching, research and other professional work for which knowledge of Africa is essential. The faculty is composed of more than 100 members campus-wide who teach courses with African content.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** 427 Grinter Hall (http://campusmap.ufl.edu/?loc=0002) | 352.392.2183
- **Additional Information**
- **Related African Studies Programs**

Choose to complete a general concentration or select a track:

- Track One: Languages and Linguistics
- Track Two: Arts and Literatures
- Track Three: Culture, History, and Politics
- Track Four: Environment, Resources, and Development

The Center for African Studies offers semester and academic-year programs at the University of Dar es Salaam (Tanzania) and Makerere University (Uganda), as well as various summer programs.

The list of approved Africa-related electives can be found on the Center for African Studies website.
More Info (https://africa.ufl.edu)

Requirements, General Concentration

- Students seeking to apply UF study abroad credit toward the minor must complete one three-credit minor course in residence at UF.
- Transfer students must complete at least two three-credit minor courses in residence at UF.

- No more than three credits of 4905 coursework (Individual Work) can be used toward the minor and none of the credits can apply to the 3000-level or above elective requirement.
- Students must complete a minimum of six credits exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
Select one:		3
AFH 2000	Africa in World History	
AFS 2002	The African Experience: An Introduction to African Studies	
HUM 2420	African Humanities	
African studies approved elective (2000-level or above)		3
African studies approved electives (3000-level or above)		9
Total Credits		15

Related African Studies Programs

- Bachelor of Arts in International Studies, Africa (p. 810)
- Bachelor of Arts in Foreign Languages and Literatures, African Languages (p. 517)

African-American Studies

The primary emphasis of the African-American studies program is to educate students about the theories and methodologies pertaining to the study of African-Americans. Students will be able to compare and contrast the experiences of people of African descent in the U.S. to those in the wider African Diaspora. They will also learn through participation in community-service activities.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Related African-American Studies Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This interdisciplinary major provides students with vital writing, research, and communication skills. The curriculum emphasizes anthropology, mass communications, education, English, history, linguistics, political science, psychology, religion, and sociology. The program also includes courses that emphasize US-Canadian, US-Caribbean, and US-African relations and assists students in finding internships for college credit and in applying for study abroad programs.

After obtaining a degree in African-American studies, students can seek careers as archivists, attorneys, civil rights professionals, community organizers, government employees, librarians, public policy professionals, professors, teachers, and researchers. Graduates will also be prepared to enter graduate programs in African-American studies and other liberal arts fields, professional degree programs, and teacher-training programs.

Coursework for the Major

The major requires 30 credits of coursework in African-American studies core and elective courses. All coursework must be completed with minimum grades of C. A minimum of 15 credits of coursework in the major must be completed at UF. Core and elective courses are often cross-listed with other departments, enabling students to examine the African-American experience from a variety of disciplines.

Required Coursework

Code	Title	Credits
AFA 2000	Introduction to African-American Studies	3
AFA 3110	Key Issues in African-American and Black-Atlantic Thought	3
AFA 4936	African-American Studies Senior Integrative Seminar	3
Select one:		3
AFA 3332	Black Feminist and Womanist Theory	
AFA 3350	Black Masculinity	
AFA 3354	Race, Religion and Rebellion	
AFA 3356	African American Religion	
AFA 3357	Civil Rights and Religion	
AFA 3360	Archaeology of African-American Life and Culture	

AFA 3363	The Black Experience: Psychological Perspectives	
AFA 4352	Black Hair Politics	
AFA 4430	Black Lives Matter	
AMH 4575	Civil Rights Movements	
POS 4077	African American Politics and Policy	
POS 4624	Race, Law and the Constitution	
Select one:		3
AFA 3850	Research Methods in African-American History	
AFA 3915C	Mentoring At-Risk Youth	
AFA 4135	Theories of Black America	
AFH 4930	History Research Seminar: Africa	
AMH 4930	History Research Seminar: US	
ENC 3254	Professional Writing in the Discipline	
ENC 2305	Analytical Writing and Thinking	
POS 4734	Research Methods in Political Science	
REL 3931	Junior Seminar	
REL 4932	Thesis Seminar in Religion	
STA 2023	Introduction to Statistics 1	
STA 3024	Introduction to Statistics 2	
STA 4322	Introduction to Statistics Theory	
WST 4935	Capstone Seminar	
AFA-prefixed courses at the 3000 level or higher		6
AFA-prefixed (any level) or AFA-approved courses		9
Total Credits		30

The same course may not be used to meet two different requirements.

Overseas Study

The African-American Studies Program sponsors two study abroad courses. The two-credit African Americans in Paris course is offered during the spring semester and includes the study of the African-American cultural, historical and political experience in Paris, France. Students travel to Paris during spring break. In addition, the three-credit Role of Ghana in the African-American Experience course is offered for two weeks in June of each year.

Related African-American Studies Programs

- African-American Studies minor (p. 530)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree (p. 506)**.**

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=050201&track=01) may be used for transfer students.

Semester 1

- 2.0 GPA required

Semester 2

- Complete AFA 2000
- 2.0 GPA required

Semester 3

- 2.0 GPA required

Semester 4

- 2.0 GPA required for all critical-tracking courses
- 2.0 GPA required

Semester 5

- Complete AFA 3110 and two additional AFA-prefixed or AFA-approved (http://catalog.ufl.edu/UGRD/majors/AFA_BA/#modelsemesterplantext) courses with a 2.0 GPA required for all critical-tracking courses
- 2.0 GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
Foreign language		4-5
	Credits	13-14
Semester Two		
AFA 2000	Introduction to African-American Studies (**Critical Tracking**; Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		3-5
	Credits	15-17
Semester Three		
AFA 3110	Key Issues in African-American and Black-Atlantic Thought (**Critical Tracking**; Gen Ed Diversity and Humanities)	3
Gen Ed Social and Behavioral Sciences		3
Elective (or foreign language if 4-3-3 option)		3
Electives		6
	Credits	15
Semester Four		
AFA-prefix course (**Critical Tracking**; 3000 level and above)		3
AFA-prefix course or AFA-approved course (**Critical Tracking**)		3
Gen Ed Biological or Physical Sciences (area NOT taken in semester 2)		3
Gen Ed Mathematics		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
AFA-prefix course or AFA-approved course		3
Gen Ed Biological Sciences		3
Elective (3000 level and above; not in major)		3
Electives		7
	Credits	16
Semester Six		
AFA-prefix course (3000 level and above)		3
AFA-prefix course or AFA-approved course		3
Applied, experiential, or research methods course		3
Gen Ed Composition; Writing Requirement		3
Elective		3
	Credits	15
Semester Seven		
AFA required course		3
Electives (3000 level and above; not in major)		6
Gen Ed Physical Sciences		3

Science laboratory (Gen Ed Biological or Physical Sciences)		1
Elective		3
	Credits	16
Semester Eight		
AFA 4936	African-American Studies Senior Integrative Seminar	3
Electives (3000 level and above; not in major)		9
Elective		3
	Credits	15
	Total Credits	120

AFA-Approved Courses

Many of the non-AFA courses listed below will have cross-listed AFA sections available. Please review the African-American studies course offerings each semester.

Code	Title	Credits
AMH 3931	Special Topics in American History (African-American Diaspora)	3
AMH 3931	Special Topics in American History (African-Americans in the Jim Crow South)	3
AMH 4571	American Civil War and Reconstruction	3
AMH 4575	Civil Rights Movements	3
AML 3605	African-American Literature 1	3
AML 3607	African-American Literature 2	3
AML 3673	Asian-American Studies (Asian-American/African-American Interactions)	3
AML 4453	Studies in American Literature and Culture (Women Writing About Race)	3
AML 4685	Race and Ethnicity (Race and Ethnicity in American Literature and Culture)	3
AML 4685	Race and Ethnicity (African-American Women and Culture Critique)	3
ANT 3930	Junior Topics Class in Anthropology (The Slave Narrative)	3
GEA 3600	Geography of Africa	3
LIT 4188	World English Language Literatures (Pre 1950 Anglo Caribbean Literature)	3
LIT 4930	Variable Topics in Literature and Language (Black Englishes)	3
MUH 4016	History of Jazz	3
POS 4077	African American Politics and Policy	3
POS 4624	Race, Law and the Constitution	3
REL 3139	African-American Religion	3
REL 3179	Race, Religion and Rebellion	3
SYD 3700	Minorities in American Society	3
SYG 2010	Social Problems	3
SYO 4102	American Families	3

Academic Learning Compact

The African-American Studies program's mission closely resembles that of the university, emphasizing exceptional teaching, outstanding scholarly research and service to the campus and the larger Gainesville community. The primary emphasis is to educate students about the theories and methodologies pertaining to the study of African-Americans. Students will be able to compare and contrast the experiences of people of African descent in the U.S. to those in the wider African Diaspora. They also will learn through participation in community-service activities. Program graduates will develop the academic, scholarly and experiential skills needed to succeed at the next level of study in the field, for they will be well-trained in critical thinking, analysis and effective communication.

Before Graduating Students Must

- Satisfactory evaluation of paper written for the African-American Studies approved topic, graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the theories in African American Studies and the African Diaspora.

Critical Thinking

2. Examine social issues of concern to African Americans.

Communication

3. Effectively articulate ideas in speech and in writing.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
AFA 2000	I, R, A		
AFA 3110	I, R, A	R, A	
AFA 3240	R, A	R, A	R, A
AFA 3332	R, A	R, A	R, A
AFA 3350	R, A	R, A	R, A
AFA 4936	R, A	R, A	R, A

Assessment Types

- Assignments
- Exams
- Papers
- Oral presentations

African-American Studies Minor

This minor explores the applied roots of African-American studies with investigation of a range of perspectives in the African diaspora.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C and no optional S-U
- **Additional Information**
- **Related African-American Studies Programs**

Of the total credits, no more than three may be individual work or internship credit. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
AFA 2000	Introduction to African-American Studies	3
AFA courses (3000/4000 level)		6
AFA 3110	Key Issues in African-American and Black-Atlantic Thought	3
AFA 4936	African-American Studies Senior Integrative Seminar	3
Total Credits		15

Related African-American Studies Programs

- Bachelor of Arts in African-American Studies (p. 526)

American Indian and Indigenous Studies Minor

The American Indian and indigenous studies minor focuses on North, Central, and South America with additional interdisciplinary focus in anthropology, art history, history, literature, and religion.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C and no optional S-U
- **Related American Indian and Indigenous Studies Programs**

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors. Three of the courses must be taken at the University of Florida.

The election of a minor is noted on a student's transcript, but it is not reflected on the diploma. Students should consult the catalog for important undergraduate information and description of AIIS courses.

Required Courses

Code	Title	Credits
ANT 3153	North American Archaeology	3
REL 2388	Indigenous Religions of the Americas	3
Approved Electives [1]		12
Total Credits		18

[1] Students may select electives with approval of the coordinator.

Approved Electives

Code	Title	Credits
History, Art and Art History, Anthropology, Literature		
AML 3285	Variable Surveys of American Literatures	3
ANT 3162	Aztec Civilization	3
ANT 3164	The Inca and Their Ancestors	3
ANT 3241	Anthropology of Religion	3
ANT 4168	Maya Civilization	3
ANT 4323	People of Mexico and Central America	3
ANT 4336	The Peoples of Brazil	3
ANT 4392	Peoples of the Artic	3
ANT 4930	Special Topics in Anthropology	3-5
ANT 4956	Overseas Studies in Cultural Anthropology	3-9
ARH 3513	Art, Culture and Power in Africa	3
ARH 3522	Contemporary African Art	3
ARH 3585	The Arts of Oceania	3
ARH 3652	Ancient Andean Art	3
ARH 3653	MesoAmerican Art	3
ARH 4514	Arts of Southern Africa	3
LAH 3130	Colonial Latin America	3
LAS 4935	Latin American Area Seminar	3
Religion		
REL 3022	Myth and Ritual	3
REL 3098	Religion Medicine and Healing	3
REL 3103	Religion and Nature in North America	3
REL 3370	Religions of Africa	3
REL 3938	Special Topics in Religion	3
REL 4168	Religion, Nature and Social Change	3
REL 4936	Special Topics in Religious Studies	3
RLG 5937	Top Relig Studies (Contemporary Shamanisms)	3
RLG 6137	Relig and Amer Culture (Indigenous Religions of the Americas)	3
Environmental Relations and Analysis		
ANT 4403	Environment and Cultural Behavior	3
ANT 4930	Special Topics in Anthropology	3-5
GEO 3427	Plants, Health and Spirituality	3
LAS 4935	Latin American Area Seminar	3
WIS 2552	Biodiversity Conservation: Global Perspectives	3
WIS 4523	Human Dimensions of Natural Resource Conservation	3
WIS 3434	Tropical Wildlife	3
Political Science		
POS 4931	Special Topics	3

Related American Indian and Indigenous Studies Programs

- Bachelor of Arts in Interdisciplinary Studies, American Indian and Indigenous Studies (p.)

Anthropology

Anthropology is the study of people in their cultural context and the examination of all aspects of patterned social behavior. The discipline is worldwide in scope and encompasses all aspects of human, biological, and social life from earliest times to the present. It is a broad, holistic field that seeks to understand human adaptation to natural and social environments.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 534) | Bachelor of Science (p. 538)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Anthropology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Anthropology includes four subfields: cultural anthropology, archaeology, biological anthropology, and linguistics. Undergraduates may concentrate their studies in one of these four subfields or pursue a focus in an interdisciplinary track with another major or minor. The anthropology major has two different programs: the Bachelor of Arts and the Bachelor of Science. Coursework for the major will depend upon the program, both of which are flexible. Both degrees are earned in anthropology rather than in any one subfield.

Students who are uncertain of a program should contact the Department of Anthropology's undergraduate coordinator for information and curriculum planning.

B.A. in Anthropology

Provides a broad-based liberal arts education and prepares students to work in an increasingly complex world. B.A. majors learn about different groups of people, their prehistory, and their biological and cultural diversity through disciplines that combine social science, natural science, and the humanities. Many undergraduate anthropology majors go on to graduate school in the social sciences, while others use anthropology to prepare themselves for professional careers in other disciplines. In a world of increasing globalization and need for effective international relations and understanding, anthropology is a highly relevant liberal arts and sciences major for students interested in pursuing careers in business, education, government, health, and law.

B.S. in Anthropology

Provides a degree option that blends their interest in basic science with the holistic lens of anthropology. B.S. majors engage in anthropology through coursework, lab and field-based research, and outreach. A grounding in scientific-based research, community initiatives, and multicultural skillsets enables our students to address pressing needs in both local and global contexts. For example, students often participate in independent and collaborative initiatives on and off campus and receive pre-graduate training in life sciences, health-related disciplines, natural history, and/or archaeological science fields. A B.S. in anthropology will encourage students to develop STEM-based skill sets and enhance scientific inquiry to address salient anthropological issues. This degree inevitably draws upon multidisciplinary fields including anatomy, biology, chemistry, ecology, engineering, genetics, geology, physics, mathematics, statistics, zoology, and botany.

Coursework for the Major

Both the B.A. and the B.S. require a minimum of 34 semester credits in anthropology and all coursework must be completed with minimum grades of C. A minimum of 18 credits of anthropology coursework must be completed at UF.

For the BS degree, all required anthropology, and required related coursework must be completed with a minimum GPA of 2.5.

Overseas Studies

Students concentrating in any subfield, particularly cultural anthropology and/or archaeology, are also encouraged to complete either an ethnographic study abroad program or an archaeological field school before their senior year.

Relevant Minors and/or Certificates

The department encourages students pursuing the B.A. to choose a minor or an interdisciplinary certificate option in African studies, Asian studies, environmental studies, Jewish studies, Latin American studies, linguistics or women's studies. Relevant courses in anthropology may be used to fulfill some requirements.

Related Anthropology Programs

- Bachelor of Arts in Anthropology, UF Online (p. 546)
- Anthropology minor (p. 544)
- Anthropology minor, UF Online (p. 545)

Academic Learning Compact

Students will develop critical thinking, problem solving and communication skills in the social sciences and in studies of natural history pertaining to human and non-human primates. Through study of human biological and cultural history and diversity, students will learn holistic, comparative and relative perspectives of anthropology, both scientific and humanistic. Emphasis is on critical thinking skills in the evaluation of alternative knowledge claims. Students will learn to identify western cultural biases, to integrate diverse sources of information into holistic perspectives and to apply anthropological knowledge and perspectives to solve problems of broad human relevance in contemporary contexts.

Before Graduating Students Must

- Achieve satisfactory evaluation of a term paper written for an upper-division course or senior honors thesis.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe, explain and apply factual, conceptual and procedural knowledge in the four subfields of anthropology (cultural anthropology, archaeology, biological anthropology, linguistics).

Critical Thinking

2. Apply scientific and humanistic approaches to investigate human variation in its biological, social, and cultural dimensions, and identify and evaluate disparate knowledge claims culturally and historically.

Communication

3. Articulate anthropological knowledge professionally in written and verbal form.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
ANT 2000	I, R, A		
ANT 2140	I, R, A	I	
ANT 2410	I, R, A	I	I
ANT 3126	R	R	R
ANT 3141	I	R	R
ANT 3153	R	R	R
ANT 3162	R	R	R
ANT 3164	R	R	R
ANT 3181	R	R	R
ANT 3241	R	R	R
ANT 3302	R	R	R
ANT 3390	R	R	R
ANT 3451	R	R	R
ANT 3514C	I, R, A	I	
ANT 3515	R	R	R
ANT 3520	R	R	R
ANT 3620	I, R, A	I	
ANT 4110	R	R	R
ANT 4114	R	R	R
ANT 4266	R	R	R
ANT 4274	R	R	R
ANT 4336	R	R	R

ANT 4340	R	R	R
ANT 4352	R	R	R
ANT 4354	R	R	R
ANT 4403	R	R	R
ANT 4468	R	R	R
ANT 4525	R	R	R
ANT 4550	R	R	R
ANT 4552	R	R	R
ANT 4554	R	R	R
ANT 4586	R	R	R
ANT 4740	R	R	R
ANT 4823	R	R	R
ANT 4824	R	R	R
ANT 4956	R	R	R
ANT Capstone	I, R, A	A	A

Assessment Types

- Exams

Anthropology | BA

Anthropology is the study of people in their cultural context and the examination of all aspects of patterned social behavior. The discipline is worldwide in scope and encompasses all aspects of human, biological, and social life from earliest times to the present. It is a broad, holistic field that seeks to understand human adaptation to natural and social environments.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 534) | Bachelor of Science (p. 538)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Anthropology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Anthropology includes four subfields: cultural anthropology, archaeology, biological anthropology, and linguistics. Undergraduates may concentrate their studies in one of these four subfields or pursue a focus in an interdisciplinary track with another major or minor. The anthropology major has two different programs: the Bachelor of Arts and the Bachelor of Science. Coursework for the major will depend upon the program, both of which are flexible. Both degrees are earned in anthropology rather than in any one subfield.

Students who are uncertain of a program should contact the Department of Anthropology's undergraduate coordinator for information and curriculum planning.

B.A. in Anthropology

Provides a broad-based liberal arts education and prepares students to work in an increasingly complex world. B.A. majors learn about different groups of people, their prehistory, and their biological and cultural diversity through disciplines that combine social science, natural science, and the humanities. Many undergraduate anthropology majors go on to graduate school in the social sciences, while others use anthropology to prepare themselves for professional careers in other disciplines. In a world of increasing globalization and need for effective international relations and understanding, anthropology is a highly relevant liberal arts and sciences major for students interested in pursuing careers in business, education, government, health, and law.

B.S. in Anthropology

Provides a degree option that blends their interest in basic science with the holistic lens of anthropology. B.S. majors engage in anthropology through coursework, lab and field-based research, and outreach. A grounding in scientific-based research, community initiatives, and multicultural skillsets enables our students to address pressing needs in both local and global contexts. For example, students often participate in independent and collaborative initiatives on and off campus and receive pre-graduate training in life sciences, health-related disciplines, natural history, and/or archaeological science fields. A B.S. in anthropology will encourage students to develop STEM-based skill sets and enhance scientific inquiry to

address salient anthropological issues. This degree inevitably draws upon multidisciplinary fields including anatomy, biology, chemistry, ecology, engineering, genetics, geology, physics, mathematics, statistics, zoology, and botany.

Coursework for the Major

Both the B.A. and the B.S. require a minimum of 34 semester credits in anthropology and all coursework must be completed with minimum grades of C. A minimum of 18 credits of anthropology coursework must be completed at UF.

For the BS degree, all required anthropology, and required related coursework must be completed with a minimum GPA of 2.5.

Overseas Studies

Students concentrating in any subfield, particularly cultural anthropology and/or archaeology, are also encouraged to complete either an ethnographic study abroad program or an archaeological field school before their senior year.

Relevant Minors and/or Certificates

The department encourages students pursuing the B.A. to choose a minor or an interdisciplinary certificate option in African studies, Asian studies, environmental studies, Jewish studies, Latin American studies, linguistics or women's studies. Relevant courses in anthropology may be used to fulfill some requirements.

Related Anthropology Programs

- Bachelor of Arts in Anthropology, UF Online (p. 546)
- Anthropology minor (p. 544)
- Anthropology minor, UF Online (p. 545)

Bachelor of Arts

The B.A. in anthropology provides students with a broad-based liberal arts education and prepares students to work in an increasingly complex world. B.A. majors learn about different groups of people, their prehistory, and their biological and cultural diversity through disciplines that combine social science, natural science, and the humanities. Many undergraduate anthropology majors go on to graduate school in the social sciences, while others use anthropology to prepare themselves for professional careers in other disciplines. In a world of increasing globalization and need for effective international relations and understanding, anthropology is a highly relevant liberal arts and sciences major for students interested in pursuing careers in business, education, government, health, and law.

Required Coursework for the B.A.

Code	Title	Credits
Anthropology Core Courses		
ANT 2410	Cultural Anthropology	3
ANT 2140	Introduction to World Archaeology	3
ANT 3514C	Introduction to Biological Anthropology	4
ANT 3620	Language and Culture	3
ANT 4931	Capstone in Anthropology	3
Anthropology B.A. Electives [1]		
3000 level and above		9
4000 level		6
Any level		3
Related Coursework for the B.A.		
STA 2023	Introduction to Statistics 1	3
Total Credits		37

[1] There are no prerequisites for 2000-level courses. Students in the honors program may take honors sections of any offered anthropology class. Any student at the sophomore level and above with the appropriate prerequisites or permission of the instructor may enroll in cross-listed graduate-level courses. Students are encouraged to take courses that address theory and method in the discipline, in addition to survey courses and area studies.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450201&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 anthropology course
- 2.0 UF GPA required

Semester 3

- Complete 1 additional anthropology course or STA 2023
- 2.0 UF GPA required

Semester 4

- Complete 1 additional anthropology course
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ANT 2410	Cultural Anthropology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Foreign language		3-5
Elective		2-3
	Credits	14-17
Semester Two		
ANT 2140	Introduction to World Archaeology (**Critical Tracking**)	3
ANT 2000	General Anthropology (recommended; State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Mathematics (p. 23)		3
Foreign language		3-5
	Credits	15-17
Semester Three		
ANT 3514C	Introduction to Biological Anthropology (**Critical Tracking**; Gen Ed Biological Sciences)	4
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Biological or Physical Sciences (area not taken in semester 1)		3
Elective (or foreign language if 4-3-3 option)		3
	Credits	16

Semester Four		
ANT 3620	Language and Culture (Gen Ed Social and Behavioral Sciences and International)	3
Gen Ed Humanities		3
Gen Ed Physical Sciences		3
Electives		6
	Credits	15
Semester Five		
Anthropology BA electives (3000 level or above)		6
Select one composition course:		3
ENC 3254	Professional Writing in the Discipline (Gen Ed Composition; Writing Requirement)	
ANT 3860	Writing in Anthropology (Gen Ed Composition; Writing Requirement)	
Electives		6
	Credits	15
Semester Six		
Anthropology BA electives (one at 3000 level or above; one at 4000 level)		6
Electives (3000 level or above; not in major)		6
Elective		3
	Credits	15
Semester Seven		
Anthropology BA elective (4000 level)		3
Anthropology BA elective (1000-4000 level) [1]		3
Electives (3000 level or above; not in major)		6
Elective		3
	Credits	15
Semester Eight		
ANT 4931	Capstone in Anthropology	3
Electives		6
Electives (3000 level or above; not in major)		6
	Credits	15
	Total Credits	120

[1] Or elective if ANT 2000 taken as State Core Gen Ed Social and Behavioral Sciences.

Academic Learning Compact

Students will develop critical thinking, problem solving and communication skills in the social sciences and in studies of natural history pertaining to human and non-human primates. Through study of human biological and cultural history and diversity, students will learn holistic, comparative and relative perspectives of anthropology, both scientific and humanistic. Emphasis is on critical thinking skills in the evaluation of alternative knowledge claims. Students will learn to identify western cultural biases, to integrate diverse sources of information into holistic perspectives and to apply anthropological knowledge and perspectives to solve problems of broad human relevance in contemporary contexts.

Before Graduating Students Must

- Achieve satisfactory evaluation of a term paper written for an upper-division course or senior honors thesis.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe, explain and apply factual, conceptual and procedural knowledge in the four subfields of anthropology (cultural anthropology, archaeology, biological anthropology, linguistics).

Critical Thinking

2. Apply scientific and humanistic approaches to investigate human variation in its biological, social, and cultural dimensions, and identify and evaluate disparate knowledge claims culturally and historically.

Communication

3. Articulate anthropological knowledge professionally in written and verbal form.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
ANT 2000	I, R, A		
ANT 2140	I, R, A	I	
ANT 2410	I, R, A	I	I
ANT 3126	R	R	R
ANT 3141	I	R	R
ANT 3153	R	R	R
ANT 3162	R	R	R
ANT 3164	R	R	R
ANT 3181	R	R	R
ANT 3241	R	R	R
ANT 3302	R	R	R
ANT 3390	R	R	R
ANT 3451	R	R	R
ANT 3514C	I, R, A	I	
ANT 3515	R	R	R
ANT 3520	R	R	R
ANT 3620	I, R, A	I	
ANT 4110	R	R	R
ANT 4114	R	R	R
ANT 4266	R	R	R
ANT 4274	R	R	R
ANT 4336	R	R	R
ANT 4340	R	R	R
ANT 4352	R	R	R
ANT 4354	R	R	R
ANT 4403	R	R	R
ANT 4468	R	R	R
ANT 4525	R	R	R
ANT 4550	R	R	R
ANT 4552	R	R	R
ANT 4554	R	R	R
ANT 4586	R	R	R
ANT 4740	R	R	R
ANT 4823	R	R	R
ANT 4824	R	R	R
ANT 4956	R	R	R
ANT Capstone	I, R, A	A	A

Assessment Types

- Exams

Anthropology | BS

Anthropology is the study of people in their cultural context and the examination of all aspects of patterned social behavior. The discipline is worldwide in scope and encompasses all aspects of human, biological, and social life from earliest times to the present. It is a broad, holistic field that seeks to understand human adaptation to natural and social environments.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 534) | Bachelor of Science (p. 538)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Anthropology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Anthropology includes four subfields: cultural anthropology, archaeology, biological anthropology, and linguistics. Undergraduates may concentrate their studies in one of these four subfields or pursue a focus in an interdisciplinary track with another major or minor. The anthropology major has two different programs: the Bachelor of Arts and the Bachelor of Science. Coursework for the major will depend upon the program, both of which are flexible. Both degrees are earned in anthropology rather than in any one subfield.

Students who are uncertain of a program should contact the Department of Anthropology's undergraduate coordinator for information and curriculum planning.

B.A. in Anthropology

Provides a broad-based liberal arts education and prepares students to work in an increasingly complex world. B.A. majors learn about different groups of people, their prehistory, and their biological and cultural diversity through disciplines that combine social science, natural science, and the humanities. Many undergraduate anthropology majors go on to graduate school in the social sciences, while others use anthropology to prepare themselves for professional careers in other disciplines. In a world of increasing globalization and need for effective international relations and understanding, anthropology is a highly relevant liberal arts and sciences major for students interested in pursuing careers in business, education, government, health, and law.

B.S. in Anthropology

Provides a degree option that blends their interest in basic science with the holistic lens of anthropology. B.S. majors engage in anthropology through coursework, lab and field-based research, and outreach. A grounding in scientific-based research, community initiatives, and multicultural skillsets enables our students to address pressing needs in both local and global contexts. For example, students often participate in independent and collaborative initiatives on and off campus and receive pre-graduate training in life sciences, health-related disciplines, natural history, and/or archaeological science fields. A B.S. in anthropology will encourage students to develop STEM-based skill sets and enhance scientific inquiry to address salient anthropological issues. This degree inevitably draws upon multidisciplinary fields including anatomy, biology, chemistry, ecology, engineering, genetics, geology, physics, mathematics, statistics, zoology, and botany.

Coursework for the Major

Both the B.A. and the B.S. require a minimum of 34 semester credits in anthropology and all coursework must be completed with minimum grades of C. A minimum of 18 credits of anthropology coursework must be completed at UF.

For the BS degree, all required anthropology, and required related coursework must be completed with a minimum GPA of 2.5.

Overseas Studies

Students concentrating in any subfield, particularly cultural anthropology and/or archaeology, are also encouraged to complete either an ethnographic study abroad program or an archaeological field school before their senior year.

Relevant Minors and/or Certificates

The department encourages students pursuing the B.A. to choose a minor or an interdisciplinary certificate option in African studies, Asian studies, environmental studies, Jewish studies, Latin American studies, linguistics or women's studies. Relevant courses in anthropology may be used to fulfill some requirements.

Related Anthropology Programs

- Bachelor of Arts in Anthropology, UF Online (p. 546)
- Anthropology minor (p. 544)
- Anthropology minor, UF Online (p. 545)

Bachelor of Science

The B.S. in anthropology provides students with a degree option that blends their interest in basic science with the holistic lens of anthropology. B.S. majors engage in anthropology through coursework, lab and field-based research, and outreach. A grounding in scientific-based research, community initiatives, and multicultural skillsets enable our students to address pressing needs in both local and global contexts. For example, students often

participate in independent and collaborative initiatives on and off campus and receive pre-graduate training in life sciences, health-related disciplines, natural history, and/or archaeological science fields. A B.S. in anthropology will encourage students to develop STEM-based skill sets and enhance scientific inquiry to address salient anthropological issues. This degree inevitably draws upon multidisciplinary fields including anatomy, biology, chemistry, ecology, engineering, genetics, geology, physics, mathematics, statistics, zoology, and botany.

Required Coursework for the B.S.

Complete with a minimum 2.5 GPA.

Code	Title	Credits
Anthropology Core Courses		
ANT 2140	Introduction to World Archaeology	3
ANT 2410	Cultural Anthropology	3
ANT 3514C	Introduction to Biological Anthropology	4
ANT 3620	Language and Culture	3
ANT 4931	Capstone in Anthropology	3
Anthropology B.S. Electives		
Select 18 credits:		18
ANT 3186	Introduction to Zooarchaeology	
ANT 3451	Race and Racism	
ANT 3478	Global Health Culture	
ANT 3515	Human Evolutionary Anatomy	
ANT 3555	The Primates	
ANT 3930	Junior Topics Class in Anthropology (Biological or Archaeological Sciences) [1]	
ANT 4113	Experimental Archaeology	
ANT 4114	Principles of Archaeology	
ANT 4147C	Environmental Archaeology	
ANT 4462	Culture and Medicine	
ANT 4468	Health and Disease in Human Evolution	
ANT 4525	Human Osteology and Osteometry	
ANT 4530	Seminar in Molecular Anthropology	
ANT 4531	Molecular Genetics of Disease	
ANT 4552	Primate Behavior	
ANT 4554C	Primate Evolution	
ANT 4586	Human Evolution	
ANT 4740	Introduction to Forensic Science	
ANT 4824	Field Sessions in Archaeology (Max. 6 credits)	
ANT 4905	Individual Work [1]	
ANT 4907	Research Projects in Anthropology [1]	
ANT 4911	Undergraduate Research in Anthropology [1]	
ANT 4914	Department Honors in Anthropology [1]	
ANT 4930	Special Topics in Anthropology (Biological or Archaeological Sciences) [1]	
Related Coursework for the B.S. [2]		
Related Foundation Coursework		
STA 2023	Introduction to Statistics 1	3
Select three of four sequences:		19-24
Biology		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	
Chemistry		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	
Physics		
Select one option:		
Option A		
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1	
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2	

Option B		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Mathematics		
MAC 2311	Analytic Geometry and Calculus 1	
or STA 3024	Introduction to Statistics 2	
Related Science Core Coursework		
Select 6-8 credits:		6-8
PCB 4043C	General Ecology	
PCB 4674	Evolution	
AGR 3303	Genetics	
or PCB 3063	Genetics	
BSC 4936	Critical Analysis of Biological Research	
GEO 2200	Physical Geography	
& 2200L	and Physical Geography Laboratory	
GLY 2010C	Physical Geology	
or GIS 3043	Foundations of Geographic Information Systems	
GLY 2100C	Historical Geology	
or GLY 3105C	Evolution of Earth and Life	
SWS 3022	Introduction to Soils in the Environment	
& 3022L	and Introduction to Soils in the Environment Laboratory	
Total Credits		62-69

[1] Students should consult with the Undergraduate Coordinator.

[2] Complete with a minimum 2.5 GPA.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450201&track=01) may be used for transfer students.

Semester 1

- 2.5 UF GPA required

Semester 2

- Complete 1 anthropology course and 1 related foundation course
- 2.5 UF GPA required

Semester 3

- Complete 1 additional anthropology course or STA 2023, and 1 additional related foundation course
- 2.5 UF GPA required

Semester 4

- Complete 1 additional anthropology course and 1 additional related foundation course
- 2.5 GPA required for all critical-tracking courses
- 2.5 UF GPA required

Semester 5

- 2.5 GPA required for all critical-tracking courses
- 2.5 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). PHY 2049, PHY 2049L, PHY 2054, PHY 2054L, STA 3024, and 3000 level or above related science core coursework outside of the Anthropology department may count towards the 3000 level or above electives outside of the major if taken.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ANT 2410	Cultural Anthropology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences) [1]	
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Mathematics (p. 23) [2]		3-4
	Credits	13-14
Semester Two		
ANT 3514C	Introduction to Biological Anthropology (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences) [1]	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
	Credits	14
Semester Three		
ANT 2140	Introduction to World Archaeology (**Critical Tracking**)	3
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences) [1]	
MAC 2311	Analytic Geometry and Calculus 1 (if not taken semester one) [1]	3-4
or STA 3024	or Introduction to Statistics 2	
Foreign language		3-5
	Credits	13-16
Semester Four		
ANT 3620	Language and Culture (Gen Ed Social and Behavioral Sciences and International)	3
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2 [1]	
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		3-5
	Credits	13-15
Semester Five		
Anthropology BS electives		6
Composition course:		3
ENC 3254	Professional Writing in the Discipline (Gen Ed Composition; Writing Requirement)	
ANT 3860	Writing in Anthropology (Gen Ed Composition; Writing Requirement)	
Electives (if needed, or foreign language, if 4-3-3 option)		8
	Credits	17
Semester Six		
Anthropology BS electives		6
State Core Gen Ed Humanities (p. 23)		3
Elective (3000 level or above, not in major)		3
Electives		5
	Credits	17
Semester Seven		
Anthropology BS electives		6
Related science core course		3-4
Gen Ed Humanities		3

Electives (3000 level or above, not in major)		5
	Credits	17-18
Semester Eight		
ANT 4931	Capstone in Anthropology	3
Related science core course		3-4
Electives (3000 level or above, not in major, if needed)		10
	Credits	16-17
	Total Credits	120

1 One of three required foundation coursework sequences (BSC 2010, BSC 2010L and BSC 2011, BSC 2011L; CHM 2045, CHM 2045L and CHM 2046, CHM 2046L; and MAC 2311 or STA 3024) can be substituted with either Physics 1 and 2 and Laboratories (PHY 2053, PHY 2053L and PHY 2054 and PHY 2054L) or Physics with Calculus 1 and 2 and Laboratories (PHY 2048, PHY 2048L and PHY 2049, PHY 2049L)

2 MAC 1147 or higher recommended for Chemistry sequence.

Academic Learning Compact

Students will develop critical thinking, problem solving and communication skills in the social sciences and in studies of natural history pertaining to human and non-human primates. Through study of human biological and cultural history and diversity, students will learn holistic, comparative and relative perspectives of anthropology, both scientific and humanistic. Emphasis is on critical thinking skills in the evaluation of alternative knowledge claims. Students will learn to identify western cultural biases, to integrate diverse sources of information into holistic perspectives and to apply anthropological knowledge and perspectives to solve problems of broad human relevance in contemporary contexts.

Before Graduating Students Must

- Achieve satisfactory evaluation of a term paper written for an upper-division course or senior honors thesis.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe, explain and apply factual, conceptual and procedural knowledge in the four subfields of anthropology (cultural anthropology, archaeology, biological anthropology, linguistics).

Critical Thinking

2. Apply scientific and humanistic approaches to investigate human variation in its biological, social, and cultural dimensions, and identify and evaluate disparate knowledge claims culturally and historically.

Communication

3. Articulate anthropological knowledge professionally in written and verbal form.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
ANT 2000	I, R, A		
ANT 2140	I, R, A	I	
ANT 2410	I, R, A	I	I
ANT 3126	R	R	R
ANT 3141	I	R	R
ANT 3153	R	R	R
ANT 3162	R	R	R
ANT 3164	R	R	R
ANT 3181	R	R	R
ANT 3241	R	R	R
ANT 3302	R	R	R
ANT 3390	R	R	R
ANT 3451	R	R	R
ANT 3514C	I, R, A	I	

ANT 3515	R	R	R
ANT 3520	R	R	R
ANT 3620	I, R, A	I	
ANT 4110	R	R	R
ANT 4114	R	R	R
ANT 4266	R	R	R
ANT 4274	R	R	R
ANT 4336	R	R	R
ANT 4340	R	R	R
ANT 4352	R	R	R
ANT 4354	R	R	R
ANT 4403	R	R	R
ANT 4468	R	R	R
ANT 4525	R	R	R
ANT 4550	R	R	R
ANT 4552	R	R	R
ANT 4554	R	R	R
ANT 4586	R	R	R
ANT 4740	R	R	R
ANT 4823	R	R	R
ANT 4824	R	R	R
ANT 4956	R	R	R
ANT Capstone	I, R, A	A	A

Assessment Types

- Exams

Anthropology Minor

The College of Liberal Arts and Sciences is the largest college on campus, with more than 10,000 undergraduate students pursuing a variety of disciplines through its 33 majors and 48 minors. Undergraduate students acquire an intellectual foundation based on a well-rounded and comprehensive education designed for an increasingly technological and rapidly changing society.

Contact

Office of the Dean
2014 Turlington Hall
P.O Box 117300
Gainesville FL 32611-7300

352.392.0780

Map (http://campusmap.ufl.edu/?loc=0267) More Info (http://www.clas.ufl.edu)

Academic Advising Center (AAC)
Farrior Hall
205 Fletcher Drive

P.O. Box 112015
University of Florida
Gainesville, FL 32611-2015

352.392.1521

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15-16 | Completed with minimum grades of C and no optional S-U
- **Related Anthropology Programs**

A minimum of nine credits must be taken at UF. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
Select two:		6-7
ANT 2140	Introduction to World Archaeology	
ANT 2410	Cultural Anthropology	
ANT 3514C	Introduction to Biological Anthropology	
ANT 3620	Language and Culture	
ANT courses (3000/4000 level; excluding individual work)		9
Total Credits		15-16

Related Anthropology Programs

- Bachelor of Arts in Anthropology (p. 532)
- Bachelor of Arts in Anthropology, UF Online (p. 546)
- Anthropology minor, UF Online (p. 545)

Anthropology Minor UF Online

The College of Liberal Arts and Sciences is the largest college on campus, with more than 10,000 undergraduate students pursuing a variety of disciplines through its 33 majors and 48 minors. Undergraduate students acquire an intellectual foundation based on a well-rounded and comprehensive education designed for an increasingly technological and rapidly changing society.

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Academic Advising Center (AAC)
Farrior Hall
205 Fletcher Drive

P.O. Box 112015
University of Florida
Gainesville, FL 32611-2015

352.392.1521

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15-16 | Completed with minimum grades of C and no optional S-U
- **Contact:** 1.855.99GATOR
- **Related Anthropology Programs**

A minimum of nine credits must be taken at UF. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
Select two:		6-7
ANT 2140	Introduction to World Archaeology	
ANT 2410	Cultural Anthropology	
ANT 3514C	Introduction to Biological Anthropology	
ANT 3620	Language and Culture	
ANT courses (3000/4000 level) [1]		9
Total Credits		15-16

[1] Excluding individual work.

Related Anthropology Programs

- Bachelor of Arts in Anthropology (p. 532)
- Bachelor of Arts in Anthropology, UF Online (p. 546)
- Anthropology minor (p. 544)

Anthropology UF Online

Anthropology is the study of people in their cultural context and the examination of all aspects of patterned social behavior. The discipline is worldwide in scope and encompasses all aspects of human, biological, and social life from earliest times to the present. It is a broad, holistic field that seeks to understand human adaptation to natural and social environments.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Anthropology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Anthropology includes four subfields: cultural anthropology, archaeology, biological anthropology, and linguistics. Undergraduates may concentrate their studies in one of these four subfields or pursue a focus in an interdisciplinary track with another major or minor. A Bachelor of Arts is earned in anthropology rather than in any one subfield.

A BA in anthropology provides students with a broad-based liberal arts education and prepares students to work in an increasingly complex world. Anthropology BA students learn about different groups of people, their prehistory, and their biological and cultural diversity through disciplines that combine social science, natural science, and the humanities. Many undergraduate anthropology majors go on to graduate school in the social sciences, while others use anthropology to prepare themselves for professional careers in other disciplines. In a world of increasing globalization and need for effective international relations and understanding, anthropology is a highly relevant liberal arts and sciences major for students interested in pursuing careers in business, education, government, health, and law.

Coursework for the Major

The major requires a minimum of 34 semester credits in anthropology and 3 credits of statistics. All coursework must be completed with minimum grades of C. A minimum of 18 credits of anthropology coursework must be completed at UF.

Required Coursework

Code	Title	Credits
Anthropology Core Courses		
ANT 2410	Cultural Anthropology	3
ANT 2140	Introduction to World Archaeology	3
ANT 3514C	Introduction to Biological Anthropology	4
ANT 3620	Language and Culture	3
ANT 4931	Capstone in Anthropology	3
Anthropology B.A. Electives		
3000 level and above		9

4000 level		6
Any level		3
Related Coursework		
STA 2023	Introduction to Statistics 1	3
Total Credits		37

There are no prerequisites for 2000-level courses. Students in the honors program may take honors sections of any offered anthropology class. Any student at the sophomore level and above with the appropriate prerequisites or permission of the instructor may enroll in cross-listed graduate-level courses. Students are encouraged to take courses that address theory and method in the discipline, in addition to survey courses and area studies.

Overseas Studies

Students concentrating in any subfield, particularly cultural anthropology and/or archaeology, are also encouraged to complete either an ethnographic study abroad program or an archaeological field school before their senior year.

Related Anthropology Programs

- Bachelor of Arts in Anthropology (p. 532)
- Anthropology minor (p. 544)
- Anthropology minor, UF Online (p. 545)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450201&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 anthropology course
- 2.0 UF GPA required

Semester 3

- Complete 1 additional anthropology course or STA 2023
- 2.0 UF GPA required

Semester 4

- Complete 1 additional anthropology course
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ANT 2410	Cultural Anthropology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with Diversity)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (Writing Requirement)		3
Foreign language		3-5
Elective		2-3
	Credits	14-17
Semester Two		
ANT 2140	Introduction to World Archaeology (**Critical Tracking**)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Foreign language		3-5
State Core Gen Ed Mathematics (p. 23)		3
ANT 2000	General Anthropology (recommended; State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
	Credits	15-17
Semester Three		
ANT 3514C	Introduction to Biological Anthropology (**Critical Tracking**; Gen Ed Biological Sciences)	4
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Gen Ed Biological or Physical Sciences (area not taken in semester one)		3
Elective (or foreign language if 4-3-3 option)		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	16
Semester Four		
ANT 3620	Language and Culture (Gen Ed Social and Behavioral Sciences with International)	3
Electives		6
Gen Ed Humanities		3
Gen Ed Physical Sciences		3
	Credits	15
Semester Five		
Anthropology electives (3000 level or above)		6
Select one composition course:		3
ENC 3254	Professional Writing in the Discipline (Gen Ed Composition; Writing Requirement)	
ANT 3860	Writing in Anthropology (Gen Ed Composition; Writing Requirement)	
Electives		6
	Credits	15
Semester Six		
Anthropology electives (one at 3000 level or above; one at 4000 level)		6
Elective		3
Electives (3000 level or above; not in major)		6
	Credits	15
Semester Seven		
Anthropology elective (4000 level)		3
Anthropology elective (1000-4000 level) [1]		3
Elective		3
Electives (3000 level or above; not in major)		6
	Credits	15
Semester Eight		
ANT 4931	Capstone in Anthropology	3
Electives		6
Electives (3000 level or above; not in major)		6
	Credits	15
	Total Credits	120

[1] Or elective if ANT 2000 taken as State Core Gen Ed Social and Behavioral Sciences

Academic Learning Compact

Students will develop critical thinking, problem solving and communication skills in the social sciences and in studies of natural history pertaining to human and non-human primates. Through study of human biological and cultural history and diversity, students will learn holistic, comparative and relative perspectives of anthropology, both scientific and humanistic. Emphasis is on critical thinking skills in the evaluation of alternative knowledge claims. Students will learn to identify western cultural biases, to integrate diverse sources of information into holistic perspectives and to apply anthropological knowledge and perspectives to solve problems of broad human relevance in contemporary contexts.

Before Graduating Students Must

- Achieve satisfactory evaluation of a term paper written for an upper-division course or senior honors thesis.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe, explain and apply factual, conceptual and procedural knowledge in the four subfields of anthropology (cultural anthropology, archaeology, biological anthropology, linguistics).

Critical Thinking

2. Apply scientific and humanistic approaches to investigate human variation in its biological, social, and cultural dimensions, and identify and evaluate disparate knowledge claims culturally and historically.

Communication

3. Articulate anthropological knowledge professionally in written and verbal form.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
ANT 2000	I, R, A		
ANT 2140	I, R, A	I	
ANT 2410	I, R, A	I	I
ANT 3126	R	R	R
ANT 3141	I	R	R
ANT 3153	R	R	R
ANT 3162	R	R	R
ANT 3164	R	R	R
ANT 3181	R	R	R
ANT 3241	R	R	R
ANT 3302	R	R	R
ANT 3390	R	R	R
ANT 3451	R	R	R
ANT 3514C	I, R, A	I	
ANT 3515	R	R	R
ANT 3520	R	R	R
ANT 3620	I, R, A	I	
ANT 4110	R	R	R
ANT 4114	R	R	R
ANT 4266	R	R	R
ANT 4274	R	R	R
ANT 4336	R	R	R
ANT 4340	R	R	R
ANT 4352	R	R	R
ANT 4354	R	R	R
ANT 4403	R	R	R
ANT 4468	R	R	R

ANT 4525	R	R	R
ANT 4550	R	R	R
ANT 4552	R	R	R
ANT 4554	R	R	R
ANT 4586	R	R	R
ANT 4740	R	R	R
ANT 4823	R	R	R
ANT 4824	R	R	R
ANT 4956	R	R	R
ANT Capstone	I, R, A	A	A

Assessment Types

- Exams

Arabic

Foreign Languages and Literatures

The Arabic language is the key to understanding the culture and history of North Africa, the Middle East, and the Arabian Peninsula. Arabic is also the liturgical language of more than a billion Muslims, and it is one of the six official languages of the United Nations. The Arabic specialization of the Foreign Languages and Literatures major enables students to develop an appreciation for the complexity of the many facets of the Arab world: its society, culture, history, arts, religions, and literary heritage.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Arabic Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in Foreign Languages and Literatures (FLL) provides students with a comprehensive knowledge of a specific language (or languages) and advanced familiarity with the cultural practices and traditions associated with the language(s) of specialization. The major in FLL enhances critical thinking and communication skills and provides students with a cross-cultural understanding of our contemporary world. The program allows students the flexibility to explore a single or dual language specialization as well as the opportunity to study culture through interdisciplinary fields of critical concentration, such as Comparative Cultural Studies, Film and Visual Culture, Intensive Area Studies, Literary Studies, and Medieval and Early Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security, communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

The Arabic specialization of the Foreign Languages and Literatures major provides students with a solid background in the linguistic, literary, and cultural aspects of the Arab World, including North Africa, the Arab Middle East and the Arabian Peninsula. The major gives students a foundation in the Arabic language, including speaking, reading, writing, and listening, as well as the opportunity to advance their knowledge of Arab cultures. It prepares students for graduate school and is ideal for students considering careers in government and diplomacy, academia, business, and international development. Many students choose to double major in the Arabic specialization of the Foreign Languages and Literatures major and another subject in social sciences, humanities, business, or journalism.

Coursework for the Major

The Arabic specialization of the Foreign Languages and Literatures major consists of preparatory language study at the lower division (1000 and 2000 level), and 33 hours of advanced language, theory, and culture study in the upper division (3000 level and above).

All coursework for the major must be completed with minimum grades of C.

Code	Title	Credits
Required Foundation Coursework		
ARA 1130	Beginning Arabic 1	5

ARA 1131	Beginning Arabic 2	5
ARA 2220	Intermediate Arabic 1	4
ARA 2221	Intermediate Arabic 2	4
Required Core Coursework		
Advanced Language and Culture		
ARA 3410	Advanced Arabic 1	3
ARA 3411	Advanced Arabic 2	3
ARA 4400	Fourth Year Arabic 1	3
ARA 4420	Arabic through the Texts	3
Advanced Elective Coursework		
Select 12 credits:		12
ABT 3130	Arabic Literary Heritage 1	
ABT 3500	Arabic Culture	
ABT 4131	The Qur'an as Literature	
ARA 3241	Spoken Arabic	
ARA 3510	The Arab Woman	
ARA 4401	Fourth Year Arabic 2	
ARA 4822	Arabic Sociolinguistics	
ARA 4850	Structure of Standard Arabic	
ARA 4905	Individual Study (3 credits max.)	
ARA 4930	Special Topics	
Critical Concentration		
Select nine credits from one area: [1]		9
Intensive Area Studies: Arabic Studies [2]		
Comparative Cultural Studies		
Film and Visual Culture		
Literary Studies		
Medieval and Early Modern Studies		
Total Credits		51

[1] Although courses may appear in more than one group they may be counted toward only one group.

[2] Recommended for those planning to pursue careers requiring advanced level skills in Arabic or graduate work in Arabic studies.

Overseas Study

Students of the Arabic specialization of the Foreign Languages and Literatures major are encouraged to study abroad for a summer or a semester. Students may choose the nine-week summer UF-sponsored program in the Arabic Language Institute in Fez (ALIF) in Morocco. The program offers students the opportunity to earn 11 credit hours (only 6 may be transferred as part of the Required Foundation Coursework). More information (https://www.abroad.ufic.ufl.edu/index.cfm?FuseAction=Programs.ViewProgram&Program_ID=06067371734F747005700D74710A1C00090D0514730107776E707275020500707174747076000472 00&Type

Students may also choose another UF-approved study-abroad program in Morocco or another Arab country (e.g., in Jordan, Qatar).

Placement

In all languages, students with either a native background in the language or prior study in that language, might be eligible to place out of the preparatory language courses and should meet with the undergraduate coordinator to arrange for placement assessment.

Research

Students with an upper-division GPA of 3.5 are encouraged to write a thesis for high or highest honors at graduation.

Related Arabic Programs

- Bachelor of Arts in Interdisciplinary Studies, Middle Eastern Languages and Cultures (p.)
- Arabic Language and Literature minor (p. 556)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160501&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- ARA 1130 or higher-level Arabic Language course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete ARA 1131 or higher-level Arabic Language course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete ARA 2220 or a higher-level Arabic Language course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). 3000 level or above critical concentration courses outside of Arabic may count toward the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ARA 1130	Beginning Arabic 1 (**Critical Tracking**)	5
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
ARA 1131	Beginning Arabic 2 (**Critical Tracking**)	5
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological or Physical Sciences (area NOT taken in semester 1)		3
State Core Gen Ed Mathematics (p. 23)		3
Science Laboratory (Gen Ed Biological or Physical Sciences)		1
	Credits	15
Semester Three		
ARA 2220	Intermediate Arabic 1 (**Critical Tracking**)	4
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
ARA 2221	Intermediate Arabic 2	4
Advanced elective (in the major)		3
Gen Ed Social and Behavioral Sciences and Diversity		3
Electives (3000 level or above; not in major)		6
	Credits	16

Semester Five		
ARA 3410	Advanced Arabic 1	3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Critical concentration course		3
Advanced elective (in the major)		3
	Credits	15
Semester Six		
ARA 3411	Advanced Arabic 2	3
Advanced elective (in the major)		3
Elective (3000 level or above, not in major)		3
Electives		5
	Credits	14
Semester Seven		
ARA 4400	Fourth Year Arabic 1 (Gen Ed Humanities and International)	3
Critical concentration course		3
Advanced elective (in the major)		3
Elective (3000 level or above, not in major)		3
Elective or senior thesis option		3
	Credits	15
Semester Eight		
ARA 4420	Arabic through the Texts	3
Critical concentration course		3
Electives (3000 level or above, not in major)		6
Elective		3
	Credits	15
	Total Credits	120

Critical Concentration Courses

9 Credits from One Concentration

Although courses may appear in more than one group they may be counted toward only one group

Code	Title	Credits
Intensive Area Studies: Arabic		
ABT 3130	Arabic Literary Heritage 1	3
ABT 3500	Arabic Culture	3
ABT 4131	The Qur'an as Literature	3
ARA 3241	Spoken Arabic	3
ARA 3510	The Arab Woman	3
ARA 4401	Fourth Year Arabic 2	3
ARA 4822	Arabic Sociolinguistics	3
ARA 4850	Structure of Standard Arabic	3
ARA 4905	Individual Study (maximum 3 credits)	1-5
ARA 4930	Special Topics	3
Comparative Cultural Studies		
ABT 3500	Arabic Culture	3
ABT 4131	The Qur'an as Literature	3
ARA 3510	The Arab Woman	3
CHI 3403	Chinese Calligraphy	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CZT 3564	Modern Czech Culture and Society	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3003	German Culture and Civilization 1	3
GET 3004	Modern German Culture and Civilization	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
HAI 3930	Haitian Culture and Society	3
HAT 3564	Haitian Culture and Society	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3

ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JMT 3500	Jamaican Creole, Reggae, and Rastafari	3
JPT 3500	Japanese Culture	3
JPT 4502	Japanese Folklore	3
RUT 3443	War and Peace	3
RUT 3500	Russian Cultural Heritage	3
RUT 3501	Contemporary Russian Culture and Society	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3504	Russia Today	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 4450	Russian Modernism	3
VTT 3500	Vietnamese Culture	3
YOT 3500	Yoruba Diaspora in the New World	3
Film and Visual Culture		
CHI 4930	Special Topics in Chinese Studies	3
CHT 3391	Chinese Film and Media	4
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	4
FRT 3520	French Cinema	4
FRT 3561	Women in French Literature and/or Cinema	3-4
FRT 4523	European Identities, European Cinemas	4
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
HBR 4930	Special Topics	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPN 4930	Special Topics in Japanese Studies	3
JPT 3391	Introduction to Japanese Film	4
JPT 3702	Japanese Visual Culture	3
PLT 3520	Polish Cinema	4
RUT 3524	Russia through Film	3
SSA 4930	Special Topics in African Studies	3
Literary Studies		
ABT 3130	Arabic Literary Heritage 1	3
ABT 4131	The Qur'an as Literature	3
CHI 4930	Special Topics in Chinese Studies	3
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3200	Medieval Literary Culture	3
GET 3501	History, Literature and Arts of Berlin	3
GET 3580	Representations of War in Literature and Visual Media	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
GET 4930	Variable Topics in German Studies	3
HAT 3503	Haitian Culture and Literature in Translation	3
HBR 4930	Special Topics	3
HBT 3223	Identity and Dissent in the Hebrew Short Story	3
HBT 3563	Women in Modern Hebrew Fiction	3

HBT 3564	Motherhood in Modern Hebrew Literature	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3140	Modern Women Writers	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
PLT 3930	Special Topics in Polish Studies	3
RUT 3101	Russian Masterpieces	3
RUT 3441	Tolstoy and Dostoevsky	3
RUT 3442	Themes from Russian Literature	3
RUT 3443	War and Peace	3
RUT 3452	Russian Literature of the Twentieth Century	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 3930	Variable Topics in Russian Studies	3
RUT 4440	Pushkin and Gogol	3
RUT 4450	Russian Modernism	3
SST 4502	African Oral Literature	3
SSW 3303	Swahili Oral Literature	3
SSW 4713	African Women Writers	3
VTN 4930	Special Topics in Vietnamese Studies	3
YOR 4502	Yoruba Oral Literature	3
Medieval and Early Modern Studies		
ARA 3510	The Arab Woman	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
GET 3200	Medieval Literary Culture	3
ITT 3431	Italy and Pilgrimages	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
MEM 3003	Introduction to the Medieval World	3
MEM 3300	Castles and Cloisters: An Introduction to Medieval Communities	3
MEM 3301	Palaces and Cities: An Introduction to Early Modern Communities	3
MEM 3730	Studies in the Holy Roman Empire	3
MEM 3805	Research Methods in Medieval and Early Modern Studies	1
MEM 3931	Variable Topics in Medieval and Early Modern Studies	3

Academic Learning Compact

The Foreign Languages and Literatures (FLL) major enables students to achieve communicative competence in their language(s) of specialization. Students will become knowledgeable in the culture and literature and/or linguistics associated with their language area(s) such that they will be able to critically analyze and evaluate authentic sources in the target language(s) and formulate independent, critical perspectives in the target language(s). Further, students will learn the intercultural skills and practical know-how necessary to negotiate traveling, studying, and living in the target culture(s).

Before Graduating Students Must

- Satisfy the Florida statutes for the College-Level Academic Skills Requirement.
- Complete requirements for the baccalaureate degree, as determined by faculty.

- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and define cultural concepts, literary production, and/or linguistic structure in language(s) of specialization.

Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I, R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

Arabic Language and Literature Minor

The Arabic language is the key to understanding the culture and history of North Africa, the Middle East, and the Arabian Peninsula. Arabic is also the liturgical language of more than a billion Muslims, and it is one of the six official languages of the United Nations.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C and no optional S-U
- **Related Arabic or Middle Eastern Programs**

An intensive summer program in Fez, Morocco, is available for students at all levels.

No more than three credits of 4905 (Individual Work) coursework may be applied to the minor. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
Select one:		6
ARA 3410	Advanced Arabic 1	
& ARA 3411	and Advanced Arabic 2	
ARA 4400	Fourth Year Arabic 1	
& ARA 4401	and Fourth Year Arabic 2	
ARA 4420	Arabic through the Texts [1]	3
ARA or ABT prefixed courses [2]		6
Total Credits		15

1 Prerequisite: 5 semesters of Arabic or the equivalent.

2 Excluding ARA language courses.

Related Arabic or Middle Eastern Programs

- Bachelor of Arts in Foreign Languages and Literatures, Arabic (p. 550)
- Bachelor of Arts in Interdisciplinary Studies, Middle Eastern Languages and Cultures (p.)

Asian Studies Minor

This minor provides multidisciplinary expertise and practical experience in Asia-related affairs through coursework and study abroad opportunities.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15-22, depending on option | Completed with minimum grades of C
- **Related Asian Studies Programs**

The minor provides two options of study. Language credits earned at other institutions may be accepted.

Students pursuing the major in Foreign Languages and Literatures, Chinese specialization; or Foreign Languages and Literatures, Japanese specialization; or Foreign Languages and Literatures, Dual Language specialization in which one of the languages is Chinese, Japanese, or Vietnamese, are not eligible to receive the minor in Asian studies.

Of the total credits, no more than three may be individual study (CHI 4905/JPN 4905). Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Option 1

Code	Title	Credits
Non-language Asia-related courses (3000/4000 level)		15
Total Credits		15

Option 2

Code	Title	Credits
Select one:		10
CHI 1130 & CHI 1131	Beginning Chinese 1 and Beginning Chinese 2	
JPN 1130 & JPN 1131	Beginning Japanese 1 and Beginning Japanese 2	
VTN 1130 & VTN 1131	Beginning Vietnamese 1 and Beginning Vietnamese 2	
Non-language Asia-related courses (3000/4000 level)		12
Total Credits		22

Related Asian Studies Programs

- Bachelor of Arts in International Studies, Asia (p. 810)

Asian-American Studies Minor

The Asian-American studies minor examines the diverse experience of Asian-Americans and Pacific Islanders in the U.S., including their literatures, cultures, religions, histories, racial and gender identities, political participations, and their relationships to their homelands and other Asian diasporas.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C and no optional S-U

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

The required courses are offered every other year. Refer to the Schedule of Courses.

Code	Title	Credits
Select 9 credits:		9
AML 3673	Asian-American Studies (Introduction to Asian-American Literature) [1]	
AML 3673	Asian-American Studies (Asian-American and African-American Interactions) [1]	
ENG 4130	Race and Ethnicity in Film (Asian-American Cinema) [1]	
ENG 4133	Film Studies (Martial Arts Cinema) [1]	
POS 4931	Special Topics (Asian-American Politics) [1]	
REL 3120	Religion and the American Immigrant Experience (Hindu Traditions in America)	
REL 4936	Special Topics in Religious Studies (American Buddhism) [1]	
WST 3930	Special Interdisciplinary Topics in Women's Studies (Women of Color in the US: Asian-American Women) [1]	
Approved electives		6
Total Credits		15

[1] Must be taken under this specific course title.

Approved Electives

Code	Title	Credits
AFA 2000	Introduction to African-American Studies	3
AML 3605	African-American Literature 1	3
AML 3607	African-American Literature 2	3
AML 4170	Studies in American Literary Forms (Indian Captivity Narratives) [1]	3
AML 4685	Race and Ethnicity (Race and Gender in U.S. Latina Literature) [1]	3
LIT 4930	Variable Topics in Literature and Language (Third World Women Poetry and Short Stories) [1]	3
POS 4624	Race, Law and the Constitution	3
POS 4931	Special Topics (Multicultural Politics) [1]	3
SYA 4931	Department Honors in Sociology (Race, Class, and Gender) [1]	3
SYD 3700	Minorities in American Society	3

[1] Must be taken under this specific course title.

Astronomy and Astrophysics

Curious about what's out there? Students who are comfortable with mathematics and physics and who want to understand the nature of the Solar System and other planetary systems, stars, galaxies and/or the universe are encouraged to pursue a B.A. in astronomy or a B.S. in astrophysics.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts in Astronomy (p. 560) | Bachelor of Science in Astrophysics (p. 565)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Astronomy Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The knowledge acquired and the analytical skills developed provide excellent broad-based training for careers in industry, education and government as well as preparation for graduate study in astronomy and astrophysics, science education, engineering, law, and medicine.

The Department of Astronomy offers two undergraduate degree options. The Bachelor of Science (B.S.) in astrophysics is designed for students who intend to pursue careers in a scientific or technical field by continuing to study astronomy, astrophysics or physics at the graduate level or to commence study in some related field such as planetary science.

The Bachelor of Arts (B.A.) in astronomy is broader and less specialized than the B.S., with the aim of developing and sharpening analytical and quantitative reasoning while at the same time cultivating broader knowledge that can be applied to a variety of careers, including business, law, the health professions, science writing, and teaching.

Coursework for the Major

All students are required to take 10 core courses in mathematics, physics and astronomy. The B.A. in astronomy requires a total of 41 credits; the B.S. in astrophysics requires a minimum of 62 credits. Students pursuing the B.A. have fewer additional required astronomy and physics courses, which offers greater flexibility for taking courses in other disciplines.

All required courses must be completed with minimum grades of C.

Required Courses for Both Degrees

Code	Title	Credits
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
PHY 2048	Physics with Calculus 1	4
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	4
& 2049L	and Laboratory for Physics with Calculus 2	
AST 3018	Astronomy and Astrophysics 1	3
AST 3019	Astronomy and Astrophysics 2	3
AST 3722C	Techniques of Observational Astronomy 1	3
Total Credits		29

Recommended Coursework for Graduate Study

Students should talk with the undergraduate coordinator and plan to take:

Code	Title	Credits
PHY 4604	Introductory Quantum Mechanics 1	3
Select additional courses:		
COP 2271	Computer Programming for Engineers	
MAA 4402	Functions of a Complex Variable	
MAS 3114	Computational Linear Algebra	
PHY 3513	Thermal Physics 1	
PHY 4424	Optics 1	
PHY 4523	Statistical Physics	
STA 3032	Engineering Statistics	

Students of exceptional ability who have some background in physics are encouraged to take the enriched physics with calculus sequence PHY 2060/PHY 2061 instead of PHY 2048/PHY 2049; PHY 3063 may then be taken in place of PHY 3101; and PHZ 3113 may be substituted for PHY 3221.

Relevant Minors and/or Certificates

UFTeach Program

More Info (https://education.ufl.edu/uf-teach)

There is a severe shortage of qualified secondary science teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see the undergraduate coordinator about the UFTeach program. UFTeach students can complete the UFTeach minor in science teaching along with their B.A. in astronomy and have the coursework and preparation for professional teacher certification in Florida when they graduate.

Research

Students pursuing the B.S. in astrophysics are encouraged to engage in research with astronomy faculty by signing up for at least three credits of AST 4911; 3 credits of AST 4911 may count toward the 4000 level requirement; an additional 3 credits of AST 4911 may be applied toward the 4000 level requirement with the approval of the undergraduate coordinator.

Related Astronomy Programs

- Astronomy minor (p. 569)

Academic Learning Compact

Astronomy and astrophysics provide knowledge of basic concepts, theories and observational findings concerning the structure and evolution of planetary systems, stars, stellar systems such as galaxies, and cosmology. Students will learn scientific methodology and its application in specific contexts, the use of observations in testing hypotheses and the limitations of astronomical observations as well as how to critically evaluate them.

The Bachelor of Arts in Astronomy enables students to become familiar with modern physics and to understand mathematics, including calculus. The Bachelor of Science in Astrophysics enables students to understand the basic concepts, theories and experimental findings in modern physics, electricity and magnetism, and mechanics as they apply to astronomy and astrophysics.

Before Graduating Students Must

- Demonstrate satisfactory (minimum grades of C) performance on a selection of coursework from each of the 4000-level astronomy courses as graded by a faculty committee independent of the instructor and not as part of the course grade.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. **Bachelor of Arts in Astronomy**
   Identify, describe and define the fundamentals of astronomy, including the basic concepts, theories and observational results for planetary systems, stars, stellar systems and cosmology.
   Bachelor of Science in Astrophysics
   Identify, describe and define the fundamentals of astrophysics, including mechanics, electromagnetism, modern physics and the basic concepts, theories and observational results for planetary systems, stars, stellar systems and cosmology.
2. Define and use the techniques of astronomical observation.

Critical Thinking

3. Critically evaluate results of astronomical research.

Communication

4. Effectively and clearly communicate ideas and results in speech and in writing in an accepted style of presentation.

Curriculum Map: B.A. and B.S.

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AST 3018	I		I	I
AST 3019	I		I	I
AST 3722C	I, R	I, A	R	R
AST 4211	R, A		R	R
AST 4402	R, A		R	R
AST 4723C	R, A	R, A	R	R
AST 4930 (Planetary System Astrophysics)	R, A		R	R
AST 4930 (Senior Seminar)			A	A

Assessment Types for Both Degrees

- Exams
- Portfolios
- Papers
- Oral presentations

Astronomy and Astrophysics | Astronomy

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- **Additional Information**
- **Related Astronomy Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The knowledge acquired and the analytical skills developed provide excellent broad-based training for careers in industry, education and government as well as preparation for graduate study in astronomy and astrophysics, science education, engineering, law, and medicine.

The Department of Astronomy offers two undergraduate degree options. The Bachelor of Science (B.S.) in astrophysics is designed for students who intend to pursue careers in a scientific or technical field by continuing to study astronomy, astrophysics or physics at the graduate level or to commence study in some related field such as planetary science.

The Bachelor of Arts (B.A.) in astronomy is broader and less specialized than the B.S., with the aim of developing and sharpening analytical and quantitative reasoning while at the same time cultivating broader knowledge that can be applied to a variety of careers, including business, law, the health professions, science writing, and teaching.

Coursework for the Major

All students are required to take 10 core courses in mathematics, physics and astronomy. The B.A. in astronomy requires a total of 41 credits; the B.S. in astrophysics requires a minimum of 62 credits. Students pursuing the B.A. have fewer additional required astronomy and physics courses, which offers greater flexibility for taking courses in other disciplines.

All required courses must be completed with minimum grades of C.

Required Courses for Both Degrees

Code	Title	Credits
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MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
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& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	4
& 2049L	and Laboratory for Physics with Calculus 2	
AST 3018	Astronomy and Astrophysics 1	3
AST 3019	Astronomy and Astrophysics 2	3
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Recommended Coursework for Graduate Study

Students should talk with the undergraduate coordinator and plan to take:

Code	Title	Credits
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Select additional courses:		
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MAA 4402	Functions of a Complex Variable	
MAS 3114	Computational Linear Algebra	
PHY 3513	Thermal Physics 1	
PHY 4424	Optics 1	
PHY 4523	Statistical Physics	
STA 3032	Engineering Statistics	

Students of exceptional ability who have some background in physics are encouraged to take the enriched physics with calculus sequence PHY 2060/PHY 2061 instead of PHY 2048/PHY 2049; PHY 3063 may then be taken in place of PHY 3101; and PHZ 3113 may be substituted for PHY 3221.

Relevant Minors and/or Certificates

UFTeach Program

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Research

Students pursuing the B.S. in astrophysics are encouraged to engage in research with astronomy faculty by signing up for at least three credits of AST 4911; 3 credits of AST 4911 may count toward the 4000 level requirement; an additional 3 credits of AST 4911 may be applied toward the 4000 level requirement with the approval of the undergraduate coordinator.

Related Astronomy Programs

- Astronomy minor (p. 569)

Bachelor of Arts in Astronomy

The B.A. in astronomy is broader and less specialized than the B.S., with the aim of developing and sharpening analytical and quantitative reasoning while at the same time cultivating broader knowledge that can be applied to a variety of careers, including business, law, the health professions, and teaching.

Additional Required Coursework for the B.A. in Astronomy

Code	Title	Credits
Two 3000/4000-level astronomy courses		6
Select two:		6
AST or PHY courses at the 3000/4000 level		
AST 2003	Introduction to the Solar System	
AST 2037	Life in the Universe	
GLY 2010C	Physical Geology	
GLY 2042	Planetary Geology	
GLY 3105C	Evolution of Earth and Life	
MCB 3703	Astrobiology	
PHY 2464	The Physical Basis of Music	
PHY 3101	Introduction to Modern Physics	
PHZ 4710	Introduction to Biological physics	
SWS 2007	The World of Water	
Total Credits		12

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree (p. 506)**.**

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=400201&track=01) may be used for transfer students.

All students must meet these criteria to remain on track for the major.

Note that critical tracking is the same for both degrees.

Semester 1

- Complete MAC 1147 or MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete MAC 2311
- 2.0 UF GPA required

Semester 3

- Complete MAC 2312, PHY 2048 and PHY 2048L with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete MAC 2313, PHY 2049 and PHY 2049L with 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

UF freshmen and sophomores should take AST 3018 by semester 4

Semester 5

- 2.5 critical-tracking GPA with completion of AST 3018
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Gen Ed Biological Sciences		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16
Semester Two		
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	1
Gen Ed Biological Sciences		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	14
Semester Three		
AST 3018	Astronomy and Astrophysics 1 (**Critical Tracking**)	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**)	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	1
Gen Ed Social and Behavioral Sciences		3
	Credits	14
Semester Four		
AST 3019	Astronomy and Astrophysics 2	3
AST 3722C	Techniques of Observational Astronomy 1	3
Gen Ed Humanities		3
Gen Ed Social and Behavioral Sciences		3
Elective		3
	Credits	15

Semester Five	
AST course (3000/4000 level)	3
Elective (3000/4000 level, not in major)	3
Foreign language	3-5
Electives	6
Credits	15-17
Semester Six	
AST course (3000/4000 level)	3
Foreign language	3-5
Electives (3000/4000 level, not in major)	6
Elective	3
Credits	15-17
Semester Seven	
AST or PHY course or approved major course	3
Gen Ed Composition; Writing Requirement	3
Elective (or complete foreign language if 4-3-3 option)	3
Electives	6
Credits	15
Semester Eight	
AST or PHY course or approved major course	3
Electives	13
Credits	16
Total Credits	120

Academic Learning Compact

Astronomy and astrophysics provide knowledge of basic concepts, theories and observational findings concerning the structure and evolution of planetary systems, stars, stellar systems such as galaxies, and cosmology. Students will learn scientific methodology and its application in specific contexts, the use of observations in testing hypotheses and the limitations of astronomical observations as well as how to critically evaluate them.

The Bachelor of Arts in Astronomy enables students to become familiar with modern physics and to understand mathematics, including calculus. The Bachelor of Science in Astrophysics enables students to understand the basic concepts, theories and experimental findings in modern physics, electricity and magnetism, and mechanics as they apply to astronomy and astrophysics.

Before Graduating Students Must

- Demonstrate satisfactory (minimum grades of C) performance on a selection of coursework from each of the 4000-level astronomy courses as graded by a faculty committee independent of the instructor and not as part of the course grade.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. **Bachelor of Arts in Astronomy**
   Identify, describe and define the fundamentals of astronomy, including the basic concepts, theories and observational results for planetary systems, stars, stellar systems and cosmology.
   Bachelor of Science in Astrophysics
   Identify, describe and define the fundamentals of astrophysics, including mechanics, electromagnetism, modern physics and the basic concepts, theories and observational results for planetary systems, stars, stellar systems and cosmology.
2. Define and use the techniques of astronomical observation.

Critical Thinking

3. Critically evaluate results of astronomical research.

Communication

4. Effectively and clearly communicate ideas and results in speech and in writing in an accepted style of presentation.

Curriculum Map: B.A. and B.S.

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AST 3018	I		I	I
AST 3019	I		I	I
AST 3722C	I, R	I, A	R	R
AST 4211	R, A		R	R
AST 4402	R, A		R	R
AST 4723C	R, A	R, A	R	R
AST 4930 (Planetary System Astrophysics)	R, A		R	R
AST 4930 (Senior Seminar)			A	A

Assessment Types for Both Degrees

- Exams
- Portfolios
- Papers
- Oral presentations

Astronomy and Astrophysics | Astrophysics

Curious about what's out there? Students who are comfortable with mathematics and physics and who want to understand the nature of the Solar System and other planetary systems, stars, galaxies and/or the universe are encouraged to pursue a B.A. in astronomy or a B.S. in astrophysics.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts in Astronomy (p. 560) | Bachelor of Science in Astrophysics (p. 565)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Astronomy Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The knowledge acquired and the analytical skills developed provide excellent broad-based training for careers in industry, education and government as well as preparation for graduate study in astronomy and astrophysics, science education, engineering, law, and medicine.

The Department of Astronomy offers two undergraduate degree options. The Bachelor of Science (B.S.) in astrophysics is designed for students who intend to pursue careers in a scientific or technical field by continuing to study astronomy, astrophysics or physics at the graduate level or to commence study in some related field such as planetary science.

The Bachelor of Arts (B.A.) in astronomy is broader and less specialized than the B.S., with the aim of developing and sharpening analytical and quantitative reasoning while at the same time cultivating broader knowledge that can be applied to a variety of careers, including business, law, the health professions, science writing, and teaching.

Coursework for the Major

All students are required to take 10 core courses in mathematics, physics and astronomy. The B.A. in astronomy requires a total of 41 credits; the B.S. in astrophysics requires a minimum of 62 credits. Students pursuing the B.A. have fewer additional required astronomy and physics courses, which offers greater flexibility for taking courses in other disciplines.

All required courses must be completed with minimum grades of C.

Required Courses for Both Degrees

Code	Title	Credits
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
PHY 2048	Physics with Calculus 1	4
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	4
& 2049L	and Laboratory for Physics with Calculus 2	

AST 3018	Astronomy and Astrophysics 1	3
AST 3019	Astronomy and Astrophysics 2	3
AST 3722C	Techniques of Observational Astronomy 1	3
Total Credits		29

Recommended Coursework for Graduate Study

Students should talk with the undergraduate coordinator and plan to take:

Code	Title	Credits
PHY 4604	Introductory Quantum Mechanics 1	3
Select additional courses:		
COP 2271	Computer Programming for Engineers	
MAA 4402	Functions of a Complex Variable	
MAS 3114	Computational Linear Algebra	
PHY 3513	Thermal Physics 1	
PHY 4424	Optics 1	
PHY 4523	Statistical Physics	
STA 3032	Engineering Statistics	

Students of exceptional ability who have some background in physics are encouraged to take the enriched physics with calculus sequence PHY 2060/PHY 2061 instead of PHY 2048/PHY 2049; PHY 3063 may then be taken in place of PHY 3101; and PHZ 3113 may be substituted for PHY 3221.

Relevant Minors and/or Certificates

UFTeach Program

More Info (https://education.ufl.edu/uf-teach)

There is a severe shortage of qualified secondary science teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see the undergraduate coordinator about the UFTeach program. UFTeach students can complete the UFTeach minor in science teaching along with their B.A. in astronomy and have the coursework and preparation for professional teacher certification in Florida when they graduate.

Research

Students pursuing the B.S. in astrophysics are encouraged to engage in research with astronomy faculty by signing up for at least three credits of AST 4911; 3 credits of AST 4911 may count toward the 4000 level requirement; an additional 3 credits of AST 4911 may be applied toward the 4000 level requirement with the approval of the undergraduate coordinator.

Related Astronomy Programs

- Astronomy minor (p. 569)

Bachelor of Science in Astrophysics

The Bachelor of Science (B.S.) in astrophysics is designed for students who intend to pursue careers in a scientific or technical field by continuing to study astronomy, astrophysics or physics at the graduate level or to commence study in some related field such as planetary science.

Additional Required Coursework for the B.S. in Astrophysics

Code	Title	Credits
Four 4000-level AST courses [1]		12
MAP 2302	Elementary Differential Equations	3
PHY 3101	Introduction to Modern Physics	3
PHY 3221	Mechanics 1	3
PHY 4222	Mechanics 2	3
PHY 3323	Electromagnetism 1	3
PHY 4324	Electromagnetism 2	3
Select one:		3
PHY 3513	Thermal Physics 1	
PHY 4424	Optics 1	
PHY 4523	Statistical Physics	
PHY 4604	Introductory Quantum Mechanics 1	
Total Credits		33

[1] Prerequisites: AST 3018 and AST 3019.

The Bachelor of Science (B.S.) in astrophysics is designed for students who intend to pursue careers in a scientific or technical field by continuing to study astronomy, astrophysics or physics at the graduate level or to commence study in some related field such as planetary science.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree (p. 506)**.**

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=400201&track=01) may be used for transfer students.

All students must meet these criteria to remain on track for the major.

Note that critical tracking is the same for both degrees.

Semester 1

- Complete MAC 1147 or MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete MAC 2311
- 2.0 UF GPA required

Semester 3

- Complete MAC 2312, PHY 2048 and PHY 2048L with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete MAC 2313, PHY 2049 and PHY 2049L with 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

UF freshmen and sophomores should take AST 3018 by semester 4

Semester 5

- 2.5 critical-tracking GPA with completion of AST 3018
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**)	4
Gen Ed Biological Sciences		3
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16

Semester Two		
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	1
Gen Ed Biological Sciences		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	14
Semester Three		
AST 3018	Astronomy and Astrophysics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**)	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	1
Gen Ed Social and Behavioral Sciences		3
	Credits	14
Semester Four		
AST 3019	Astronomy and Astrophysics 2 (Gen Ed Physical Sciences)	3
AST 3722C	Techniques of Observational Astronomy 1	3
MAP 2302	Elementary Differential Equations	3
Gen Ed Humanities		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
AST course (4000 level)		3
PHY 3101	Introduction to Modern Physics	3
PHY 3221	Mechanics 1	3
Foreign language		3-5
Elective		3
	Credits	15-17
Semester Six		
AST course (4000 level)		3
PHY 3323	Electromagnetism 1	3
PHY 4222	Mechanics 2	3
Foreign language		3-5
Elective		3
	Credits	15-17
Semester Seven		
AST course (4000 level)		3
Select one:		3
PHY 3513	Thermal Physics 1	
PHY 4424	Optics 1	
PHY 4523	Statistical Physics	
PHY 4604	Introductory Quantum Mechanics 1	
PHY 4324	Electromagnetism 2	3
Gen Ed Composition; Writing Requirement		3
Elective (or complete foreign language if 4-3-3 option)		3
	Credits	15
Semester Eight		
AST course (4000 level)		3
Electives		6
Electives (3000 level, non-major, if needed)		7
	Credits	16
	Total Credits	120

Academic Learning Compact

Astronomy and astrophysics provide knowledge of basic concepts, theories and observational findings concerning the structure and evolution of planetary systems, stars, stellar systems such as galaxies, and cosmology. Students will learn scientific methodology and its application in specific contexts, the use of observations in testing hypotheses and the limitations of astronomical observations as well as how to critically evaluate them.

The Bachelor of Arts in Astronomy enables students to become familiar with modern physics and to understand mathematics, including calculus. The Bachelor of Science in Astrophysics enables students to understand the basic concepts, theories and experimental findings in modern physics, electricity and magnetism, and mechanics as they apply to astronomy and astrophysics.

Before Graduating Students Must

- Demonstrate satisfactory (minimum grades of C) performance on a selection of coursework from each of the 4000-level astronomy courses as graded by a faculty committee independent of the instructor and not as part of the course grade.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. **Bachelor of Arts in Astronomy**
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   Bachelor of Science in Astrophysics
   Identify, describe and define the fundamentals of astrophysics, including mechanics, electromagnetism, modern physics and the basic concepts, theories and observational results for planetary systems, stars, stellar systems and cosmology.
2. Define and use the techniques of astronomical observation.

Critical Thinking

3. Critically evaluate results of astronomical research.

Communication

4. Effectively and clearly communicate ideas and results in speech and in writing in an accepted style of presentation.

Curriculum Map: B.A. and B.S.

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AST 3018	I		I	I
AST 3019	I		I	I
AST 3722C	I, R	I, A	R	R
AST 4211	R, A		R	R
AST 4402	R, A		R	R
AST 4723C	R, A	R, A	R	R
AST 4930 (Planetary System Astrophysics)	R, A		R	R
AST 4930 (Senior Seminar)			A	A

Assessment Types for Both Degrees

- Exams
- Portfolios
- Papers
- Oral presentations

Astronomy Minor

The College of Liberal Arts and Sciences is the largest college on campus, with more than 10,000 undergraduate students pursuing a variety of disciplines through its 33 majors and 48 minors. Undergraduate students acquire an intellectual foundation based on a well-rounded and comprehensive education designed for an increasingly technological and rapidly changing society.

Contact

Office of the Dean
2014 Turlington Hall
P.O Box 117300

Gainesville FL 32611-7300

352.392.0780

Map (http://campusmap.ufl.edu/?loc=0267) More Info (http://www.clas.ufl.edu)

Academic Advising Center (AAC)
Farrior Hall
205 Fletcher Drive

P.O. Box 112015
University of Florida
Gainesville, FL 32611-2015

352.392.1521

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Astronomy Programs**

Of the total credits, no more than three may be individual work. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
AST 3018	Astronomy and Astrophysics 1	3
AST 3019	Astronomy and Astrophysics 2	3
AST 3722C	Techniques of Observational Astronomy 1	3
AST courses (3000/4000 level)		6
Total Credits		15

Related Astronomy Programs

- Bachelor of Arts in Astronomy (p. 560)

Biology UF Online

The online biology major prepares undergraduates for careers in the biological sciences, advanced study in graduate schools, productive citizenship, and leadership and lifelong learning. The program is comprehensive and flexible, emphasizing the diverse forms, processes, and systems of life. Students in the program complete required and elective courses that promote critical thinking through the investigation and understanding of principles and unifying themes that govern living systems. The biology major offers a broader approach to biology than is available through a major in botany, zoology, or other specialized biological sciences majors.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Biology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The biology major develops fundamental knowledge of animals, plants, and microorganisms. The Bachelor of Arts in biology is a flexible degree that is best suited for students interested in a career in education, the allied health professions, and interdisciplinary fields such as environmental or biotechnology law, science journalism, and bioscience management. This degree is not recommended for students seeking admission into professional schools such as medicine, dentistry, or veterinary medicine. Please contact an academic advisor for more information.

Coursework for the Major

All coursework for the major must be completed with minimum grades of C.

Code	Title	Credits
Required Foundation Coursework		
General Biology		
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
Chemistry		
Select one option:		6-8
Option A		
CHM 1030	Basic Chemistry Concepts and Applications 1	
& CHM 1031	and Basic Chemistry Concepts and Applications 2	
Option B		
CHM 2045	General Chemistry 1	
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	
& 2046L	and General Chemistry 2 Laboratory	
Mathematics		
Select one:		4-5
MAC 1147	Precalculus Algebra and Trigonometry	
MAC 1114	Trigonometry	
& MAC 1140	and Precalculus Algebra	
A higher math course		
Physics		
Select one option:		8-10
Option A		
PHY 2004	Applied Physics 1	
& 2004L	and Laboratory for Applied Physics 1	
PHY 2005	Applied Physics 2	
& 2005L	and Laboratory for Applied Physics 2	
Option B		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Option C		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Statistics		
STA 2023	Introduction to Statistics 1	3
Required Core Coursework		
Select at least one biology distribution course from three of five groups: [1,2]		9-13
Molecular Biology, Cellular Biology and Genetics		
AGR 3303	Genetics	
BCH 3023	Elementary Organic and Biological Chemistry [3]	
PCB 3023	Essential Cell Biology	
PCB 3063	Genetics	
PCB 3134	Eukaryotic Cell Structure and Function	
PCB 4522	Molecular Genetics	
PCB 4553	Population Genetics	
Organismal Biology		
BOT 3503	Physiology and Molecular Biology of Plants	
& 3503L	and Physiology and Molecular Biology of Plants Laboratory [3]	
BSC 3096	Human Physiology	
MCB 2000	Microbiology	
& 2000L	and Microbiology Laboratory	

MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms [3]	
PCB 3134	Eukaryotic Cell Structure and Function [3]	
PCB 3713C	Cellular and Systems Physiology [3]	
PCB 4712	Comparative Biomechanics [3]	
PCB 4723C	Physiology and Molecular Biology of Animals [3]	
ZOO 3603C	Evolutionary Developmental Biology	
ZOO 3713C	Functional Vertebrate Anatomy	
Ecology		
BSC 3307C	Climate Change Biology	
PCB 3601C	Plant Ecology	
PCB 4043C	General Ecology	
Evolution and Diversity		
BOT 2011C	Plant Diversity	
BOT 2710C	Practical Plant Taxonomy	
BOT 3151C	Local Flora of North Florida	
PCB 4674	Evolution [3]	
ZOO 3513C	Animal Behavior	
ZOO 4205C	Invertebrate Biodiversity	
ZOO 4307C	Vertebrate Biodiversity	
Biology and Society		
AGG 3501	Environment, Food and Society	
ALS 4162/6935	Consequences of Biological Invasions	
BOT 2800C	Plants in Human Affairs	
PLP 2000	Plants, Plagues and People	
PLP 2060	Fungus among Us: Mushrooms, Molds and Civilization	
PSB 3002	Physiological Psychology	
VEC 2100	World Herbs and Vegetables	
B.A. Electives		
Additional biology distribution courses or approved biological science courses. At least nine credits of B.A. Electives must be taken at UF.		15
Capstone		
BSC 4936	Critical Analysis of Biological Research	2
Total Credits		55-64

1 This major requires a minimum of 30 credits in core courses. At least 18 of the 30 credits of the required core coursework must be taken at UF. Any additional credits remaining after completion of required coursework must be met by taking courses from the approved additional life sciences electives. Any additional credits remaining after completion of the required core coursework must be met by taking courses from the approved B.A. electives in the biological sciences.

2 At least two Biology Distribution Courses must be taken at UF. Only one 2000-level course may be applied to the Biology Distribution Course requirement. Students must complete at least one course from three of the five following group. Please note: classes vary from 3-5 credits in each category.

3 Course has specific prerequisites; students should consult the course description when planning their programs to ensure they may select this course.

Related Biology Programs

- Bachelor of Science in Biology, CALS (p. 72)
- Bachelor of Science or Bachelor of Arts in Biology, CLAS (p. 576)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260101&track=01) may be used for transfer students.

Semester 1

- Complete one of the following: BSC 2010 and BSC 2010L; or CHM 1025 or CHM 1030 or CHM 2045 and CHM 2045L; or MAC 1147 or equivalent or higher math course
- 2.0 UF GPA required

Semester 2

- Complete CHM 1030 or CHM 2045 and CHM 2045L and one of the following: BSC 2010 and BSC 2010L or MAC 1147 or equivalent or higher MAC course
- 2.0 UF GPA required

Semester 3

- Complete BSC 2010 and BSC 2010L and MAC 1147 or equivalent or higher MAC course
- 2.0 UF GPA required

Semester 4

- Complete CHM 1031 or CHM 2046 and CHM 2046L; BSC 2011 and BSC 2011L; and MAC 1147 or equivalent or higher MAC course with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete at least one biology distribution course
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**)	
CHM 2045	General Chemistry 1	
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23)		3
	Credits	13-14
Semester Two		
Select one:		3-4
CHM 1031	Basic Chemistry Concepts and Applications 2 (**Critical Tracking**)	
CHM 2046	General Chemistry 2	
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**)	
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Gen Ed Composition (Writing Requirement)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Electives		4
	Credits	16-17

Semester Three		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences)	4
Gen Ed Social and Behavioral Sciences		3
Foreign language		5
Elective		3
	Credits	15
Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Foreign language		5
	Credits	15
Semester Five		
Select one:		4-5
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1	
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1	
Biology distribution courses (**Critical Tracking**)		6
Elective (3000 level or above, not in major)		3
Elective		3
	Credits	16-17
Semester Six		
Select one:		4-5
PHY 2005 & 2005L	Applied Physics 2 and Laboratory for Applied Physics 2	
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2	
Gen Ed Humanities		3
Biology distribution course		3
Elective (3000 level or above; not in major)		3
Elective		3
	Credits	16-17
Semester Seven		
Approved Biology electives		9
Electives (3000 level or above, not in major)		6
	Credits	15
Semester Eight		
BSC 4936	Critical Analysis of Biological Research	2
Approved Biology electives		6
Electives (3000 level or above, not in major)		6
	Credits	14
	Total Credits	120

Approved Electives

Code	Title	Credits
ALS 3153	Agricultural Ecology	3
ALS 4162	Consequences of Biological Invasions [1]	3
ANS 3006	Introduction to Animal Science	3
ANT 3514C	Introduction to Biological Anthropology	4
ANT 3515	Human Evolutionary Anatomy	3
ANT 3520	Skeleton Keys: Forensic Identification	3
APK 2100C	Applied Human Anatomy with Laboratory	4
BOT 2011C	Plant Diversity	4
BSC 3096	Human Physiology [1]	3

ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3
ENY 3007C	Life Science	3
ENY 4161	Insect Classification	3
ENY 4210	Insects and Wildlife	3
ENY 4660 & 4660L	Medical and Veterinary Entomology and Medical and Veterinary Entomology Laboratory	3
GLY 3603C	Paleontology	4
NEM 3002	Principles of Nematology	3
PCB 3023	Essential Cell Biology [1]	3
PCB 3063	Genetics [1]	4
PCB 4043C	General Ecology [1]	4
PCB 4522	Molecular Genetics [1]	3
PCB 4674	Evolution [1]	4
PCB 4723C	Physiology and Molecular Biology of Animals [1]	5
PSB 3002	Physiological Psychology [1]	3
SWS 4223	Environmental Biogeochemistry	3
ZOO 3603C	Evolutionary Developmental Biology [1]	4
ZOO 3713C	Functional Vertebrate Anatomy [1]	4
ZOO 4232	Human Parasitology [1]	3

[1] Cannot be counted as both an elective and a Biology Distribution Course.

Academic Learning Compact

Biology is the study of the many diverse forms, processes and systems of life. These studies range across all levels of the biological hierarchy, from the simplest to the most complex life forms, across all environments on the earth and across recent and evolutionary time that interconnects ancestors to their descendants.

To understand this vast diversity, the field of biology correspondingly relies on integrative and comparative approaches for the resolution of the general processes, principles and unifying themes that govern living systems. Biology is therefore very interdisciplinary and biologists rely on knowledge from the physical sciences and mathematics, as well as from across the disciplines and subdisciplines of biology for advances and breakthroughs.

The biology major is administered jointly by the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences.

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- Achieve a passing score on the scientific literacy paper assignment given in BSC 4936. This paper is graded using a faculty-developed rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		R
ANS 3319C or BOT 3503 or HOS 4304 or PCB 3713C or PCB 4723C	R	R		R
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Biology | CLAS

The biology majors combine the faculty and resources of the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences to prepare undergraduates for careers in the biological sciences, advanced study in professional and graduate schools, productive citizenship and leadership, and lifelong learning. The program is comprehensive and flexible, emphasizing the diverse forms, processes, and systems of life. Students in the program complete required and elective courses that promote critical thinking through the investigation and understanding of principles and unifying themes that govern living systems. The biology major offers a broader approach to biology than is available through a major in botany, zoology, or other specialized biological sciences majors.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 578) | B.S.: Integrative Biology (p. 585) | B.S.: Preprofessional Biology (p. 590)
- **Credits for Degree:** 120
- **Additional Information**
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The biology degrees develop fundamental knowledge of animals, plants and microorganisms. The degrees and specializations are tailored to meet the needs of preprofessional students, those students preparing for graduate studies in biology or specialized areas, and those seeking careers in education, the allied health professions and interdisciplinary fields such as environmental or biotechnology law, science journalism, and bioscience management.

Bachelor of Science

The CLAS Bachelor of Science in biology offers two specializations.

Bachelor of Science | Integrative Biology

Designed for students preparing for graduate studies in biology or specialized areas such as ecology, evolution, genetics, molecular biology, physiology, and systematics.

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The B.S. biology specializations require significant introductory coursework and credits in general biology, calculus and/or statistics, general chemistry, organic chemistry, and physics. The B.A. requires less preparation in mathematics, chemistry and physics. Students who are uncertain

about the program that best suits their goals should consult a biology advisor for information and curriculum planning. Students can also individualize their curricula with additional life science courses from other departments, colleges and units at UF.

Relevant Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified secondary school biology teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a biology advisor or the UFTeach advisor. UFTeach students complete the UFTeach minor in science teaching with their B.A. or B.S. in biology and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Research

All biology majors are encouraged to participate in research. Research experience is valuable on many levels: it diversifies the college experience, teaches how scientists apply the knowledge gained in the classroom to real world questions, provides the opportunity to work with and get to know researchers who are the best in their field, enables participation in cutting edge scientific questions and techniques, enhances the student's resume/CV when applying to graduate or professional school and, finally, it is essential to help the student determine if science is an appropriate career choice.
More Info (http://major.biology.ufl.edu/do-research)

CLAS biology majors may participate in research for course credit, as a scholar (e.g., University Scholar), as a volunteer, or, in rare cases, as a paid research assistant.

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- Bachelor of Arts in Biology, UF Online (p. 570)

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Bachelor of Arts

The B.A. major is designed for students interested in a career in education, the allied health professions, and interdisciplinary fields such as environmental or biotechnology law, science journalism, and bioscience management. The B.A. is not recommended for students preparing for health professions such as medicine, dentistry, and veterinary medicine.

All coursework for the major must be completed with minimum grades of C.

Code	Title	Credits
Required Foundation Coursework		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	4
Select one option:		6-8
Option A		
CHM 1030 & CHM 1031	Basic Chemistry Concepts and Applications 1 and Basic Chemistry Concepts and Applications 2	
Option B		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	
Select one:		4-5
MAC 1147	Precalculus Algebra and Trigonometry	
MAC 1114 & MAC 1140	Trigonometry and Precalculus Algebra	
A higher math course		
Select one option:		8-10
Option A		
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1	

PHY 2005	Applied Physics 2	
& 2005L	and Laboratory for Applied Physics 2	
Option B		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
STA 2023	Introduction to Statistics 1	3
Required Core Coursework [1]		
Biology Distribution Courses		
Select at least one course from three of five groups:		9-13
Molecular Biology, Cellular Biology and Genetics		
AGR 3303	Genetics	
BCH 3023	Elementary Organic and Biological Chemistry	
PCB 3023	Essential Cell Biology [3]	
PCB 3063	Genetics	
PCB 3134	Eukaryotic Cell Structure and Function	
PCB 4522	Molecular Genetics	
or PCB 4553	Population Genetics	
Organismal Biology		
BOT 3503	Physiology and Molecular Biology of Plants	
& 3503L	and Physiology and Molecular Biology of Plants Laboratory [3]	
BSC 3096	Human Physiology	
MCB 2000	Microbiology	
& 2000L	and Microbiology Laboratory	
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms [3]	
PCB 3134	Eukaryotic Cell Structure and Function [3]	
PCB 3713C	Cellular and Systems Physiology [3]	
PCB 4712	Comparative Biomechanics [3]	
PCB 4723C	Physiology and Molecular Biology of Animals [3]	
ZOO 3603C	Evolutionary Developmental Biology	
ZOO 3713C	Functional Vertebrate Anatomy	
Ecology		
BSC 3307C	Climate Change Biology	
PCB 3601C	Plant Ecology	
PCB 4043C	General Ecology	
Evolution and Diversity		
BOT 2011C	Plant Diversity	
BOT 2710C	Practical Plant Taxonomy	
BOT 3151C	Local Flora of North Florida	
PCB 4674	Evolution [3]	
ZOO 3513C	Animal Behavior	
ZOO 4205C	Invertebrate Biodiversity	
ZOO 4307C	Vertebrate Biodiversity	
Biology and Society		
AGG 3501	Environment, Food and Society	
AGR 2332	Seeds of Change	
BOT 2800C	Plants in Human Affairs	
PLP 2000	Plants, Plagues and People	
PLP 2060	Fungus among Us: Mushrooms, Molds and Civilization	
PSB 3002	Physiological Psychology	
VEC 2100	World Herbs and Vegetables	
B.A. Electives [4]		
Approved biological science courses (minimum)		15
Capstone		
BSC 4936	Critical Analysis of Biological Research	2
Total Credits		55-64

[1] This major requires a minimum of 30 credits in core courses. **At least 18 of the 30 credits of the required core coursework must be taken at UF.** Any additional credits remaining after completion of required coursework must be met by taking courses from the approved additional life sciences electives.

2 At least two Biology Distribution Courses must be taken at UF. Only one 2000-level course may be applied to the Biology Distribution Course requirement.

3 Course has specific prerequisites. Students should consult the course description when planning their programs to ensure that they may select this course.

4 At least nine credits of B.A. Electives must be taken at UF.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260101&track=01) may be used for transfer students.

Semester 1

- Complete one of the following: BSC 2010/BSC 2010L; or CHM 1025 or CHM 1030 or CHM 2045/CHM 2045L; or MAC 1147 or equivalent or higher math course
- 2.0 UF GPA required

Semester 2

- Complete CHM 1030 or CHM 2045/CHM 2045L and one of the following: BSC 2010/BSC 2010L or MAC 1147 or equivalent or higher MAC course
- 2.0 UF GPA required

Semester 3

- Complete BSC 2010/BSC 2010L and MAC 1147 or equivalent or higher MAC course
- 2.0 UF GPA required

Semester 4

- Complete CHM 1031 or CHM 2046/CHM 2046L; BSC 2011/BSC 2011L; and MAC 1147 or equivalent or higher MAC course with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete at least one biology distribution course
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

Approved Biology electives may not count towards the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3-4
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2045	General Chemistry 1	
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4

BSC 1920	First Year Introduction: Biology at UF (recommended biology elective)	1
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	14-15
Semester Two		
Select one:		3-4
CHM 1031	Basic Chemistry Concepts and Applications 2 (**Critical Tracking**)	
CHM 2046	General Chemistry 2	
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**)	
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3-4
	Credits	15-17
Semester Three		
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences)	
Gen Ed Social and Behavioral Sciences		3
Foreign language		5
Elective		3
	Credits	15
Semester Four		
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Foreign language		5
	Credits	15
Semester Five		
PHY 2004	Applied Physics 1	4
& 2004L	and Laboratory for Applied Physics 1	
Biology distribution courses (**Critical Tracking**)		6-8
Elective (3000 level or above, not in major)		3
Elective		3
	Credits	16-18
Semester Six		
PHY 2005	Applied Physics 2	4
& 2005L	and Laboratory for Applied Physics 2	
Gen Ed Humanities		3
Biology distribution course		3-5
Elective (3000 level or above, not in major)		3
Elective		3
	Credits	16-18
Semester Seven		
Approved electives		9
Electives (3000 level or above, not in major)		6
	Credits	15
Semester Eight		
BSC 4936	Critical Analysis of Biological Research	2
Approved electives		6
Electives (3000 level or above, not in major)		6
	Credits	14
	Total Credits	120

Approved Electives

Code	Title	Credits
AGR 4320	Plant Breeding	3
ALS 3153	Agricultural Ecology	3
ALS 4161	Exotic Species and Biosecurity Issues	3

ALS 4162	Consequences of Biological Invasions	3
ALS 4163	Challenges in Plant Resource Protection	3
ANS 3006 & 3006L	Introduction to Animal Science and Introduction to Animal Science Laboratory	4
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	4
ANS 3440	Principles of Animal Nutrition	4
ANT 3514C	Introduction to Biological Anthropology	4
ANT 4531	Molecular Genetics of Disease	3
ANT 4552	Primate Behavior	3
ANT 4554C	Primate Evolution	3
ANT 4586	Human Evolution	3
APK 2100C	Applied Human Anatomy with Laboratory	4
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
BMS 4136C	Human Histology	4
BOT 2710C	Practical Plant Taxonomy	3
BOT 2800C	Plants in Human Affairs	3
BOT 3151C	Local Flora of North Florida	3
BOT 3503 & 3503L	Physiology and Molecular Biology of Plants and Physiology and Molecular Biology of Plants Laboratory	5
BOT 4621	Plant Geography	2
BOT 4935	Special Topics	1-4
BSC 1920	First Year Introduction: Biology at UF	1
BSC 2862	Global Change Ecology and Sustainability	3
BSC 3402	Theory and Practice in the Biological Sciences	2
BSC 3422C	Principles of the Biotechnology Industry	2
BSC 3911	Entering Research in Biology	1
BSC 4821C	Evolutionary Biogeography	3
BSC 4910	Individual Mentored Research in Biology	0-3
BSC 4912	Advanced Mentored Research in Biology	0-4
ENY 2890	Using Insect Research to Understand the Nature of Scientific Engagement	3
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3
ENY 3007C	Life Science	3
ENY 3163	Invertebrate Field Biology	3
ENY 3563	Introduction to Tropical Entomology	3
ENY 3564L	Tropical Entomology Field Laboratory	2
ENY 4161	Insect Classification	3
ENY 4210	Insects and Wildlife	3
ENY 4453	Behavioral Ecology and Systematics	3
ENY 4455C	Social Insects	3
ENY 4660 & 4660L	Medical and Veterinary Entomology and Medical and Veterinary Entomology Laboratory	3
FAS 4202C	Biology of Fishes	4
FAS 4305C	Introduction to Fishery Science	3
FOR 3342C	Tree Biology	3
GLY 3603C	Paleontology	4
HOS 3305	Introduction to Plant Molecular Biology	3
HOS 4304	Horticultural Physiology	3
HOS 4313C	Laboratory Methods in Plant Molecular Biology	2
HUN 4221	Nutrition and Metabolism	3
HUN 4445	Nutrition and Disease: Part 1	2
HUN 4446	Nutrition and Disease: Part 2	3
MCB 4203	Bacterial Pathogens	3
MCB 4304	Genetics of Microorganisms	3
MCB 4320C	The Microbiome	3
MCB 4403	Prokaryotic Cell Structure and Function	3
MCB 4503	General Virology	3
NEM 3002	Principles of Nematology	3
PCB 3023	Essential Cell Biology	3
PCB 3134	Eukaryotic Cell Structure and Function	3
PCB 3601C	Plant Ecology	3
PCB 4043C	General Ecology	4

PCB 4085	Genetical Ethics	1
PCB 4233	Immunology	3
PCB 4522	Molecular Genetics	3
PCB 4553	Population Genetics	4
PCB 4674	Evolution	4
PLP 3002C	Fundamentals of Plant Pathology	4
PLS 3004C	Principles of Plant Science	3
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
PSB 3002	Physiological Psychology	3
PSB 3340	Behavioral Neuroscience	3
PSB 4434	Neurochemistry, Pharmacology and Behavior	3
PSB 4504	Developmental Psychobiology	3
PSB 4654	Chemical Senses and Behavior	3
PSB 4810	Neurobiology of Learning and Memory	3
PSB 4823	Principles of Integrative Physiological Psychology	3
SWS 4223	Environmental Biogeochemistry	3
WIS 3553C	Introduction to Conservation Genetics	4
WIS 4203C	Landscape Ecology and Conservation	3
WIS 4443C	Wetland Wildlife Ecology	4
WIS 4501	Introduction to Wildlife Population Ecology	3
WIS 4547C	Avian Field Techniques	2
WIS 4554	Conservation Biology	3
WIS 4601C	Quantitative Wildlife Ecology	3
WIS 4945C	Wildlife Techniques	4
ZOO 3513C	Animal Behavior	4
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ZOO 4205C	Invertebrate Biodiversity	4
ZOO 4232	Human Parasitology	3
ZOO 4307C	Vertebrate Biodiversity	4
ZOO 4403C	Marine Biology	4
ZOO 4472C	Avian Biology	4
ZOO 4926	Special Topics in Zoology	1-4

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The biology degrees develop fundamental knowledge of animals, plants and microorganisms. The degrees and specializations are tailored to meet the needs of preprofessional students, those students preparing for graduate studies in biology or specialized areas, and those seeking careers in education, the allied health professions and interdisciplinary fields such as environmental or biotechnology law, science journalism, and bioscience management.

Bachelor of Science

The CLAS Bachelor of Science in biology offers two specializations.

Bachelor of Science | Integrative Biology

Designed for students preparing for graduate studies in biology or specialized areas such as ecology, evolution, genetics, molecular biology, physiology, and systematics.

Bachelor of Science | Preprofessional Biology

Designed for students preparing for admission to medical, dental, optometry, veterinary, or other professional schools.

Bachelor of Arts

The CLAS Bachelor of Arts in biology is a flexible degree that is best suited for students interested in a career in education, the allied health professions, and interdisciplinary fields such as environmental or biotechnology law, science journalism, and bioscience management.

Coursework for the Majors

The B.S. biology specializations require significant introductory coursework and credits in general biology, calculus and/or statistics, general chemistry, organic chemistry, and physics. The B.A. requires less preparation in mathematics, chemistry and physics. Students who are uncertain about the program that best suits their goals should consult a biology advisor for information and curriculum planning. Students can also individualize their curricula with additional life science courses from other departments, colleges and units at UF.

Relevant Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified secondary school biology teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a biology advisor or the UFTeach advisor. UFTeach students complete the UFTeach minor in science teaching with their B.A. or B.S. in biology and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Research

All biology majors are encouraged to participate in research. Research experience is valuable on many levels: it diversifies the college experience, teaches how scientists apply the knowledge gained in the classroom to real world questions, provides the opportunity to work with and get to know researchers who are the best in their field, enables participation in cutting edge scientific questions and techniques, enhances the student's resume/CV when applying to graduate or professional school and, finally, it is essential to help the student determine if science is an appropriate career choice.
More Info (http://major.biology.ufl.edu/do-research)

CLAS biology majors may participate in research for course credit, as a scholar (e.g., University Scholar), as a volunteer, or, in rare cases, as a paid research assistant.

Related Biology Programs

- Bachelor of Science in Biology, CALS (p. 72)
- Bachelor of Arts in Biology, UF Online (p. 570)

Bachelor of Science | Integrative Biology

The B.S. | Integrative Biology specialization is designed for students seeking admission to graduate school in biology or specialized areas such as ecology, evolution, genetics, molecular biology, physiology, and systematics.

All coursework for the major must be completed with minimum grades of C.

Code	Title	Credits
Required Foundation Coursework		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	4
CHM 2210	Organic Chemistry 1	3
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5

MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	3-4
or STA 2023	Introduction to Statistics 1	
Select one option:		8-10
Option A		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option B		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Required Core Coursework [1]		
BSC 4936	Critical Analysis of Biological Research	2
PCB 4674	Evolution	4
Select one:		3-4
PCB 3063	Genetics	
AGR 3303	Genetics	
PCB 4522	Molecular Genetics	
PCB 4043C	General Ecology	4
Select one:		4-5
BOT 3503	Physiology and Molecular Biology of Plants	
& 3503L	and Physiology and Molecular Biology of Plants Laboratory	
PCB 3713C	Cellular and Systems Physiology	
PCB 4723C	Physiology and Molecular Biology of Animals	
Select one:		3-4
PCB 3134	Eukaryotic Cell Structure and Function	
ZOO 3713C	Functional Vertebrate Anatomy	
ZOO 3603C	Evolutionary Developmental Biology	
Taxonomic Diversity. Select at least one course from two of three groups:		7-8
Animal Diversity		
ZOO 4205C	Invertebrate Biodiversity	
or ZOO 4307C	Vertebrate Biodiversity	
Plant and Fungal Diversity		
BOT 2011C	Plant Diversity	
or BOT 2710C	Practical Plant Taxonomy	
Microorganisms and Microbial Diversity		
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms	
Total Credits		66-73

[1] This degree requires a minimum of 27 credits in core courses.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260101&track=01) may be used for transfer students.

Semester 1

- Complete one of the following in BSC, CHM or MAC: BSC 2010/BSC 2010L; CHM 1025 or CHM 2045/CHM 2045L; MAC 1140, MAC 1114, MAC 1147 or MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L; and BSC 2010/BSC 2010L or MAC 2311
- 2.0 UF GPA required

Semester 3

- Complete BSC 2010/BSC 2010L and MAC 2311 with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete CHM 2046/CHM 2046L and BSC 2011/BSC 2011L with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete CHM 2210 with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

CHM 2211, CHM 2211L, PHY 2054, PHY 2054L, PHY 2049, and PHY 2049L count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
BSC 1920	First Year Introduction: Biology at UF (recommended elective)	1
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**)	
Select one:		3-4
MAC 2312	Analytic Geometry and Calculus 2 (Gen Ed Mathematics)	
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Gen Ed Social and Behavioral Sciences		3
Elective		3
	Credits	16-17
Semester Three		
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	
Select one:		3-4
CHM 2210	Organic Chemistry 1 (**Critical Tracking**)	
CHM 3217	Organic Chemistry/Biochemistry 1 (**Critical Tracking**)	
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Elective		3
	Credits	16-17

Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2211 or CHM 3218	Organic Chemistry 2 [1] or Organic Chemistry/Biochemistry 2	3-4
CHM 2211L	Organic Chemistry Laboratory	2
Gen Ed Composition		3
Gen Ed Humanities		3
	Credits	15-16
Semester Five		
PCB 4043C	General Ecology	4
PHY 2048 or PHY 2053	Physics with Calculus 1 or Physics 1	3-4
PHY 2048L or PHY 2053L	Laboratory for Physics with Calculus 1 or Laboratory for Physics 1	1
Electives (3000 level or above, not in major, if needed)		6
	Credits	14-15
Semester Six		
Select one:		3-4
PCB 3063	Genetics	
AGR 3303	Genetics	
PCB 4522	Molecular Genetics	
PHY 2049 or PHY 2054	Physics with Calculus 2 or Physics 2	3-4
PHY 2049L or PHY 2054L	Laboratory for Physics with Calculus 2 or Laboratory for Physics 2	1
Taxonomic diversity course 1		3-4
Electives		5
	Credits	15-18
Semester Seven		
Select one:		3-4
PCB 3134	Eukaryotic Cell Structure and Function	
ZOO 3603C	Evolutionary Developmental Biology	
ZOO 3713C	Functional Vertebrate Anatomy	
Taxonomic diversity course 2		3-4
Foreign language		5
Elective (3000 level or above, not in major)		3
	Credits	14-16
Semester Eight		
Select one:		4-5
BOT 3503 & 3503L	Physiology and Molecular Biology of Plants and Physiology and Molecular Biology of Plants Laboratory	
PCB 3713C	Cellular and Systems Physiology	
PCB 4723C	Physiology and Molecular Biology of Animals	
BSC 4936	Critical Analysis of Biological Research	2
PCB 4674	Evolution	4
Foreign language		5
	Credits	15-16
	Total Credits	120

[1] Select CHM 2211 if CHM 2210 was taken previously.

Academic Learning Compact

Biology is the study of the many diverse forms, processes and systems of life. These studies range across all levels of the biological hierarchy, from the simplest to the most complex life forms, across all environments on the earth and across recent and evolutionary time that interconnects ancestors to their descendants.

To understand this vast diversity, the field of biology correspondingly relies on integrative and comparative approaches for the resolution of the general processes, principles and unifying themes that govern living systems. Biology is therefore very interdisciplinary and biologists rely on

knowledge from the physical sciences and mathematics, as well as from across the disciplines and subdisciplines of biology for advances and breakthroughs.

The biology major is administered jointly by the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences.

Before Graduating Students Must

- Achieve a passing score for all content subsections of the Major Field Test for Biology. Content subscore areas are molecular biology and genetics, organismal biology, evolution, ecology and population biology.
- Achieve a passing score on the analytical skills assessment indicator of the Major Field Test for Biology.
- Achieve a passing score on the bioethics module quiz in BSC 4936. The content of the module and quiz are reviewed and approved by a faculty committee.
- Achieve a passing score on the scientific literacy paper assignment given in BSC 4936. This paper is graded using a faculty-developed rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		R
ANS 3319C or BOT 3503 or HOS 4304 or PCB 3713C or PCB 4723C	R	R		R
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and MCB 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Biology | Preprofessional Biology

The biology majors combine the faculty and resources of the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences to prepare undergraduates for careers in the biological sciences, advanced study in professional and graduate schools, productive citizenship and leadership, and lifelong learning. The program is comprehensive and flexible, emphasizing the diverse forms, processes, and systems of life. Students in the program complete required and elective courses that promote critical thinking through the investigation and understanding of principles and unifying themes that govern living systems. The biology major offers a broader approach to biology than is available through a major in botany, zoology, or other specialized biological sciences majors.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 578) | B.S.: Integrative Biology (p. 585) | B.S.: Preprofessional Biology (p. 590)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Biology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The biology degrees develop fundamental knowledge of animals, plants and microorganisms. The degrees and specializations are tailored to meet the needs of preprofessional students, those students preparing for graduate studies in biology or specialized areas, and those seeking careers in education, the allied health professions and interdisciplinary fields such as environmental or biotechnology law, science journalism, and bioscience management.

Bachelor of Science

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Bachelor of Science | Preprofessional Biology

Designed for students preparing for admission to medical, dental, optometry, veterinary, or other professional schools.

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The CLAS Bachelor of Arts in biology is a flexible degree that is best suited for students interested in a career in education, the allied health professions, and interdisciplinary fields such as environmental or biotechnology law, science journalism, and bioscience management.

Coursework for the Majors

The B.S. biology specializations require significant introductory coursework and credits in general biology, calculus and/or statistics, general chemistry, organic chemistry, and physics. The B.A. requires less preparation in mathematics, chemistry and physics. Students who are uncertain about the program that best suits their goals should consult a biology advisor for information and curriculum planning. Students can also individualize their curricula with additional life science courses from other departments, colleges and units at UF.

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More Info (http://education.ufl.edu/uf-teach)

Research

All biology majors are encouraged to participate in research. Research experience is valuable on many levels: it diversifies the college experience, teaches how scientists apply the knowledge gained in the classroom to real world questions, provides the opportunity to work with and get to know researchers who are the best in their field, enables participation in cutting edge scientific questions and techniques, enhances the student's resume/CV when applying to graduate or professional school and, finally, it is essential to help the student determine if science is an appropriate career choice.
More Info (http://major.biology.ufl.edu/do-research)

CLAS biology majors may participate in research for course credit, as a scholar (e.g., University Scholar), as a volunteer, or, in rare cases, as a paid research assistant.

Related Biology Programs

- Bachelor of Science in Biology, CALS (p. 72)
- Bachelor of Arts in Biology, UF Online (p. 570)

Bachelor of Science | Preprofessional Biology

The B.S. | Preprofessional Biology specialization is designed for students preparing for admission to medical, dental, optometry, veterinary, or other professional schools. Students in this track should contact the biology advisor or the Academic Advising Center in 100 Farrior Hall for specific requirements.

All coursework for the major must be completed with minimum grades of C.

Code	Title	Credits
Required Foundation Coursework		
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	
CHM 2210	Organic Chemistry 1	3
CHM 2211	Organic Chemistry 2	5
& 2211L	and Organic Chemistry Laboratory	
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	3-4
or STA 2023	Introduction to Statistics 1	
Select one option:		8-10
Option A		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option B		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Required Core Coursework [1]		
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
BSC 4936	Critical Analysis of Biological Research	2
Select one:		3-4
PCB 3063	Genetics	
AGR 3303	Genetics	
PCB 4522	Molecular Genetics	
Select one of the following:		3-4
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms	
PCB 3134	Eukaryotic Cell Structure and Function	
Select one:		4-5
BSC 3096	Human Physiology	
PCB 3713C	Cellular and Systems Physiology	
PCB 4723C	Physiology and Molecular Biology of Animals	
B.S. Preprofessional Electives		
Additional approved life sciences courses (Minimum; a maximum of 6 credits of approved research may be applied to this requirement)		12
Total Credits		67-73

[1] This degree requires a minimum of 28 credits in core courses. Any additional credits remaining after completion of the required core coursework must be met by taking courses from the approved B.S. preprofessional electives in the biological sciences.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260101&track=01) may be used for transfer students.

Semester 1

- Complete one of the following in BSC, CHM or MAC: BSC 2010/BSC 2010L; CHM 1025 or CHM 2045/CHM 2045L; MAC 1140, MAC 1114, MAC 1147 or MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L; and BSC 2010/BSC 2010L or MAC 2311
- 2.0 UF GPA required

Semester 3

- Complete BSC 2010/BSC 2010L and MAC 2311 with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete CHM 2046/CHM 2046L and BSC 2011/BSC 2011L with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete CHM 2210 with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

Additional Life Science courses may not count as 3000 level or above electives outside of the major. CHM 2211, CHM 2211L, PHY 2054, PHY 2054L, PHY 2049, and PHY 2049L may count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
BSC 1920	First Year Introduction: Biology at UF (recommended elective)	1
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**)	
Select one:		3-4
MAC 2312	Analytic Geometry and Calculus 2 (Gen Ed Mathematics)	
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	

Gen Ed Social and Behavioral Sciences		3
Elective		3
	Credits	13-14
Semester Three		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2210	Organic Chemistry 1 (**Critical Tracking**)	3
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
Gen Ed Humanities		3
Elective		3
	Credits	15
Semester Five		
Select one:		3-4
AGR 3303	Genetics	
PCB 3063	Genetics	
PCB 4522	Molecular Genetics	
PHY 2048 or PHY 2053	Physics with Calculus 1 or Physics 1	3-4
PHY 2048L or PHY 2053L	Laboratory for Physics with Calculus 1 or Laboratory for Physics 1	1
Gen Ed Composition		3
Foreign language		5
	Credits	15-17
Semester Six		
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
PHY 2049 or PHY 2054	Physics with Calculus 2 or Physics 2	3-4
PHY 2049L or PHY 2054L	Laboratory for Physics with Calculus 2 or Laboratory for Physics 2	1
Foreign language		5
Elective		3
	Credits	16-17
Semester Seven		
Select one:		3-4
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	
PCB 3134	Eukaryotic Cell Structure and Function	
Approved electives		6
Electives (3000 level or above, not in major)		6
	Credits	15-16
Semester Eight		
BSC 4936	Critical Analysis of Biological Research	2
PCB 3713C or PCB 4723C	Cellular and Systems Physiology or Physiology and Molecular Biology of Animals	4-5
Approved electives		6
Elective (3000 level or above, not in major)		3
	Credits	15-16
	Total Credits	120

Approved Electives

Code	Title	Credits
AGR 4320	Plant Breeding	3
ALS 4161	Exotic Species and Biosecurity Issues	3
ALS 4162	Consequences of Biological Invasions	3
ALS 4163	Challenges in Plant Resource Protection	3
ANS 3006	Introduction to Animal Science	4
& 3006L	and Introduction to Animal Science Laboratory	
ANS 3319C	Reproductive Physiology and Endocrinology in Domestic Animals	4
ANS 3440	Principles of Animal Nutrition	4
ANT 4531	Molecular Genetics of Disease	3
ANT 4552	Primate Behavior	3
ANT 4554C	Primate Evolution	3
ANT 4586	Human Evolution	3
BMS 4136C	Human Histology	4
BOT 2710C	Practical Plant Taxonomy	3
BOT 2800C	Plants in Human Affairs	3
BOT 3151C	Local Flora of North Florida	3
BOT 3503	Physiology and Molecular Biology of Plants	5
& 3503L	and Physiology and Molecular Biology of Plants Laboratory	
BOT 4621	Plant Geography	2
BOT 4935	Special Topics	1-4
BSC 1920	First Year Introduction: Biology at UF	1
BSC 2862	Global Change Ecology and Sustainability	3
BSC 3402	Theory and Practice in the Biological Sciences	2
BSC 3422C	Principles of the Biotechnology Industry	2
BSC 3911	Entering Research in Biology	1
BSC 4821C	Evolutionary Biogeography	3
BSC 4910	Individual Mentored Research in Biology	0-3
BSC 4912	Advanced Mentored Research in Biology	0-4
ENY 2890	Using Insect Research to Understand the Nature of Scientific Engagement	3
ENY 3005	Principles of Entomology	3
& 3005L	and Principles of Entomology Laboratory	
ENY 3163	Invertebrate Field Biology	3
ENY 3563	Introduction to Tropical Entomology	3
ENY 3564L	Tropical Entomology Field Laboratory	2
ENY 4161	Insect Classification	3
ENY 4210	Insects and Wildlife	3
ENY 4453	Behavioral Ecology and Systematics	3
ENY 4455C	Social Insects	3
ENY 4660	Medical and Veterinary Entomology	3
& 4660L	and Medical and Veterinary Entomology Laboratory	
FAS 4202C	Biology of Fishes	4
FAS 4305C	Introduction to Fishery Science	3
FOR 3342C	Tree Biology	3
GLY 3603C	Paleontology	4
HOS 3305	Introduction to Plant Molecular Biology	3
HOS 4304	Horticultural Physiology	3
HOS 4313C	Laboratory Methods in Plant Molecular Biology	2
HUN 4221	Nutrition and Metabolism	3
HUN 4445	Nutrition and Disease: Part 1	2
HUN 4446	Nutrition and Disease: Part 2	3
MCB 4203	Bacterial Pathogens	3
MCB 4304	Genetics of Microorganisms	3
MCB 4320C	The Microbiome	3
MCB 4403	Prokaryotic Cell Structure and Function	3
MCB 4503	General Virology	3
NEM 3002	Principles of Nematology	3
PCB 3023	Essential Cell Biology	3
PCB 3134	Eukaryotic Cell Structure and Function	3
PCB 3601C	Plant Ecology	3

PCB 4043C	General Ecology	4
PCB 4085	Genetical Ethics	1
PCB 4233	Immunology	3
PCB 4522	Molecular Genetics	3
PCB 4553	Population Genetics	4
PCB 4674	Evolution	4
PLP 3002C	Fundamentals of Plant Pathology	4
PLS 3004C	Principles of Plant Science	3
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
PSB 3002	Physiological Psychology	3
PSB 3340	Behavioral Neuroscience	3
PSB 4434	Neurochemistry, Pharmacology and Behavior	3
PSB 4504	Developmental Psychobiology	3
PSB 4654	Chemical Senses and Behavior	3
PSB 4810	Neurobiology of Learning and Memory	3
PSB 4823	Principles of Integrative Physiological Psychology	3
WIS 3553C	Introduction to Conservation Genetics	4
WIS 4203C	Landscape Ecology and Conservation	3
WIS 4443C	Wetland Wildlife Ecology	4
WIS 4501	Introduction to Wildlife Population Ecology	3
WIS 4547C	Avian Field Techniques	2
WIS 4554	Conservation Biology	3
WIS 4601C	Quantitative Wildlife Ecology	3
WIS 4945C	Wildlife Techniques	4
ZOO 3513C	Animal Behavior	4
ZOO 3603C	Evolutionary Developmental Biology	4
ZOO 3713C	Functional Vertebrate Anatomy	4
ZOO 4205C	Invertebrate Biodiversity	4
ZOO 4232	Human Parasitology	3
ZOO 4307C	Vertebrate Biodiversity	4
ZOO 4403C	Marine Biology	4
ZOO 4472C	Avian Biology	4
ZOO 4926	Special Topics in Zoology	1-4

Academic Learning Compact

Biology is the study of the many diverse forms, processes and systems of life. These studies range across all levels of the biological hierarchy, from the simplest to the most complex life forms, across all environments on the earth and across recent and evolutionary time that interconnects ancestors to their descendants.

To understand this vast diversity, the field of biology correspondingly relies on integrative and comparative approaches for the resolution of the general processes, principles and unifying themes that govern living systems. Biology is therefore very interdisciplinary and biologists rely on knowledge from the physical sciences and mathematics, as well as from across the disciplines and subdisciplines of biology for advances and breakthroughs.

The biology major is administered jointly by the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences.

Before Graduating Students Must

- Achieve a passing score for all content subsections of the Major Field Test for Biology. Content subscore areas are molecular biology and genetics, organismal biology, evolution, ecology and population biology.
- Achieve a passing score on the analytical skills assessment indicator of the Major Field Test for Biology.
- Achieve a passing score on the bioethics module quiz in BSC 4936. The content of the module and quiz are reviewed and approved by a faculty committee.
- Achieve a passing score on the scientific literacy paper assignment given in BSC 4936. This paper is graded using a faculty-developed rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AGR 3303 or PCB 3063 or PCB 4522	R	R		R
ANS 3319C or BOT 3503 or HOS 4304 or PCB 3713C or PCB 4723C	R	R		R
BSC 1920	I		I	I
BSC 2010	I	I	I	
BSC 2011	I	I	I	
BSC 4936	A	A	A	A
MCB 3020 and MCB 3020L, or PCB 3134 or PCB 4674	R	R		R

Assessment Types

- Major field test for biology
- Bioethics module
- Scientific literacy paper

Botany Minor

The Botany minor provides a solid foundation in the biology of plants, from the molecular to the organismal level, and their role in larger ecosystems.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** Email (biouc-l@lists.ufl.edu)
- **Related Botany Programs**

Students pursuing majors in biology, entomology, or wildlife ecology and conservation are not eligible to receive the minor in botany.

To be eligible for many upper-level botany courses, students must have completed:

Code	Title	Credits
BSC 2010	Integrated Principles of Biology 1	3-4
& 2010L	and Integrated Principles of Biology Laboratory 1	
or BOT 2010C	Introductory Botany	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
or BOT 2011C	Plant Diversity	

Required Courses

Code	Title	Credits
Select 15 credits: [1, 2]		15
Any 3000/4000/5000-level BOT course		
PCB 3023	Essential Cell Biology	
PCB 3601C	Plant Ecology	
PCB 4043C	General Ecology	
Total Credits		15

1 Up to six credits may come from BOT 2010C, BOT 2011C, BOT 2710C, BOT 2800C

2 No more than three credits may be individual work (BOT 4905, BOT 4911).

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Related Botany Programs

- Bachelor of Science in Botany, CALS (p. 96)
- Bachelor of Science in Botany, CLAS (p. 598)

Botany | CLAS

The botany curriculum provides a broad background in the biology of plants, from the molecular to the organismic level. Students who major in botany will take courses in ecology, genetics, physiology, taxonomy, evolution, cells and tissues, molecular biology, and biodiversity of plants.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Specializations:** General Botany (p. 605) | Botanical Research (p. 600)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Botany Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Small classes are taught by faculty who have a commitment to undergraduate education. Students participate in mentored research, assisting faculty with research projects on campus and abroad. The major prepares students for careers in industry and government agencies, for graduate and professional schools, and for teaching jobs in high schools.

General Botany

For students who may not intend to pursue a graduate degree but are interested in a career in plant biology. This specialization provides some flexibility in tailoring the courses needed in order to pursue specific interests. Students are encouraged to consult with an advisor and botany faculty member when deciding on which courses to take.

Botanical Research

For students who intend to pursue a graduate degree, and requires research with a faculty member. This specialization provides the coursework background typically required by botany graduate programs. Students are encouraged to consult with an advisor and biology faculty member when deciding on which courses to take.

Coursework for the Major

Required coursework is dependent upon the specialization. Coursework for each specialization can be found below under Critical Tracking and Model Semester Plan.

Relevant Minors and/or Certificates

Students majoring in botany can minor in most other disciplines, and this is a good way to organize students' electives around areas of interest. Note that botany majors cannot minor in biology, nor can biology majors minor in botany (the curricula for the botany and biology majors are too similar).

UFTeach Program

There is a severe shortage of qualified secondary science teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a botany advisor or the UFTeach advisor. UFTeach students complete the UFTeach minor in science teaching with their B.S. in botany and have the coursework and preparation for professional teacher certification in Florida when they graduate.

Research

Botany majors are strongly encouraged to participate in research, and research is required for the Botanical Research specialization. Research experience is valuable on many levels: it diversifies the college experience; it teaches students how scientists apply the knowledge gained in the classroom to real world questions; it provides the opportunity to work with and get to know researchers who are the best in their field; it introduces students to cutting edge scientific questions and techniques; it can enhance a student's resume/CV when applying to graduate or professional school; and, finally, it is essential in helping students determine if science is a good career choice.

CLAS biology, botany, and zoology majors may participate in research for course credit, as a scholar (e.g., University Scholar, Science for Life Scholar, Beckman Scholar), as a volunteer, or, in rare cases, as a paid research assistant. Students who plan to enroll for course credit must contact potential research mentors, develop a project, and turn in the required application and proposal no later than the week of drop/add. If the window is missed, students should still contact potential research mentors to discuss upcoming opportunities.
More Info (https://biology.ufl.edu/undergraduates/research)

Related Botany Programs

- Combined Degree (p. 1400)
- Bachelor of Science in Botany, CALS (p. 96)
- Botany minor (p. 597)

Academic Learning Compact

The botany major is offered by both the College of Liberal Arts and Sciences and the College of Agricultural and Life Sciences. This major provides a foundation in the life sciences with emphasis on plant systems. Students will learn the diversity of life, the structure of organisms and ecosystems and how they function (i.e., the acquisition, flow, organization and uses of information, energy and nutrients in living systems). Students will learn the scientific method and how it facilitates the discovery of new knowledge in botany and biology, including how to critically evaluate hypotheses and conclusions.

Before Graduating Students Must

- Achieve acceptable performance in all required botany courses.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

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Courses	SLO 1	SLO 2	SLO 3	SLO 4
BOT 2011C	R	R		I
BOT 2710	R	R		R
BOT 3503 and BOT 3503L	R/A	R/A		R/A
BSC 2010	I	I	I	
BSC 2011	I	I		
PCB 3601C	R/A	R/A	R/A	R/A
PCB 4043C	R/A	R/A	R/A	R/A

Assessment Types

- Major field test for biology
- Bioethics quiz
- Scientific paper

Botany | Botanical Research

The botany curriculum provides a broad background in the biology of plants, from the molecular to the organismic level. Students who major in botany will take courses in ecology, genetics, physiology, taxonomy, evolution, cells and tissues, molecular biology, and biodiversity of plants.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Specializations:** General Botany (p. 605) | Botanical Research (p. 600)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Botany Programs**

To graduate with this major, students must complete all university, college, and major requirements.

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General Botany

For students who may not intend to pursue a graduate degree but are interested in a career in plant biology. This specialization provides some flexibility in tailoring the courses needed in order to pursue specific interests. Students are encouraged to consult with an advisor and botany faculty member when deciding on which courses to take.

Botanical Research

For students who intend to pursue a graduate degree, and requires research with a faculty member. This specialization provides the coursework background typically required by botany graduate programs. Students are encouraged to consult with an advisor and biology faculty member when deciding on which courses to take.

Coursework for the Major

Required coursework is dependent upon the specialization. Coursework for each specialization can be found below under Critical Tracking and Model Semester Plan.

Relevant Minors and/or Certificates

Students majoring in botany can minor in most other disciplines, and this is a good way to organize students' electives around areas of interest. Note that botany majors cannot minor in biology, nor can biology majors minor in botany (the curricula for the botany and biology majors are too similar).

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Botany majors are strongly encouraged to participate in research, and research is required for the Botanical Research specialization. Research experience is valuable on many levels: it diversifies the college experience; it teaches students how scientists apply the knowledge gained in the classroom to real world questions; it provides the opportunity to work with and get to know researchers who are the best in their field; it introduces students to cutting edge scientific questions and techniques; it can enhance a student's resume/CV when applying to graduate or professional school; and, finally, it is essential in helping students determine if science is a good career choice.

CLAS biology, botany, and zoology majors may participate in research for course credit, as a scholar (e.g., University Scholar, Science for Life Scholar, Beckman Scholar), as a volunteer, or, in rare cases, as a paid research assistant. Students who plan to enroll for course credit must contact potential research mentors, develop a project, and turn in the required application and proposal no later than the week of drop/add. If the window is missed, students should still contact potential research mentors to discuss upcoming opportunities.

More Info (https://biology.ufl.edu/undergraduates/research)

Related Botany Programs

- Combined Degree (p. 1400)
- Bachelor of Science in Botany, CALS (p. 96)
- Botany minor (p. 597)

Botanical Research

This option provides a strong background in the basic sciences and research, and is intended for students who plan to attend graduate school. Minimum grades of C are required in the foundation and botany major requirements.

Code	Title	Credits
Required Foundation Courses		
Select one:		4-7
BOT 2010C	Introductory Botany	
& BOT 2011C	and Plant Diversity (preferred) [1]	
BSC 2010	Integrated Principles of Biology 1	
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	
Select one option:		8-10
Option A		
CHM 2210	Organic Chemistry 1	
& CHM 2211	and Organic Chemistry 2	
CHM 2211L	Organic Chemistry Laboratory	
Option B		
CHM 3217	Organic Chemistry/Biochemistry 1	
& CHM 3218	and Organic Chemistry/Biochemistry 2	
CHM 2211L	Organic Chemistry Laboratory	
MAC 2311	Analytic Geometry and Calculus 1	4
Select one:		3
STA 2023	Introduction to Statistics 1	
COP 2800	Computer Programming Using JAVA (or equivalent)	
COP 3275	Computer Programming Using C (or equivalent)	
BSC 2891	Python Programming for Biology	
Select one option:		8-10
Option A		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option B		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Required Courses for the Botanical Research Specialization		
AGR 3303	Genetics	3-4
or PCB 3063	Genetics	
PCB 4674	Evolution	4
BOT 2710C	Practical Plant Taxonomy	3
BOT 3503	Physiology and Molecular Biology of Plants	5
& 3503L	and Physiology and Molecular Biology of Plants Laboratory	
BOT 4911	Undergraduate Research in Botany	3
BSC 3911	Entering Research in Biology [2]	1
BSC 4936	Critical Analysis of Biological Research	2
Ecology and Florida Biodiversity		

Select two:		6-8
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	
BSC 3307C	Climate Change Biology	
Cells and Tissues		
Select one:		3-4
BOT 4935/5225C	Special Topics (Plant anatomy)	
PCB 3023	Essential Cell Biology	
BCH 4024	Introduction to Biochemistry and Molecular Biology	
Biodiversity Breadth		
Select one:		3-4
BOT 2011C	Plant Diversity [1]	
BOT 4650	Plant Symbiosis	
PCB 4460	Biodiversity and Ecology Field Immersion	
ZOO 4205C	Invertebrate Biodiversity	
ZOO 4307C	Vertebrate Biodiversity	
ZOO 4472C	Avian Biology	
ZOO 4926	Special Topics in Zoology (Mammalogy)	
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	
WIS 4934	Topics in Wildlife Ecology and Conservation (Mammalogy)	
PLP 3002C	Fundamentals of Plant Pathology	
PLP 4653C	Basic Fungal Biology	
MCB 2000 & 2000L	Microbiology and Microbiology Laboratory	
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	
Total Credits		72-84

1 Students who choose BOT 2011C to fulfill the foundation requirements may not use BOT 2011C to fulfill the biodiversity breadth requirements for the major.

2 Must be taken concurrently with BOT 4911.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260301&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses, including lab: BSC 2010/BSC 2010L or BOT 2010C, BSC 2011/BSC 2011L or BOT 2011C, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, including labs
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, including labs, with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, including labs, with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 5 critical-tracking courses, including labs, with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

CHM 2211, CHM 2211L, PHY 2054, PHY 2054L, PHY 2049, and PHY 2049L count towards 3000 level or above electives outside of the major. COP 3275 may also count towards the requirement if taken.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
BSC 1920	First Year Introduction: Biology at UF (recommended elective)	1
	Credits	15
Semester Two		
Select one:		3-4
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences)	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Gen Ed Composition; Writing Requirement		3
Elective		2
	Credits	15-16
Semester Three		
Select one:		4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences)	
CHM 2210	Organic Chemistry 1 (Gen Ed Physical Sciences)	3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		6
	Credits	16
Semester Four		
CHM 2211	Organic Chemistry 2	5
& 2211L	and Organic Chemistry Laboratory	
PHY 2053	Physics 1	5
& 2053L	and Laboratory for Physics 1 (Gen Ed Physical Sciences)	
Select one:		3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	
COP 2800	Computer Programming Using JAVA (or equivalent)	
COP 3275	Computer Programming Using C (or equivalent; Gen Ed Mathematics)	
BSC 2891	Python Programming for Biology	

Elective or Gen Ed Mathematics [1]		3
	Credits	16
Semester Five		
Select one:		3-4
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	
BSC 3307C	Climate Change Biology	
PCB 4674	Evolution	4
PHY 2054	Physics 2	5
& 2054L	and Laboratory for Physics 2	
Gen Ed Humanities		3
	Credits	15-16
Semester Six		
BOT 2710C	Practical Plant Taxonomy	3
Select one:		3-4
BOT 4935/5225C	Special Topics (Plant Anatomy)	
PCB 3023	Essential Cell Biology	
BCH 4024	Introduction to Biochemistry and Molecular Biology	
Electives		4
Foreign language		5
	Credits	15-16
Semester Seven		
AGR 3303	Genetics	3-4
or PCB 3063	or Genetics	
BOT 4911	Undergraduate Research in Botany	1-4
& BSC 3911	and Entering Research in Biology	
Select one:		3-4
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	
BSC 3307C	Climate Change Biology	
Foreign language		5
	Credits	12-17
Semester Eight		
BOT 3503	Physiology and Molecular Biology of Plants	5
& 3503L	and Physiology and Molecular Biology of Plants Laboratory	
BSC 4936	Critical Analysis of Biological Research	2
Biodiversity breadth course		3-4
Elective		3
	Credits	13-14
	Total Credits	117-126

[1] Gen Ed Mathematics if COP 2800 or BSC 2891 taken for computational requirement.

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Before Graduating Students Must

- Achieve acceptable performance in all required botany courses.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

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Curriculum Map

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Courses	SLO 1	SLO 2	SLO 3	SLO 4
BOT 2011C	R	R		I
BOT 2710	R	R		R
BOT 3503 and BOT 3503L	R/A	R/A		R/A
BSC 2010	I	I	I	
BSC 2011	I	I		
PCB 3601C	R/A	R/A	R/A	R/A
PCB 4043C	R/A	R/A	R/A	R/A

Assessment Types

- Major field test for biology
- Bioethics quiz
- Scientific paper

Botany | General Botany

The botany curriculum provides a broad background in the biology of plants, from the molecular to the organismic level. Students who major in botany will take courses in ecology, genetics, physiology, taxonomy, evolution, cells and tissues, molecular biology, and biodiversity of plants.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Specializations:** General Botany (p. 605) | Botanical Research (p. 600)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Botany Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Small classes are taught by faculty who have a commitment to undergraduate education. Students participate in mentored research, assisting faculty with research projects on campus and abroad. The major prepares students for careers in industry and government agencies, for graduate and professional schools, and for teaching jobs in high schools.

General Botany

For students who may not intend to pursue a graduate degree but are interested in a career in plant biology. This specialization provides some flexibility in tailoring the courses needed in order to pursue specific interests. Students are encouraged to consult with an advisor and botany faculty member when deciding on which courses to take.

Botanical Research

For students who intend to pursue a graduate degree, and requires research with a faculty member. This specialization provides the coursework background typically required by botany graduate programs. Students are encouraged to consult with an advisor and biology faculty member when deciding on which courses to take.

Coursework for the Major

Required coursework is dependent upon the specialization. Coursework for each specialization can be found below under Critical Tracking and Model Semester Plan.

Relevant Minors and/or Certificates

Students majoring in botany can minor in most other disciplines, and this is a good way to organize students' electives around areas of interest. Note that botany majors cannot minor in biology, nor can biology majors minor in botany (the curricula for the botany and biology majors are too similar).

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Related Botany Programs

- Combined Degree (p. 1400)
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- Botany minor (p. 597)

General Botany

This option is intended for students who do not plan to attend graduate or professional school, but are planning a career in government, public service, or secondary education. A student must achieve a minimum grade of C in all required courses for the major.

Code	Title	Credits
Required Foundation Courses		
Select one:		4-7
BOT 2010C & BOT 2011C	Introductory Botany and Plant Diversity (preferred) [1]	
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	4
CHM 2200 & 2200L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	4
MAC 1147 or MAC 2311	Precalculus Algebra and Trigonometry Analytic Geometry and Calculus 1	4
Select one:		3
STA 2023	Introduction to Statistics 1	
COP 2800	Computer Programming Using JAVA (or equivalent)	
COP 3275	Computer Programming Using C (or equivalent)	
BSC 2891	Python Programming for Biology	
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1	4

Required Courses for the General Botany Specialization		
AGR 3303	Genetics	3-4
or PCB 3063	Genetics	
PCB 4674	Evolution	4
BOT 2710C	Practical Plant Taxonomy	3
BOT 3503	Physiology and Molecular Biology of Plants	5
& 3503L	and Physiology and Molecular Biology of Plants Laboratory	
BSC 4936	Critical Analysis of Biological Research	2
Ecology and Florida Biodiversity		
Select two:		6-8
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	
BSC 3307C	Climate Change Biology	
Cells and Tissues		
BOT 4935/5225C	Special Topics (Plant Anatomy)	3-4
or PCB 3023	Essential Cell Biology	
Biodiversity Breadth		
Select one:		3-4
BOT 2011C	Plant Diversity [1]	
BOT 4650	Plant Symbiosis	
PCB 4460	Biodiversity and Ecology Field Immersion	
ZOO 4307C	Vertebrate Biodiversity	
ZOO 4472C	Avian Biology	
ZOO 4926	Special Topics in Zoology (Mammalogy)	
ZOO 4205C	Invertebrate Biodiversity	
ENY 3005	Principles of Entomology	
& 3005L	and Principles of Entomology Laboratory	
WIS 4934	Topics in Wildlife Ecology and Conservation (Mammalogy)	
PLP 3002C	Fundamentals of Plant Pathology	
PLP 4653C	Basic Fungal Biology	
MCB 2000	Microbiology	
& 2000L	and Microbiology Laboratory	
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms	
Select two from any of the above courses or other approved electives		4-8
Total Credits		64-76

[1] Students who choose BOT 2011C to fulfill the foundation requirements may not use BOT 2011C to fulfill the biodiversity breadth requirements for the major.

Recommended and Approved Electives

Some courses may have prerequisites.

Code	Title	Credits
AGG 3501	Environment, Food and Society	3
AGR 4304	Plant Chromosomes and Genomes	3
AGR 4320	Plant Breeding	3
AGR 4512	Physiology and Ecology of Crops	3
ALS 4163	Challenges in Plant Resource Protection	3
BCH 3023	Elementary Organic and Biological Chemistry (online)	3
BCH 5045	Grad Survey Biochem (online)	4
BOT 2800C	Plants in Human Affairs	3
BOT 4053	Practical Experience in Teaching Botany	2
BOT 4621	Plant Geography	2
BOT 4935	Special Topics	2-4
BOT 4935/5305	Special Topics (Paleobotany)	3
BSC 2862	Global Change Ecology and Sustainability	3
BSC 3402	Theory and Practice in the Biological Sciences	2
BSC 4434C	Introduction to Bioinformatics	3
ENY 4161	Insect Classification	3
FNR 3131C	Dendrology/Forest Plants	3

FOR 2662	Forests for the Future	3
FOR 3004	Forests, Conservation and People	3
FOR 3153C	Forest Ecology	3
FOR 3342C	Tree Biology	3
FOR 4060	Global Forests	3
HOS 3305	Introduction to Plant Molecular Biology	3
HOS 4304	Horticultural Physiology	3
HOS 4313C	Laboratory Methods in Plant Molecular Biology	2
HOS 4341	Advanced Horticultural Physiology	3
MCB 4304	Genetics of Microorganisms	3
MCB 4320C	The Microbiome	3
MCB 4503	General Virology	3
MCB 4652	Environmental Microbiology	3
ORH 3513C	Environmental Plant Identification and Use	3
ORH 3773	Public Gardens	2
ORH 3815C	Florida Native Landscaping	3
PCB 4553	Population Genetics	4
PCB 5338	Princpls Ecosys Ecol	3
PLP 2060	Fungus among Us: Mushrooms, Molds and Civilization	3
PLP 3230	Survey of Plant Pathogens	3
PLS 2003C	Plants That Feed the World	3
PLS 3223 & 3223L	Plant Propagation and Plant Propagation Laboratory	3
PLS 4601C	Principles of Weed Science	3

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260301&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 5 critical-tracking courses, including lab: BSC 2010/BSC 2010L or BOT 2010C, BSC 2011/BSC 2011L or BOT 2011C, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 1147 or MAC 2311 or STA 2023
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, including labs
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, including labs, with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, including labs, with 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs, with 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

CHM 2211, CHM 2211L, PHY 2054, PHY 2054L, PHY 2049, and PHY 2049L may count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		4
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	
BOT 2010C	Introductory Botany (**Critical Tracking**; Gen Ed Biological Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		4
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
BSC 1920	First Year Introduction: Biology at UF (recommended elective)	1
	Credits	15
Semester Two		
Select one:		4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
BOT 2011C	Plant Diversity (**Critical Tracking**; Gen Ed Biological Sciences)	
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Three		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Foreign language		5
	Credits	15
Semester Four		
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1 (Gen Ed Social and Behavioral Sciences)	4
Select one:		3
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	
COP 2800	Computer Programming Using JAVA (or equivalent)	
COP 3275	Computer Programming Using C (or equivalent; Gen Ed Mathematics)	
BSC 2891	Python Programming for Biology	
Gen Ed Social and Behavioral Sciences		3
Foreign language		5
	Credits	15
Semester Five		
CHM 2200 & 2200L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	4
Select one:		3-4
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	

BSC 3307C	Climate Change Biology	
PCB 4674	Evolution	4
Gen Ed Humanities		3
	Credits	14-15
Semester Six		
AGR 3303	Genetics	3-4
or PCB 3063	or Genetics	
BOT 2710C	Practical Plant Taxonomy	3
BOT 4935/5225C	Special Topics (Plant Anatomy)	3-4
or PCB 3023	or Essential Cell Biology	
Gen Ed Mathematics [1]		3
Elective		3
	Credits	15-17
Semester Seven		
BOT 3503	Physiology and Molecular Biology of Plants	5
& 3503L	and Physiology and Molecular Biology of Plants Laboratory	
Select one:		3-4
PCB 4043C	General Ecology	
PCB 3601C	Plant Ecology	
BOT 3151C	Local Flora of North Florida	
BSC 3307C	Climate Change Biology	
Approved botany electives		4
Electives		4
	Credits	16-17
Semester Eight		
BSC 4936	Critical Analysis of Biological Research	2
Biodiversity breadth courses		4
Electives		10
	Credits	16
	Total Credits	120

[1] Gen Ed Mathematics; if COP 2800 or BSC 2891 taken for computational requirement; or elective.

Academic Learning Compact

The botany major is offered by both the College of Liberal Arts and Sciences and the College of Agricultural and Life Sciences. This major provides a foundation in the life sciences with emphasis on plant systems. Students will learn the diversity of life, the structure of organisms and ecosystems and how they function (i.e., the acquisition, flow, organization and uses of information, energy and nutrients in living systems). Students will learn the scientific method and how it facilitates the discovery of new knowledge in botany and biology, including how to critically evaluate hypotheses and conclusions.

Before Graduating Students Must

- Achieve acceptable performance in all required botany courses.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
BOT 2011C	R	R		I
BOT 2710	R	R		R
BOT 3503 and BOT 3503L	R/A	R/A		R/A
BSC 2010	I	I	I	
BSC 2011	I	I		
PCB 3601C	R/A	R/A	R/A	R/A
PCB 4043C	R/A	R/A	R/A	R/A

Assessment Types

- Major field test for biology
- Bioethics quiz
- Scientific paper

Chemistry Minor

This minor provides a solid foundation in general, organic, and analytical chemistry, while enhancing critical thinking and analytical skills.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 20-26 | Completed with minimum grades of C
- **Related Chemistry Programs**

At least nine chemistry credits applied toward the minor must be completed at UF. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward other majors or minors.

Students pursuing majors in biology-biotechnology, botany or chemical engineering are not eligible to receive this minor.

Required Courses

Code	Title	Credits
General Chemistry Sequence		
Select one option: [1]		5-8
Option A		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	
Option B		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	
CHM 2051	Honors General Chemistry 2	
CHM 2046L	General Chemistry 2 Laboratory	
Option C		
CHM 2095	Chemistry for Engineers 1	
CHM 2045L	General Chemistry 1 Laboratory	
CHM 2096	Chemistry for Engineers 2	
CHM 2046L	General Chemistry 2 Laboratory	
Option D		
CHM 2047 & 2047L	One-Semester General Chemistry and One-Semester General Chemistry Laboratory	
Analytical Chemistry Sequence		
CHM 3120 & 3120L	Introduction to Analytical Chemistry and Analytical Chemistry Laboratory	4
Organic Chemistry Sequence		
Select one option:		8-10
Option A		
CHM 2210	Organic Chemistry 1	

CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	
Option B		
CHM 3217	Organic Chemistry/Biochemistry 1	
CHM 3218	Organic Chemistry/Biochemistry 2	
CHM 2211L	Organic Chemistry Laboratory	
Select one:		3-4
CHM 3218	Organic Chemistry/Biochemistry 2 [2]	
CHM 3400	Physical Chemistry for the Biosciences	
CHM 3610	Inorganic Chemistry	
CHM 4000-level course [3]		
Total Credits		20-26

1 CHM 2054L may be substituted for CHM 2045L/CHM 2046L or CHM 2047L.

2 If organic chemistry sequence is met with CHM 2210/CHM 2211/CHM 2211L.

3 Except CHM 4905, CHM 4910, or CHM 4940.

Related Chemistry Programs

- Bachelor of Science in Chemistry (p. 612)
- Bachelor of Arts in Interdisciplinary Studies, Biochemistry and Molecular Biology (p.)

Chemistry | Biochemistry

Chemistry is often called the *central science* because of the pivotal role it plays in the biological and physical sciences, as well as in engineering, agriculture, medicine, and allied health disciplines. Bachelor's degree chemists choose from diverse paths for their short-term and lifetime careers, including graduate study in a variety of programs, rewarding employment in industry or government laboratories, professional or law school, or much-needed teaching in high schools.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Specializations:** Biochemistry (p. 615) | General (p. 622)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Chemistry Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students can choose the standard chemistry program, which is comparable to that offered in any major university, or the biochemistry program, which is designed to give more flexibility to students wanting to pursue courses with biological focus. The department encourages students in either specialization to include undergraduate research with one of the department's internationally recognized faculty as a component of the undergraduate experience. Undergraduate research will frequently result in journal publications and/or presentations at scientific meetings.

Coursework for the Major

For either specialization (standard chemistry or biochemistry), all required courses must be completed within two attempts with minimum grades of C. Any foreign language acceptable to the college can be taken with this minimum program and language courses can be taken S-U. ENC 3254 is suggested to fulfill part of the university writing requirement.

Required Coursework

Required coursework will depend upon the program chosen. Coursework for each specialization can be found below under Critical Tracking and Model Semester Plan.

Recommended Coursework

A.C.S. Certified Program: To receive American Chemical Society certification, a student must complete the standard chemistry major. In addition, credit must be earned for CHM 3610L and CHM 3218 plus an additional two credits of advanced work in chemistry courses such as the following:

Code	Title	Credits
CHM 4034	Advanced Biochemistry and Chemical Biology	4
CHM 4272	The Organic Chemistry of Polymers	2
CHM 4300L	Laboratory in Biochemistry and Molecular Biology	2
CHM 4304	Chemical Aspects of Cellular Control	3
CHM 4910	Undergraduate Research	3

If CHM 4910 is used, a thesis must be written.

Course Details

Introduction to General Chemistry

CHM 1025, a two-credit course, is offered for students who need to strengthen their understanding of basic concepts of atomic structure and stoichiometry before beginning the general chemistry sequence:

Code	Title	Credits
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	

A placement exam is offered via ONE.UF (https://one.uf.edu) and the score achieved determines whether CHM 1025 or CHM 2045 is the appropriate first course in chemistry.

General Chemistry

The following general chemistry offerings are available:

- CHM 1030/CHM 1031 is a terminal sequence for non-science students that presents chemistry from a medical and nursing perspective.
- CHM 1020 is a terminal general education course that explores chemistry in terms of society.
- CHM 2045/CHM 2045L and CHM 2046/CHM 2046L is the standard general chemistry sequence and is an acceptable preprofessional requirement for many science and engineering majors. Students are presumed to have good backgrounds in high school chemistry and mathematics (through MAC 1147) and are expected to pass the placement exam offered via ONE.UF (https://one.uf.edu) **before** registering for CHM 2045.
- CHM 2095/CHM 2045L and CHM 2096/CHM 2046L is an alternative general chemistry sequence especially designed for engineering majors.
- CHM 2047/CHM 2047L is a one-semester program for entering first-year students with strong backgrounds in chemistry, normally reflected by high AP or IB chemistry test scores. This program enables students to move more quickly into advanced work.
- CHM 2051 is offered as an alternative to CHM 2046 for students who have done particularly well in CHM 2045.
- CHM 2054L is a 2-credit, inquiry-based lab focusing on major concepts in chemistry and their application to quantitative life-sciences research. This course is equivalent to CHM 2045L and CHM 2046L or CHM 2047L.

Placement

For placement into the appropriate first course in chemistry, please refer to the Academic Advising section or consult a chemistry advisor. All students should complete their general chemistry studies at the same institution.
More Info (p. 1414)

Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified high school chemistry teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a chemistry advisor about the UFTeach program. UFTeach students complete the UFTeach minor in science teaching with their B.S. in chemistry and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (https://education.ufl.edu/uf-teach)

Related Chemistry Programs

- Bachelor of Arts in Interdisciplinary Studies, Biochemistry and Molecular Biology (p. 799)
- Chemistry minor (p. 611)

Academic Learning Compact

Chemistry is the study of matter: the structure and properties of matter, the transformations from one form of matter to another and the energy transformations associated with these transformations.

Before Graduating Students Must

- Achieve at least 50% on the Diagnostic of Undergraduate Chemistry Knowledge (DUCK) exam.
- Obtain minimum grades of C in laboratory courses:

Code	Title	Credits
CHM 2211	Organic Chemistry 2	3
CHM 3120L	Analytical Chemistry Laboratory	1
CHM 4130L	Instrumental Analysis Laboratory	2
CHM 4411L	Physical Chemistry Laboratory	2
or CHM 4413L	Biophysical Chemistry Laboratory	

- Complete requirements for the baccalaureate degree, as determined by the chemistry faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1.
   - **Standard Chemistry**
     Explain and apply facts, theories and concepts in
     i. physical
     ii. organic
     iii. inorganic
     iv. analytical chemistry
   - **Biochemistry**
     Explain and apply facts, theories and concepts in
     i. physical
     ii. organic
     iii. inorganic
     iv. analytical chemistry
     v. biochemistry
2.
   - **Standard Chemistry**
     Demonstrate and safely apply laboratory skills in
     i. synthetic
     ii. quantitative
     iii. instrumental methods as scientific approaches to gathering and verifying knowledge
   - **Biochemistry**
     Apply laboratory skills in
     i. synthetic
     ii. quantitative
     iii. instrumental
     iv. biochemical methods as scientific approaches to gathering and verifying knowledge

Critical Thinking

3. **Standard Chemistry and Biochemistry**
   Interpret, evaluate, explain and critically assess theories and experimental results in chemistry or biochemistry.

Communication

4. **Standard Chemistry and Biochemistry**
   Collect, analyze and articulate results clearly and effectively in both oral and written formats.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Standard Chemistry

Courses	SLO 1-A	SLO 1-B	SLO 1-C	SLO 1-D	SLO 2-A	SLO 2-B	SLO 2-C	SLO 2-D	SLO 3	SLO 4
CHM 2045 and CHM 2046	I		I	I						

CHM 2211L						I, A					I
CHM 2212 and CHM 2213		I									
CHM 3120 and CHM 4130				R							
CHM 3120L							I, A	I			I
CHM 3610			R								
CHM 4130L							R	R, A		I	R, A
CHM 4411 and CHM 4412	R										
CHM 4411L							R	R		R	R, A
DUCK Exam	A	A	A	A							

Biochemistry

Courses	SLO 1-A	SLO 1-B	SLO 1-C	SLO 1-D	SLO 1-E	SLO 2-A	SLO 2-B	SLO 2-C	SLO 2-D	SLO 3	SLO 4
CHM 2045 and CHM 2046	I		I	I							
CHM 2211L						I, A					I
CHM 2212 and CHM 2213		I									
CHM 3120				R							
CHM 3120L							I, A	I			I
CHM 3218					I						
CHM 3400	R										
CHM 3610			R								
CHM 4300L									I		
CHM 4413L							R	R		R	R, A
DUCK Exam	A	A	A	A							

Assessment Types for Both Specializations

- Oral tests or reports
- Written reports
- Lab practicals

Chemistry | Biochemistry

Chemistry is often called the *central science* because of the pivotal role it plays in the biological and physical sciences, as well as in engineering, agriculture, medicine, and allied health disciplines. Bachelor's degree chemists choose from diverse paths for their short-term and lifetime careers, including graduate study in a variety of programs, rewarding employment in industry or government laboratories, professional or law school, or much-needed teaching in high schools.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Specializations:** Biochemistry (p. 615) | General (p. 622)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Chemistry Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students can choose the standard chemistry program, which is comparable to that offered in any major university, or the biochemistry program, which is designed to give more flexibility to students wanting to pursue courses with biological focus. The department encourages students in either specialization to include undergraduate research with one of the department's internationally recognized faculty as a component of the undergraduate experience. Undergraduate research will frequently result in journal publications and/or presentations at scientific meetings.

Coursework for the Major

For either specialization (standard chemistry or biochemistry), all required courses must be completed within two attempts with minimum grades of C. Any foreign language acceptable to the college can be taken with this minimum program and language courses can be taken S-U. ENC 3254 is suggested to fulfill part of the university writing requirement.

Required Coursework

Required coursework will depend upon the program chosen. Coursework for each specialization can be found below under Critical Tracking and Model Semester Plan.

Course Details

Introduction to General Chemistry

CHM 1025, a two-credit course, is offered for students who need to strengthen their understanding of basic concepts of atomic structure and stoichiometry before beginning the general chemistry sequence:

Code	Title	Credits
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	

A placement exam is offered via ONE.UF (https://one.uf.edu) and the score achieved determines whether CHM 1025 or CHM 2045 is the appropriate first course in chemistry.

General Chemistry

The following general chemistry offerings are available:

- CHM 1030/CHM 1031 is a terminal sequence for non-science students that presents chemistry from a medical and nursing perspective.
- CHM 1020 is a terminal general education course that explores chemistry in terms of society.
- CHM 2045/CHM 2045L and CHM 2046/CHM 2046L is the standard general chemistry sequence and is an acceptable preprofessional requirement for many science and engineering majors. Students are presumed to have good backgrounds in high school chemistry and mathematics (through MAC 1147) and are expected to pass the placement exam offered via ONE.UF (https://one.uf.edu) **before** registering for CHM 2045.
- CHM 2095/CHM 2045L and CHM 2096/CHM 2046L is an alternative general chemistry sequence especially designed for engineering majors.
- CHM 2047/CHM 2047L is a one-semester program for entering first-year students with strong backgrounds in chemistry, normally reflected by high AP or IB chemistry test scores. This program enables students to move more quickly into advanced work.
- CHM 2051 is offered as an alternative to CHM 2046 for students who have done particularly well in CHM 2045.
- CHM 2054L is a 2-credit, inquiry-based lab focusing on major concepts in chemistry and their application to quantitative life-sciences research. This course is equivalent to CHM 2045L and CHM 2046L or CHM 2047L.

Placement

For placement into the appropriate first course in chemistry, please refer to the Academic Advising section or consult a chemistry advisor. All students should complete their general chemistry studies at the same institution.
More Info (p. 1414)

Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified high school chemistry teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a chemistry advisor about the UFTeach program. UFTeach students complete the UFTeach minor in science teaching with their B.S. in chemistry and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (https://education.ufl.edu/uf-teach)

Related Chemistry Programs

- Bachelor of Arts in Interdisciplinary Studies, Biochemistry and Molecular Biology (p. 799)
- Chemistry minor (p. 611)

Biochemistry

The chemistry major with biochemistry specialization requires 61-69 credits, including the following coursework. With approval, this may include equivalent transfer coursework.

Code	Title	Credits
Required Foundation Coursework		
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
Select one option:		5-8
Option A [1]		
CHM 2045	General Chemistry 1	
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	
& 2046L	and General Chemistry 2 Laboratory	
Option B		
CHM 2045	General Chemistry 1	
& 2045L	and General Chemistry 1 Laboratory	
CHM 2051	Honors General Chemistry 2	
& CHM 2046L	and General Chemistry 2 Laboratory	
Option C		
CHM 2047	One-Semester General Chemistry	
& 2047L	and One-Semester General Chemistry Laboratory [1]	
CHM 3120	Introduction to Analytical Chemistry	4
& 3120L	and Analytical Chemistry Laboratory	
MAC 2311	Analytic Geometry and Calculus 1	8
& MAC 2312	and Analytic Geometry and Calculus 2	
Select one option:		8-10
Option A		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option B		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Required Core Coursework		
Select one:		4-6
CHM 2212	Organic Chemistry 1 for Majors	
& CHM 2213	and Organic Chemistry 2 for Majors	
CHM 2210	Organic Chemistry 1	
& CHM 2211	and Organic Chemistry 2	
CHM 3217	Organic Chemistry/Biochemistry 1	
CHM 2211L	Organic Chemistry Laboratory	2
CHM 3218	Organic Chemistry/Biochemistry 2	4
CHM 3610	Inorganic Chemistry	3
CHM 3400	Physical Chemistry for the Biosciences	5
& CHM 4413L	and Biophysical Chemistry Laboratory	
CHM 4300L	Laboratory in Biochemistry and Molecular Biology	2
MCB 3020	Basic Biology of Microorganisms	3
Required Biochemistry Electives		6
Total Credits		62-69

[1] CHM 2054L can substitute for the CHM 2045L/CHM 2046L sequence or for CHM 2047L.

ISC 2400L *can substitute for the* CHM 2045L, BSC 2010L *and* PHY 2053L *requirements.* ISC 2401L *can substitute for the* CHM 2046L, BSC 2011L *and* PHY 2054L *requirements.*

Required Exit Exam

Students must also complete the exit exam (Diagnostic of Undergraduate Chemistry Knowledge) with a minimum score of 30 out of 60.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=400501&track=01) may be used for transfer students.

Semester 1

- Complete one CHM course and one MAC course
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.50 critical-tracking GPA and any additional CHM courses
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046/CHM 2046L and BSC 2010/BSC 2010L
- 2.65 critical-tracking GPA any additional CHM courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.75 critical-tracking GPA and any additional CHM courses
- 2.0 UF GPA required

Semester 5

- Complete MAC 2312 and CHM 2212, CHM 2210, or CHM 3217
- 2.75 critical-tracking GPA and any additional CHM courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

MAC 2312, MCB 3020, PHY 2049, PHY 2049L, PHY 2054, PHY 2054L, and Biochemistry electives outside of the Chemistry department count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	

IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	14
Semester Two		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Three		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2212	Organic Chemistry 1 for Majors (**Critical Tracking**)	3
State Core Gen Ed Humanities (p. 23)		3
Foreign language		4-5
	Credits	14-15
Semester Four		
CHM 2211L	Organic Chemistry Laboratory	2
CHM 2213	Organic Chemistry 2 for Majors	3
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1 (Gen Ed Physical Sciences)	5
Foreign language		3-5
Elective		3
	Credits	16-18
Semester Five		
CHM 3120 & 3120L	Introduction to Analytical Chemistry and Analytical Chemistry Laboratory	4
CHM 3218	Organic Chemistry/Biochemistry 2	4
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2 (Gen Ed Physical Sciences)	5
Elective (or foreign language if 4-3-3 option)		3
	Credits	16
Semester Six		
CHM 3400	Physical Chemistry for the Biosciences	3
CHM 4300L	Laboratory in Biochemistry and Molecular Biology	2
MCB 3020	Basic Biology of Microorganisms	3
Gen Ed Composition; Writing Requirement		3
Gen Ed Humanities		3
	Credits	14
Semester Seven		
CHM 3610	Inorganic Chemistry	3
CHM 4413L	Biophysical Chemistry Laboratory	2
Gen Ed Social and Behavioral Sciences		3
Approved biochemistry elective		3
Electives		4
	Credits	15
Semester Eight		
Gen Ed Social and Behavioral Sciences		3
Approved biochemistry elective		3
Electives		10
	Credits	16
	Total Credits	120

Approved Electives

Code	Title	Credits
BCH 5413	Mammal Molec Biol/Gen	3
CHM 3610L	Inorganic Chemistry Laboratory	2
CHM 4034	Advanced Biochemistry and Chemical Biology	4
CHM 4412	Physical Chemistry: Chemical Bonding and Spectroscopy	4
CHM 4611	Advanced Inorganic Chemistry	3
CHM 4671	Bioinorganic Chemistry	3
CHM 4130 & 4130L	Instrumental Analysis and Instrumental Analysis Laboratory	5
CHM 4230	Organic Spectroscopy	2
CHM 4272	The Organic Chemistry of Polymers	2
CHM 4304	Chemical Aspects of Cellular Control	3
MCB 4203	Bacterial Pathogens	3
MCB 4304	Genetics of Microorganisms	3
MCB 4403	Prokaryotic Cell Structure and Function	3
MCB 4503	General Virology	3
PCB 3063	Genetics	4
PCB 3134	Eukaryotic Cell Structure and Function	3
PCB 4233	Immunology	3
PCB 4522	Molecular Genetics	3
PHZ 4710	Introduction to Biological physics	3

Academic Learning Compact

Chemistry is the study of matter: the structure and properties of matter, the transformations from one form of matter to another and the energy transformations associated with these transformations.

Before Graduating Students Must

- Achieve at least 50% on the Diagnostic of Undergraduate Chemistry Knowledge (DUCK) exam.
- Obtain minimum grades of C in laboratory courses:

Code	Title	Credits
CHM 2211	Organic Chemistry 2	3
CHM 3120L	Analytical Chemistry Laboratory	1
CHM 4130L	Instrumental Analysis Laboratory	2
CHM 4411L	Physical Chemistry Laboratory	2
or CHM 4413L	Biophysical Chemistry Laboratory	

- Complete requirements for the baccalaureate degree, as determined by the chemistry faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1.
   - **Standard Chemistry**
     Explain and apply facts, theories and concepts in
     i. physical
     ii. organic
     iii. inorganic
     iv. analytical chemistry
   - **Biochemistry**
     Explain and apply facts, theories and concepts in
     i. physical
     ii. organic
     iii. inorganic
     iv. analytical chemistry
     v. biochemistry
2.

- **Standard Chemistry**
  Demonstrate and safely apply laboratory skills in
  i. synthetic
  ii. quantitative
  iii. instrumental methods as scientific approaches to gathering and verifying knowledge
- **Biochemistry**
  Apply laboratory skills in
  i. synthetic
  ii. quantitative
  iii. instrumental
  iv. biochemical methods as scientific approaches to gathering and verifying knowledge

Critical Thinking

3. **Standard Chemistry and Biochemistry**
   Interpret, evaluate, explain and critically assess theories and experimental results in chemistry or biochemistry.

Communication

4. **Standard Chemistry and Biochemistry**
   Collect, analyze and articulate results clearly and effectively in both oral and written formats.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Standard Chemistry

Courses	SLO 1-A	SLO 1-B	SLO 1-C	SLO 1-D	SLO 2-A	SLO 2-B	SLO 2-C	SLO 2-D	SLO 3	SLO 4
CHM 2045 and CHM 2046	I		I	I						
CHM 2211L					I, A					I
CHM 2212 and CHM 2213		I								
CHM 3120 and CHM 4130				R						
CHM 3120L						I, A	I			I
CHM 3610			R							
CHM 4130L						R	R, A		I	R, A
CHM 4411 and CHM 4412	R									
CHM 4411L						R	R		R	R, A
DUCK Exam	A	A	A	A						

Biochemistry

Courses	SLO 1-A	SLO 1-B	SLO 1-C	SLO 1-D	SLO 1-E	SLO 2-A	SLO 2-B	SLO 2-C	SLO 2-D	SLO 3	SLO 4
CHM 2045 and CHM 2046	I		I	I							
CHM 2211L						I, A					I
CHM 2212 and CHM 2213		I									
CHM 3120				R							
CHM 3120L							I, A	I			I
CHM 3218					I						
CHM 3400	R										
CHM 3610			R								

CHM 4300L								I			
CHM 4413L						R	R		R	R, A	
DUCK Exam A	A	A	A								

Assessment Types for Both Specializations

- Oral tests or reports
- Written reports
- Lab practicals

Chemistry | General

Chemistry is often called the *central science* because of the pivotal role it plays in the biological and physical sciences, as well as in engineering, agriculture, medicine, and allied health disciplines. Bachelor's degree chemists choose from diverse paths for their short-term and lifetime careers, including graduate study in a variety of programs, rewarding employment in industry or government laboratories, professional or law school, or much-needed teaching in high schools.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Specializations:** Biochemistry (p. 615) | General (p. 622)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Chemistry Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students can choose the standard chemistry program, which is comparable to that offered in any major university, or the biochemistry program, which is designed to give more flexibility to students wanting to pursue courses with biological focus. The department encourages students in either specialization to include undergraduate research with one of the department's internationally recognized faculty as a component of the undergraduate experience. Undergraduate research will frequently result in journal publications and/or presentations at scientific meetings.

Coursework for the Major

For either specialization (standard chemistry or biochemistry), all required courses must be completed within two attempts with minimum grades of C. Any foreign language acceptable to the college can be taken with this minimum program and language courses can be taken S-U. ENC 3254 is suggested to fulfill part of the university writing requirement.

Required Coursework

Required coursework will depend upon the program chosen. Coursework for each specialization can be found below under Critical Tracking and Model Semester Plan.

Recommended Coursework

A.C.S. Certified Program: To receive American Chemical Society certification, a student must complete the standard chemistry track. In addition, credit must be earned for CHM 3218, either CHM 3610L or CHM 4300L, and an additional two credits of advanced work in chemistry courses such as the following:

Code	Title	Credits
CHM 4034	Advanced Biochemistry and Chemical Biology	4
CHM 4230	Organic Spectroscopy	2
CHM 4272	The Organic Chemistry of Polymers	2
CHM 4304	Chemical Aspects of Cellular Control	3
CHM 4910	Undergraduate Research	3

If CHM 4910 is used, a thesis must be written.

Course Details

Introduction to General Chemistry

CHM 1025, a two-credit course, is offered for students who need to strengthen their understanding of basic concepts of atomic structure and stoichiometry before beginning the general chemistry sequence:

Code	Title	Credits
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	

A placement exam is offered via ONE.UF (https://one.uf.edu) and the score achieved determines whether CHM 1025 or CHM 2045 is the appropriate first course in chemistry.

General Chemistry

The following general chemistry offerings are available:

- CHM 1030/CHM 1031 is a terminal sequence for non-science students that presents chemistry from a medical and nursing perspective.
- CHM 1020 is a terminal general education course that explores chemistry in terms of society.
- CHM 2045/CHM 2045L and CHM 2046/CHM 2046L is the standard general chemistry sequence and is an acceptable preprofessional requirement for many science and engineering majors. Students are presumed to have good backgrounds in high school chemistry and mathematics (through MAC 1147) and are expected to pass the placement exam offered via ONE.UF (https://one.uf.edu) **before** registering for CHM 2045.
- CHM 2095/CHM 2045L and CHM 2096/CHM 2046L is an alternative general chemistry sequence especially designed for engineering majors.
- CHM 2047/CHM 2047L is a one-semester program for entering first-year students with strong backgrounds in chemistry, normally reflected by high AP or IB chemistry test scores. This program enables students to move more quickly into advanced work.
- CHM 2051 is offered as an alternative to CHM 2046 for students who have done particularly well in CHM 2045.
- CHM 2054L is a 2-credit, inquiry-based lab focusing on major concepts in chemistry and their application to quantitative life-sciences research. This course is equivalent to CHM 2045L and CHM 2046L or CHM 2047L.

Placement

For placement into the appropriate first course in chemistry, please refer to the Academic Advising section or consult a chemistry advisor. All students should complete their general chemistry studies at the same institution.
More Info (p. 1414)

Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified high school chemistry teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see a chemistry advisor about the UFTeach program. UFTeach students complete the UFTeach minor in science teaching with their B.S. in chemistry and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (https://education.ufl.edu/uf-teach)

Related Chemistry Programs

- Bachelor of Arts in Interdisciplinary Studies, Biochemistry and Molecular Biology (p. 799)
- Chemistry minor (p. 611)

Standard Chemistry

The standard chemistry major requires 65-70 credits, including the following coursework. With approval, this may include equivalent transfer coursework.

Code	Title	Credits
Required Foundation Coursework		
Select one option:		5-8
Option A [1]		
CHM 2045	General Chemistry 1	
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	
& 2046L	and General Chemistry 2 Laboratory	
Option B		

CHM 2045	General Chemistry 1	
& 2045L	and General Chemistry 1 Laboratory	
CHM 2051	Honors General Chemistry 2	
& CHM 2046L	and General Chemistry 2 Laboratory	
Option C		
CHM 2047	One-Semester General Chemistry	
& 2047L	and One-Semester General Chemistry Laboratory [1]	
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
Select one option:		8-10
Option A		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Option B		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Required Core Coursework		
Select one option:		8
Option A		
CHM 2212	Organic Chemistry 1 for Majors	
CHM 2213	Organic Chemistry 2 for Majors	
CHM 2211L	Organic Chemistry Laboratory	
Option B		
CHM 2210	Organic Chemistry 1	
CHM 2211	Organic Chemistry 2	
CHM 2211L	Organic Chemistry Laboratory	
CHM 3120	Introduction to Analytical Chemistry	4
& 3120L	and Analytical Chemistry Laboratory	
CHM 4130	Instrumental Analysis	5
& 4130L	and Instrumental Analysis Laboratory	
CHM 3610	Inorganic Chemistry	3
CHM 4411	Physical Chemistry: Thermodynamics and Kinetics	8
& CHM 4412	and Physical Chemistry: Chemical Bonding and Spectroscopy	
CHM 4413L	Biophysical Chemistry Laboratory	2
MAP 2302	Elementary Differential Equations (encouraged)	
Total Credits		55-60

[1] CHM 2054L can substitute for the CHM 2045L/CHM 2046L sequence or for CHM 2047L.

ISC 2400L *can substitute for the* CHM 2045L, BSC 2010L *and* PHY 2053L *requirements.* ISC 2401L *can substitute for the* CHM 2046L, BSC 2011L *and* PHY 2054L *requirements.*

Required Exit Exam

Students must also complete the exit exam (Diagnostic of Undergraduate Chemistry Knowledge) with a minimum score of 30 out of 60.

The required courses in the standard chemistry major are generally offered every fall and spring. Because of budgetary and other restrictions, summer schedules cannot be predetermined and required courses generally are offered in Summer C (12 weeks).

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=400501&track=01) may be used for transfer students.

Semester 1

- Complete one CHM course and one MAC course
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.50 critical-tracking GPA and any additional CHM courses
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046/CHM 2046L and MAC 2312
- 2.65 critical-tracking GPA and any additional CHM courses
- 2.0 UF GPA required

Semester 4

- 2.75 critical-tracking GPA and any additional CHM courses
- 2.0 UF GPA required

Semester 5

- Complete MAC 2313; and CHM 2212 or CHM 2210
- 2.75 critical-tracking GPA and any additional CHM courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

MAC 2312, MAC 2313, PHY 2049, PHY 2049L, PHY 2054, and PHY 2054L count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
Gen Ed Biological Sciences		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
	Credits	17
Semester Three		
CHM 2212	Organic Chemistry 1 for Majors (**Critical Tracking**)	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3-4
PHY 2048	Physics with Calculus 1 (Gen Ed Physical Sciences)	
PHY 2053	Physics 1 (Gen Ed Physical Sciences)	

Select one:		1
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	
PHY 2053L	Laboratory for Physics 1 (Gen Ed Physical Sciences)	
State Core Gen Ed Humanities (p. 23)		3
	Credits	14-15
Semester Four		
CHM 2213 & CHM 2211L	Organic Chemistry 2 for Majors and Organic Chemistry Laboratory	5
Select one:		3-4
PHY 2049	Physics with Calculus 2 (Gen Ed Physical Sciences)	
PHY 2054	Physics 2 (Gen Ed Physical Sciences)	
Select one:		1
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Physical Sciences)	
PHY 2054L	Laboratory for Physics 2 (Gen Ed Physical Sciences)	
Foreign language		4-5
Elective		1
	Credits	14-16
Semester Five		
CHM 3120 & 3120L	Introduction to Analytical Chemistry and Analytical Chemistry Laboratory [1]	4
Gen Ed Biological Sciences		3
Gen Ed Humanities		3
Gen Ed Social and Behavioral Sciences		3
Foreign language		3-5
	Credits	16-18
Semester Six		
CHM 4130 & 4130L	Instrumental Analysis and Instrumental Analysis Laboratory	5
CHM 4411	Physical Chemistry: Thermodynamics and Kinetics	4
Gen Ed Composition; Writing Requirement		3
Elective (or foreign language if 4-3-3 option)		3
	Credits	15
Semester Seven		
CHM 3610	Inorganic Chemistry	3
CHM 4413L	Biophysical Chemistry Laboratory	2
CHM 4412	Physical Chemistry: Chemical Bonding and Spectroscopy	4
Gen Ed Social and Behavioral Sciences		3
Elective		3
	Credits	15
Semester Eight		
Electives (3000 level or above, not in department)		6
Electives		9
	Credits	15
	Total Credits	120

[1] Take CHM 3120/CHM 3120L after CHM 2046/CHM 2046L, but no later than the first semester of the third year.

Academic Learning Compact

Chemistry is the study of matter: the structure and properties of matter, the transformations from one form of matter to another and the energy transformations associated with these transformations.

Before Graduating Students Must

- Achieve at least 50% on the Diagnostic of Undergraduate Chemistry Knowledge (DUCK) exam.
- Obtain minimum grades of C in laboratory courses:

Code	Title	Credits
CHM 2211	Organic Chemistry 2	3
CHM 3120L	Analytical Chemistry Laboratory	1
CHM 4130L	Instrumental Analysis Laboratory	2

CHM 4411L	Physical Chemistry Laboratory	2
or CHM 4413L	Biophysical Chemistry Laboratory	

- Complete requirements for the baccalaureate degree, as determined by the chemistry faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1.
   - **Standard Chemistry**
     Explain and apply facts, theories and concepts in
     i. physical
     ii. organic
     iii. inorganic
     iv. analytical chemistry
   - **Biochemistry**
     Explain and apply facts, theories and concepts in
     i. physical
     ii. organic
     iii. inorganic
     iv. analytical chemistry
     v. biochemistry
2.
   - **Standard Chemistry**
     Demonstrate and safely apply laboratory skills in
     i. synthetic
     ii. quantitative
     iii. instrumental methods as scientific approaches to gathering and verifying knowledge
   - **Biochemistry**
     Apply laboratory skills in
     i. synthetic
     ii. quantitative
     iii. instrumental
     iv. biochemical methods as scientific approaches to gathering and verifying knowledge

Critical Thinking

3. **Standard Chemistry and Biochemistry**
   Interpret, evaluate, explain and critically assess theories and experimental results in chemistry or biochemistry.

Communication

4. **Standard Chemistry and Biochemistry**
   Collect, analyze and articulate results clearly and effectively in both oral and written formats.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Standard Chemistry

Courses	SLO 1-A	SLO 1-B	SLO 1-C	SLO 1-D	SLO 2-A	SLO 2-B	SLO 2-C	SLO 2-D	SLO 3	SLO 4
CHM 2045 and CHM 2046	I		I	I						
CHM 2211L					I, A					I
CHM 2212 and CHM 2213		I								
CHM 3120 and CHM 4130				R						

CHM 3120L							I, A		I				I
CHM 3610				R									
CHM 4130L							R		R, A			I	R, A
CHM 4411 and CHM 4412	R												
CHM 4411L							R		R			R	R, A
DUCK Exam	A		A		A		A						

Biochemistry

Courses	SLO 1-A	SLO 1-B	SLO 1-C	SLO 1-D	SLO 1-E	SLO 2-A	SLO 2-B	SLO 2-C	SLO 2-D	SLO 3	SLO 4
CHM 2045 and CHM 2046	I		I	I							
CHM 2211L						I, A					I
CHM 2212 and CHM 2213		I									
CHM 3120				R							
CHM 3120L							I, A	I			I
CHM 3218					I						
CHM 3400	R										
CHM 3610			R								
CHM 4300L									I		
CHM 4413L							R	R		R	R, A
DUCK Exam	A		A	A							

Assessment Types for Both Specializations

- Oral tests or reports
- Written reports
- Lab practicals

Chinese

Foreign Languages and Literatures

The Chinese specialization in foreign languages and literatures develops proficiency in the Chinese language and acquaints students with the literature and cultural history of China. Courses are also available for those interested in business Chinese, classical Chinese, film, and women's studies.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Chinese Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in Foreign Languages and Literatures (FLL) provides students with a comprehensive knowledge of a specific language (or languages) and advanced familiarity with the cultural practices and traditions associated with the language(s) of specialization. The major in FLL enhances critical thinking and communication skills and provides students with a cross-cultural understanding of our contemporary world. The program allows students the flexibility to explore a single or dual language specialization as well as the opportunity to study culture through interdisciplinary fields of critical concentration, such as Comparative Cultural Studies, Film and Visual Culture, Intensive Area Studies, Literary Studies, and Medieval and Early Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security,

communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

The Chinese specialization of the Foreign Languages and Literatures major provides a foundation for graduate-level work in East Asian studies or allied fields (anthropology, art history, history, linguistics, political science and religion). The major is excellent general preparation for entry to professional schools (business, journalism, law and medicine) or careers in foreign service, commerce, diplomacy, translation, business, import and export of information and culture, museums, libraries, and tourism.

Coursework for the Major

The Chinese specialization of the Foreign Languages and Literatures major consists of preparatory language study at the lower division (1000 and 2000 level), and 33 hours of advanced language, theory, and culture study in the upper division (3000 level and above).

All coursework for the major must be completed with minimum grades of C.

Code	Title	Credits
Required Foundation Coursework		
CHI 1130	Beginning Chinese 1	5
CHI 1131	Beginning Chinese 2	5
CHI 2230	Intermediate Chinese 1	4-5
or CHI 2340	Chinese for Heritage Learners 1	
CHI 2231	Intermediate Chinese 2	4-5
or CHI 2341	Chinese for Heritage Learners 2	
Required Core Coursework		
Advanced Language and Culture		
CHI 3410	Advanced Chinese 1	3
CHI 3411	Advanced Chinese 2	3
Advanced Elective Coursework		
Select 18 credits with at least six credits of CHT courses:		18
CHI 3403	Chinese Calligraphy	
CHI 3440	Business Chinese	
CHI 4050	Fourth Year Chinese 1	
CHI 4051	Fourth Year Chinese 2	
CHI 4850	Structure of Chinese	
CHI 4905	Individual Study	
CHI 4930	Special Topics in Chinese Studies	
CHI 4935	Senior Thesis	
CHI 4940	Internship	
CHI 4956	Overseas Studies	
CHT 3110	Chinese Literary Heritage	
CHT 3123	Pre-Modern Chinese Fiction in Translation	
CHT 3124	Modern Chinese Fiction in Translation	
CHT 3391	Chinese Film and Media	
CHT 3500	Chinese Culture	
CHT 3513	Taoism and Chinese Culture	
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	
CHT 4111	Dream of the Red Chamber	
CHT 4603	Journey to the West	
CHW 4120	Classical Chinese 1	
CHW 4121	Classical Chinese 2	
CHW 4130	Readings in Chinese Literature	
CHW 4140	Newspaper Chinese	
Critical Concentration		
Select 9 credits from one concentration: [1]		9
Intensive Area Studies [2]		
Comparative Cultural Studies		
Film and Visual Culture		
Literary Studies		
Medieval and Early Modern Studies		
Total Credits		51-53

[1] Although courses may appear in more than one group they may be counted toward only one group.

[2] Recommended for those planning to pursue careers requiring advanced level skills in Chinese or graduate work in Chinese studies.

Students must take the Chinese STAMP 4s Proficiency Test or the equivalent, with level 4 or above proficiency, during or immediately following the second semester of Advanced Chinese or other advanced level course.

Students also must achieve satisfactory faculty evaluation of a self-selected research term paper written for an upper-division course or senior thesis.

Overseas Study

UF in Chengdu at Southwestern University of Finance and Economics is a summer program that provides the equivalent of the UF courses Intermediate Chinese 1 and 2 (CHI 2230/2231) and Advanced Chinese 1 and 2 (CHI 3410/3411) through a 10-week summer session, and uses the same syllabus and required textbooks. Its transfer-credit program features courses in English, CHI 4930 Chinese Society and CHI 4956 Sichuan Culture, that also may apply toward the Chinese specialization.

Placement

Students with previous training in Chinese, as well as those with heritage background in the language, should consult the undergraduate coordinator or the language coordinator of the Chinese specialization before enrolling in any CHI or CHW course. Placement tests are given at the start of each semester; refer to the Department of Languages, Literatures and Cultures for location and times.

Related Chinese Programs

- East Asian Languages and Literatures minor (p. 676)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160399&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete CHI 1130 or higher level language course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete CHI 1131 or higher level language course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete CHI 2230 or higher level language course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Actual courses may be different depending on language preparation and availability of courses. In particular, beginning language is best started semester 1 and no later than semester 3, but study abroad or accredited intensive summer courses can be used to catch up.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). Several courses in this major count for GE-H and N *or* GE-S and N requirements. 3000 level or above critical concentration courses outside of Chinese may count toward the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHI 1130	Beginning Chinese 1 (**Critical Tracking**)	5
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
CHI 1131	Beginning Chinese 2 (**Critical Tracking**)	5
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological or Physical Sciences (area NOT taken in semester 1)		3
State Core Gen Ed Mathematics (p. 23)		3
Science Laboratory (Gen Ed Biological or Physical Sciences)		1
	Credits	15
Semester Three		
CHI 2230	Intermediate Chinese 1 (**Critical Tracking**)	5
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	17
Semester Four		
CHI 2231	Intermediate Chinese 2	5
Advanced elective (3000 level or above; in the major)		3
Elective (3000 level or above; not in major)		3
Elective		3
	Credits	14
Semester Five		
CHI 3410	Advanced Chinese 1 (Gen Ed Social and Behavioral Sciences and International)	3
LIN 3010	Introduction to Linguistics (recommended elective; Gen Ed Humanities)	3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Advanced elective (3000 level or above; in the major)		3
	Credits	15
Semester Six		
CHI 3411	Advanced Chinese 2 (Gen Ed Social and Behavioral Sciences and International)	3
Critical concentration course		3
Elective credits (3000 level or above; in the major)		6
Elective (3000 level or above; not in major)		3
	Credits	15
Semester Seven		
Critical concentration course		3
Advanced elective (4000 level or above; in the major)		3
Electives (3000 level or above; not in major)		6
Elective or senior thesis option		3
	Credits	15
Semester Eight		
Critical concentration course		3
Advanced elective (4000 level or above; in the major)		3
Electives (3000 level or above; not in major)		6
Elective		3
	Credits	15
	Total Credits	120

Critical Concentration Courses

9 Credits from One Concentration

Although courses may appear in more than one group they may be counted toward only one group

Intensive Area Studies | Chinese

Recommended for those planning to pursue careers requiring advanced level skills in Chinese or graduate work in Chinese studies

Option 1 | China

Code	Title	Credits
CHI 3403	Chinese Calligraphy	3
CHI 3440	Business Chinese	3
CHI 4850	Structure of Chinese	3
CHI 4930	Special Topics in Chinese Studies	3
CHI 4935	Senior Thesis	3
CHI 4940	Internship	1-6
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3

Intensive Area Studies | Chinese

Option 2 | Comparative Studies East Asia

Code	Title	Credits
ANT 3364	Peoples and Cultures of China	3
ANT 4930	Special Topics in Anthropology (Ethnicity in China)	3
ARH 3552	Chinese Art and Archaeology 2000 BCE	3
ARH 3555	Late Imperial and Modern Chinese Art, 1907 - present	3
ARH 4533	Asian Monuments and Heritage Conservation	3
ARH 4559	Archaeology of Death in Ancient China	3
ARH 4931	Art History Seminar (Art in Tombs)	3
ASH 3303	Modern Korea: Power and Protest	3
ASH 3442	Modern Japan	3
ASH 4930	History Research Seminar: Asia (Pacific War)	3
REL 3318	Chinese Religions	3
REL 3335	Hindu Sacred Text/Social-Ritual Context	3
REL 3336	Religion in Modern India	3
REL 3344	Chinese Buddhism	3
REL 3938	Special Topics in Religion (Buddhist Meditation)	3
VTT 3500	Vietnamese Culture	3
WST 3415	Transnational Feminism	3

Comparative Cultural Studies

Code	Title	Credits
ABT 3500	Arabic Culture	3
ABT 4131	The Qur'an as Literature	3
ARA 3510	The Arab Woman	3
CHI 3403	Chinese Calligraphy	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CZT 3564	Modern Czech Culture and Society	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3003	German Culture and Civilization 1	3
GET 3004	Modern German Culture and Civilization	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
HAI 3930	Haitian Culture and Society	3
HAT 3564	Haitian Culture and Society	3

ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JMT 3500	Jamaican Creole, Reggae, and Rastafari	3
JPT 3500	Japanese Culture	3
JPT 4502	Japanese Folklore	3
RUT 3443	War and Peace	3
RUT 3500	Russian Cultural Heritage	3
RUT 3501	Contemporary Russian Culture and Society	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3504	Russia Today	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3524	Russia through Film	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 4450	Russian Modernism	3
VTT 3500	Vietnamese Culture	3
YOT 3500	Yoruba Diaspora in the New World	3

Film and Visual Culture

Code	Title	Credits
CHI 4930	Special Topics in Chinese Studies	3
CHT 3391	Chinese Film and Media	4
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	4
FRT 3520	French Cinema	4
FRT 3561	Women in French Literature and/or Cinema	3-4
FRT 4523	European Identities, European Cinemas	4
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
HBR 4930	Special Topics	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPN 4930	Special Topics in Japanese Studies	3
JPT 3391	Introduction to Japanese Film	4
JPT 3702	Japanese Visual Culture	3
PLT 3520	Polish Cinema	4
RUT 3524	Russia through Film	3
SSA 4930	Special Topics in African Studies	3

Literary Studies

Code	Title	Credits
ABT 3130	Arabic Literary Heritage 1	3
ABT 4131	The Qur'an as Literature	3
CHI 4930	Special Topics in Chinese Studies	3
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3200	Medieval Literary Culture	3
GET 3501	History, Literature and Arts of Berlin	3

GET 3580	Representations of War in Literature and Visual Media	3
GET 4930	Variable Topics in German Studies	3
HAT 3503	Haitian Culture and Literature in Translation	3
HBR 4930	Special Topics	3
HBT 3223	Identity and Dissent in the Hebrew Short Story	3
HBT 3233	Israeli History and the Contemporary Novel	3
HBT 3563	Women in Modern Hebrew Fiction	3
HBT 3564	Motherhood in Modern Hebrew Literature	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3140	Modern Women Writers	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
PLT 3930	Special Topics in Polish Studies	3
RUT 3101	Russian Masterpieces	3
RUT 3441	Tolstoy and Dostoevsky	3
RUT 3442	Themes from Russian Literature	3
RUT 3443	War and Peace	3
RUT 3452	Russian Literature of the Twentieth Century	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 3930	Variable Topics in Russian Studies	3
RUT 4440	Pushkin and Gogol	3
RUT 4450	Russian Modernism	3
SST 4502	African Oral Literature	3
SSW 3303	Swahili Oral Literature	3
SSW 4713	African Women Writers	3
VTN 4930	Special Topics in Vietnamese Studies	3
YOR 4502	Yoruba Oral Literature	3

Medieval and Early Modern Studies

Code	Title	Credits
ARA 3510	The Arab Woman	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
GET 3200	Medieval Literary Culture	3
ITT 3431	Italy and Pilgrimages	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
MEM 3003	Introduction to the Medieval World	3
MEM 3300	Castles and Cloisters: An Introduction to Medieval Communities	3
MEM 3301	Palaces and Cities: An Introduction to Early Modern Communities	3
MEM 3730	Studies in the Holy Roman Empire	3
MEM 3805	Research Methods in Medieval and Early Modern Studies	1
MEM 3931	Variable Topics in Medieval and Early Modern Studies	3

Academic Learning Compact

The Foreign Languages and Literatures (FLL) major enables students to achieve communicative competence in their language(s) of specialization. Students will become knowledgeable in the culture and literature and/or linguistics associated with their language area(s) such that they will be able to critically analyze and evaluate authentic sources in the target language(s) and formulate independent, critical perspectives in the target language(s). Further, students will learn the intercultural skills and practical know-how necessary to negotiate traveling, studying, and living in the target culture(s).

Before Graduating Students Must

- Satisfy the Florida statutes for the College-Level Academic Skills Requirement.
- Complete requirements for the baccalaureate degree, as determined by faculty.
- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and define cultural concepts, literary production, and/or linguistic structure in language(s) of specialization.

Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I, R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

Classical Studies

Classical studies is an interdisciplinary major, with specializations in ancient language, classical civilization, and teacher certification that offer students instruction in the history, literature, and culture of the ancient Greeks and Romans. These three specializations require proficiency in Latin or ancient Greek. A fourth specialization in modern Greek offers students instruction in the language, literature, and culture of modern Greece and requires proficiency in modern Greek.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** Ancient Language (p. 638) | Classical Civilization (p. 643) | Modern Greek (p. 648) | Teacher Certification (p. 652)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Classical Studies Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students who major in classical studies often pursue graduate studies in classical languages and literature, art history, ancient history, archaeology, comparative literature, and museum studies. Additional career opportunities are possible depending upon the specialization the student chooses. Small class sizes, emphasis on critical thinking and expression, and a faculty committed to involvement in lower-level undergraduate courses also make this major appealing to students who want excellent preparation for entry to professional schools (e.g., medicine or law).

Specializations

Ancient Language

The ancient language specialization is appropriate for students wishing to have direct contact with the literature and culture of the ancients, and for those who plan to do graduate study in Greek or Latin. Students interested in admission to competitive graduate programs need a minimum of three years of upper-division courses in ancient Greek or Latin and an additional year in the remaining language.

Classical Civilization

The classical civilization specialization is appropriate for those who desire a broad humanities background or are considering admission to graduate school in archaeology, ancient history or an unrelated field such as medicine or law. Students interested in admission to competitive graduate programs in archaeology or ancient history should consult the Department of Classics' undergraduate coordinator for information on specific requirements.

Modern Greek

The modern Greek specialization is appropriate for students wishing to have direct contact with the language, literature, and culture of modern Greece and a closer acquaintance with ancient and medieval Greek civilization. Students study in greater detail the numerous communities of the diaspora, which includes the large and flourishing Greek-American communities of Florida, their history and contemporary culture. By learning a modern European language, students can work in translation, education, services, tourism, the entertainment industry, and political or financial institutions with ties to Greece or Cyprus.

Teacher Certification

Students who want to be high-school Latin teachers should follow the teacher certification specialization. Students who pursue the Florida Teaching minor have the coursework and preparation for professional teacher certification in Florida when they graduate. Alternatively, students can consider a minor in educational studies that would be beneficial if applying to the ProTeach program. Students should consult the College of Education for more information.

Coursework for the Major

Students must complete 21-30 credits of coursework for the classical studies major; the total is dependent upon the specialization. Students must earn a minimum grade of C in a course for it to be applied to the major; no S/U courses can be applied. The Department of Classics requires that a minimum 15 credits of major-related courses be completed at the University of Florida.

All classical studies majors are also required to demonstrate proficiency in Latin, ancient Greek, or modern Greek, depending on the specialization. Credits earned in language courses are not included in the 21-30 credits of coursework for the major.

Overseas Studies

Students may participate in summer, semester, or academic year programs in Italy and Greece. Competitive scholarships for study abroad are available. Students in the modern Greek specialization are encouraged to participate in programs in Greece or Cyprus supported with competitive scholarships by the Center for Greek Studies and other organizations in the United States, Greece, and the European Union.

Placement

Refer to Placement Testing and Evaluation for information on placement into Latin.

Related Classical Studies Programs

- Classical Studies minor (p. 657)

Academic Learning Compact

The Bachelor of Arts in classical studies, with specializations in classical civilization, ancient language, teacher certification or modern Greek studies provides a strong foundation in the liberal arts through study of the language, literature, monuments and history of ancient Greece and Rome. Students will develop linguistic, critical thinking and writing skills while gaining knowledge of classical civilization. Students also will explore the connection between the ancient and modern worlds and discover the contributions of classical culture to western civilization.

Before Graduating Students Must

- Successfully complete a department capstone course for majors.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Translate passages of Latin, ancient Greek or Modern Greek literature into English.

Critical Thinking

2. Recognize and explain the connection between the ancient and modern worlds and the contribution of Classical culture to Western civilization.

Communication

3. Write competently in Latin, ancient Greek, or Modern Greek using correct grammar and vocabulary of one or more of these languages. For Modern Greek, speak and comprehend competently.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Classical Civilization

Courses	SLO 1	SLO 2	SLO 3
CLA 2100, CLA 2120, CLA 3114	I	I	
CLA 3111, CLA 3151, CLA 3430, CLA 3500, CLA 3501, CLA 3791, CLA 3793, CLA 3930	R	R	R
CLA 3160, CLA 3700		I	
CLA 4173, CLA 4880		R	
CLA 4931 Capstone		A	
CLT 2044	I	I	
CLT 3102, CLA 3230, CLA 3291, CLA 3340		R	
CLT 3370, CLA 3371		I	

Greek, Ancient

Courses	SLO 1	SLO 2	SLO 3
GRE 1120, GRE 1121 and GRE 1130, GRE 1131	I		I
GRW 2200, GRW 2201, GRW 2250	R	I	R
GRW 3102, GRW 3300, GRW 3303, GRW 3501, GRW 4330, GRW 4340, GRW 4380, GRW 4700, GRW 4930	A	R	A

Greek, Modern

Courses	SLO 1	SLO 2	SLO 3
GRK 1120, GRK 1121 and GRK 1130, GRK 1131	I		I
GRK 2200, GRK 2201	R	I	R
GRK 4300	A	R	A

Latin

Courses	SLO 1	SLO 2	SLO 3
LAT 1120, LAT 1101, LAT 1104 and LAT 1130, LAT 1131	I		I
LNW 2321, LNW 2560, LNW 2630, LNW 2660	R	I	R

LNW 3220, LNW 3310, LNW 3320, LNW 3360, LNW 3380, LNW 3490, LNW 3644, LNW 3660, LNW 3930	A	R	A

Assessment Types

- Translations
- Group presentations
- Research papers

Classical Studies | Ancient Language

Classical studies is an interdisciplinary major, with specializations in ancient language, classical civilization, and teacher certification that offer students instruction in the history, literature, and culture of the ancient Greeks and Romans. These three specializations require proficiency in Latin or ancient Greek. A fourth specialization in modern Greek offers students instruction in the language, literature, and culture of modern Greece and requires proficiency in modern Greek.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
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- **Specializations:** Ancient Language (p. 638) | Classical Civilization (p. 643) | Modern Greek (p. 648) | Teacher Certification (p. 652)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Classical Studies Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students who major in classical studies often pursue graduate studies in classical languages and literature, art history, ancient history, archaeology, comparative literature, and museum studies. Additional career opportunities are possible depending upon the specialization the student chooses. Small class sizes, emphasis on critical thinking and expression, and a faculty committed to involvement in lower-level undergraduate courses also make this major appealing to students who want excellent preparation for entry to professional schools (e.g., medicine or law).

Specializations

Ancient Language

The ancient language specialization is appropriate for students wishing to have direct contact with the literature and culture of the ancients, and for those who plan to do graduate study in Greek or Latin. Students interested in admission to competitive graduate programs need a minimum of three years of upper-division courses in ancient Greek or Latin and an additional year in the remaining language.

Classical Civilization

The classical civilization specialization is appropriate for those who desire a broad humanities background or are considering admission to graduate school in archaeology, ancient history or an unrelated field such as medicine or law. Students interested in admission to competitive graduate programs in archaeology or ancient history should consult the Department of Classics' undergraduate coordinator for information on specific requirements.

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The modern Greek specialization is appropriate for students wishing to have direct contact with the language, literature, and culture of modern Greece and a closer acquaintance with ancient and medieval Greek civilization. Students study in greater detail the numerous communities of the diaspora, which includes the large and flourishing Greek-American communities of Florida, their history and contemporary culture. By learning a modern European language, students can work in translation, education, services, tourism, the entertainment industry, and political or financial institutions with ties to Greece or Cyprus.

Teacher Certification

Students who want to be high-school Latin teachers should follow the teacher certification specialization. Students who pursue the Florida Teaching minor have the coursework and preparation for professional teacher certification in Florida when they graduate. Alternatively, students can consider a minor in educational studies that would be beneficial if applying to the ProTeach program. Students should consult the College of Education for more information.

Coursework for the Major

Students must complete 21-30 credits of coursework for the classical studies major; the total is dependent upon the specialization. Students must earn a minimum grade of C in a course for it to be applied to the major; no S/U courses can be applied. The Department of Classics requires that a minimum 15 credits of major-related courses be completed at the University of Florida.

All classical studies majors are also required to demonstrate proficiency in Latin, ancient Greek, or modern Greek, depending on the specialization. Credits earned in language courses are not included in the 21-30 credits of coursework for the major.

Overseas Studies

Students may participate in summer, semester, or academic year programs in Italy and Greece. Competitive scholarships for study abroad are available. Students in the modern Greek specialization are encouraged to participate in programs in Greece or Cyprus supported with competitive scholarships by the Center for Greek Studies and other organizations in the United States, Greece, and the European Union.

Placement

Refer to Placement Testing and Evaluation for information on placement into Latin.

Related Classical Studies Programs

- Classical Studies minor (p. 657)

Ancient Language

Required Coursework

Students must demonstrate proficiency in Latin or ancient Greek through one of these four options:

1. 10 credits of beginning Latin or beginning ancient Greek:

Code	Title	Credits
Select one beginning Latin option: [1]		10
Option A		
LAT 1120	Beginning Latin 1	
LAT 1101	Beginning Latin 2	
LAT 1104	Beginning Latin 3	
Option B		
LAT 1130	Accelerated Beginning Latin 1	
LAT 1131	Accelerated Beginning Latin 2	
OR		
Select one beginning ancient Greek option:		8-10
Option A		
GRE 1120	Beginning Ancient Greek 1	
GRE 1121	Beginning Ancient Greek 2	
Option B		
GRE 1130	Accelerated Beginning Ancient Greek 1	
GRE 1131	Accelerated Beginning Ancient Greek 2	

[1] Students with high school Latin complete the sequence based upon their score on the SAT II Latin test (or other placement mechanism).

2. A score of 3 or above on one of the AP Latin exams (Latin Literature or Vergil).
3. Completion of LNW 2630 or a 2000-level ancient Greek course.
4. A 3000-level course in the original Latin or Greek literature.

In addition to demonstrating proficiency in Latin or ancient Greek, students must complete 21 credits of coursework for the major:

- Two courses on the ancient Graeco-Roman world (in English translation) from the Department of Classics or approved courses from the departments of Anthropology, Art, History, Philosophy, Political Science, and Religion. At least one course must be 3000 level or above.
- Five courses at the 3000 level or above in Latin or Greek or a combination of Greek and Latin, including CLA 4931. Students who complete the language requirement using a 3000-level course in Latin or Greek literature need only four Latin or Greek courses at the 3000 level or above.
- Students planning to go to graduate school in classical languages and literature will need more credits in ancient languages.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=161200&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete one Latin or ancient Greek course [1]
- 2.0 UF GPA required

Semester 3

- 2.0 UF GPA required

Semester 4

- Complete one additional Latin or ancient Greek course with 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete two Latin or ancient Greek courses with 2.5 critical-tracking GPA
- 2.0 UF GPA required

[1] Students with prior Greek or Latin and an SAT II Latin score of 540 or higher, a 3 or higher on the AP Latin exam or a 4 or higher on the IB exam will begin with more advanced courses.

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). One of the two general education mathematics courses must be a pure math course.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one: [1]		4-5
LAT 1120	Beginning Latin 1 (**Critical Tracking**)	
LAT 1130	Accelerated Beginning Latin 1 (**Critical Tracking**)	
GRE 1120	Beginning Ancient Greek 1 (**Critical Tracking**)	
GRE 1130	Accelerated Beginning Ancient Greek 1 (**Critical Tracking**; or higher if placed out by SAT II) [1]	
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16-17
Semester Two		
Select one:		3-5
LAT 1101	Beginning Latin 2 (**Critical Tracking**)	
LAT 1131	Accelerated Beginning Latin 2 (**Critical Tracking**)	
GRE 1121	Beginning Ancient Greek 2 (**Critical Tracking**)	
GRE 1131	Accelerated Beginning Ancient Greek 2 (**Critical Tracking**)	

Elective if placed out by SAT II [1]		
Gen Ed Biological or Physical Sciences (area NOT taken in Semester 1)		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
Elective		3
	Credits	15-17
Semester Three		
Select one:		3
LAT 1104	Beginning Latin 3 (if needed)	
Elective		
Select one elective: [1]		3
CLA 2100	The Glory That Was Greece (recommended) [1]	
CLA 2120	The Grandeur That Was Rome (recommended) [1]	
Gen Ed Mathematics		3
Science Laboratory (Gen Ed Biological or Physical Sciences)		1
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
Gen Ed Biological Sciences		3
Select one elective: [1]		3
CLA 2100	The Glory That Was Greece (recommended) [1]	
CLA 2120	The Grandeur That Was Rome (recommended) [1]	
Gen Ed Social and Behavioral Sciences		3
Electives		6
	Credits	15
Semester Five		
Gen Ed Composition; Writing Requirement		3
Electives (3000 level or above, not in major)		6
Latin or Greek courses (3000 level or above)		6
	Credits	15
Semester Six		
Ancient Graeco-Roman World course (3000 level or above)		3
Latin or Greek course (3000 level or above)		3
Electives (3000 level or above, not in major)		6
Elective		3
	Credits	15
Semester Seven		
Ancient Graeco-Roman World course		3
Electives (3000 level or above, not in major)		6
Latin or Greek course (3000 level or above)		3
Elective		3
	Credits	15
Semester Eight		
CLA 4931	Classics Capstone Seminar	3
Elective or honors thesis		3
Electives		7
	Credits	13
	Total Credits	120

[1] Students with prior Greek or Latin and an SAT II Latin score of 540 or higher, a 3 or higher on the AP Latin exam or a 4 or higher on the IB exam will begin with more advanced courses.

Academic Learning Compact

The Bachelor of Arts in classical studies, with specializations in classical civilization, ancient language, teacher certification or modern Greek studies provides a strong foundation in the liberal arts through study of the language, literature, monuments and history of ancient Greece and Rome. Students will develop linguistic, critical thinking and writing skills while gaining knowledge of classical civilization. Students also will explore the connection between the ancient and modern worlds and discover the contributions of classical culture to western civilization.

Before Graduating Students Must

- Successfully complete a department capstone course for majors.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Translate passages of Latin, ancient Greek or Modern Greek literature into English.

Critical Thinking

2. Recognize and explain the connection between the ancient and modern worlds and the contribution of Classical culture to Western civilization.

Communication

3. Write competently in Latin, ancient Greek, or Modern Greek using correct grammar and vocabulary of one or more of these languages. For Modern Greek, speak and comprehend competently.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Classical Civilization

Courses	SLO 1	SLO 2	SLO 3
CLA 2100, CLA 2120, CLA 3114	I	I	
CLA 3111, CLA 3151, CLA 3430, CLA 3500, CLA 3501, CLA 3791, CLA 3793, CLA 3930	R	R	R
CLA 3160, CLA 3700		I	
CLA 4173, CLA 4880		R	
CLA 4931 Capstone		A	
CLT 2044	I	I	
CLT 3102, CLA 3230, CLA 3291, CLA 3340		R	
CLT 3370, CLA 3371		I	

Greek, Ancient

Courses	SLO 1	SLO 2	SLO 3
GRE 1120, GRE 1121 and GRE 1130, GRE 1131	I		I
GRW 2200, GRW 2201, GRW 2250	R	I	R
GRW 3102, GRW 3300, GRW 3303, GRW 3501, GRW 4330, GRW 4340, GRW 4380, GRW 4700, GRW 4930	A	R	A

Greek, Modern

Courses	SLO 1	SLO 2	SLO 3
GRK 1120, GRK 1121 and GRK 1130, GRK 1131	I		I
GRK 2200, GRK 2201	R	I	R
GRK 4300	A	R	A

Latin

Courses	SLO 1	SLO 2	SLO 3
LAT 1120, LAT 1101, LAT 1104 and LAT 1130, LAT 1131	I		I
LNW 2321, LNW 2560, LNW 2630, LNW 2660	R	I	R

LNW 3220, LNW 3310, LNW 3320, LNW 3360, LNW 3380, LNW 3490, LNW 3644, LNW 3660, LNW 3930	A	R	A

Assessment Types

- Translations
- Group presentations
- Research papers

Classical Studies | Classical Civilization

Classical studies is an interdisciplinary major, with specializations in ancient language, classical civilization, and teacher certification that offer students instruction in the history, literature, and culture of the ancient Greeks and Romans. These three specializations require proficiency in Latin or ancient Greek. A fourth specialization in modern Greek offers students instruction in the language, literature, and culture of modern Greece and requires proficiency in modern Greek.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** Ancient Language (p. 638) | Classical Civilization (p. 643) | Modern Greek (p. 648) | Teacher Certification (p. 652)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Classical Studies Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students who major in classical studies often pursue graduate studies in classical languages and literature, art history, ancient history, archaeology, comparative literature, and museum studies. Additional career opportunities are possible depending upon the specialization the student chooses. Small class sizes, emphasis on critical thinking and expression, and a faculty committed to involvement in lower-level undergraduate courses also make this major appealing to students who want excellent preparation for entry to professional schools (e.g., medicine or law).

Specializations

Ancient Language

The ancient language specialization is appropriate for students wishing to have direct contact with the literature and culture of the ancients, and for those who plan to do graduate study in Greek or Latin. Students interested in admission to competitive graduate programs need a minimum of three years of upper-division courses in ancient Greek or Latin and an additional year in the remaining language.

Classical Civilization

The classical civilization specialization is appropriate for those who desire a broad humanities background or are considering admission to graduate school in archaeology, ancient history or an unrelated field such as medicine or law. Students interested in admission to competitive graduate programs in archaeology or ancient history should consult the Department of Classics' undergraduate coordinator for information on specific requirements.

Modern Greek

The modern Greek specialization is appropriate for students wishing to have direct contact with the language, literature, and culture of modern Greece and a closer acquaintance with ancient and medieval Greek civilization. Students study in greater detail the numerous communities of the diaspora, which includes the large and flourishing Greek-American communities of Florida, their history and contemporary culture. By learning a modern European language, students can work in translation, education, services, tourism, the entertainment industry, and political or financial institutions with ties to Greece or Cyprus.

Teacher Certification

Students who want to be high-school Latin teachers should follow the teacher certification specialization. Students who pursue the Florida Teaching minor have the coursework and preparation for professional teacher certification in Florida when they graduate. Alternatively, students can consider a minor in educational studies that would be beneficial if applying to the ProTeach program. Students should consult the College of Education for more information.

Coursework for the Major

Students must complete 21-30 credits of coursework for the classical studies major; the total is dependent upon the specialization. Students must earn a minimum grade of C in a course for it to be applied to the major; no S/U courses can be applied. The Department of Classics requires that a minimum 15 credits of major-related courses be completed at the University of Florida.

All classical studies majors are also required to demonstrate proficiency in Latin, ancient Greek, or modern Greek, depending on the specialization. Credits earned in language courses are not included in the 21-30 credits of coursework for the major.

Overseas Studies

Students may participate in summer, semester, or academic year programs in Italy and Greece. Competitive scholarships for study abroad are available. Students in the modern Greek specialization are encouraged to participate in programs in Greece or Cyprus supported with competitive scholarships by the Center for Greek Studies and other organizations in the United States, Greece, and the European Union.

Placement

Refer to Placement Testing and Evaluation for information on placement into Latin.

Related Classical Studies Programs

- Classical Studies minor (p. 657)

Classical Civilization

Required Coursework

Students must demonstrate proficiency in Latin or ancient Greek through one of these four options:

10 credits of beginning Latin or beginning ancient Greek:

Code	Title	Credits
Select one beginning Latin option: [1]		10
Option A		
LAT 1120	Beginning Latin 1	
LAT 1101	Beginning Latin 2	
LAT 1104	Beginning Latin 3	
Option B		
LAT 1130	Accelerated Beginning Latin 1	
LAT 1131	Accelerated Beginning Latin 2	
OR		
Select one beginning ancient Greek option:		8-10
Option A		
GRE 1120	Beginning Ancient Greek 1	
GRE 1121	Beginning Ancient Greek 2	
Option B		
GRE 1130	Accelerated Beginning Ancient Greek 1	
GRE 1131	Accelerated Beginning Ancient Greek 2	

[1] Students with high school Latin complete the sequence based upon their score on the SAT II Latin test (or other placement mechanism).

1. A score of 3 or above in one of the AP Latin exams (Latin Literature or Vergil).
2. Completion of LNW 2630 or a 2000-level ancient Greek course.
3. A 3000-level course in the original Latin or Greek literature.

In addition to demonstrating proficiency in Latin or ancient Greek, students must complete 24 credits of coursework for the major:

- 24 credits covering the ancient Graeco-Roman world (in English translation) from the Department of Classics or approved courses from the departments of Anthropology, Art, History, Philosophy, Political Science, and Religion.
  - At least 18 credits must be 3000 level or above, including CLA 4931.
  - Modern Greek may be taken for the six credits at the 1000/2000 level.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=161200&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete one Latin or ancient Greek course [1]
- 2.0 UF GPA required

Semester 3

- 2.0 UF GPA required

Semester 4

- Complete one additional Latin or ancient Greek course with 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete two additional Latin or ancient Greek courses with 2.5 critical-tracking GPA
- 2.0 UF GPA required

[1] Students with prior Greek or Latin and an SAT II Latin score of 540 or higher, a 3 or higher on the AP Latin exam or a 4 or higher on the IB exam will begin with more advanced courses.

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). One of the two general education mathematics courses must be a pure math course.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Ancient Graeco-Roman World (**Critical Tracking**; 2000 level or above) or Modern Greek course		3-5
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15-17
Semester Two		
Ancient Graeco-Roman World (**Critical Tracking**; 2000 level or above) or Modern Greek course		3-5
Gen Ed Biological or Physical Sciences (area NOT taken in Semester 1)		3
Select one elective:		3
CLA 2100	The Glory That Was Greece (recommended)	
CLA 2120	The Grandeur That Was Rome (recommended)	
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15-17
Semester Three		
Select one:		4-5
LAT 1120	Beginning Latin 1 (**Critical Tracking**)	
LAT 1130	Accelerated Beginning Latin 1 (**Critical Tracking**)	
GRE 1120	Beginning Ancient Greek 1 (**Critical Tracking**)	
GRE 1130	Accelerated Beginning Ancient Greek 1 (or higher if placed out by SAT II; **Critical Tracking**) [1]	

Science Laboratory (Gen Ed Biological or Physical Sciences)		1
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14-15
Semester Four		
Select one:		3-5
LAT 1101	Beginning Latin 2 (**Critical Tracking**)	
LAT 1131	Accelerated Beginning Latin 2 (**Critical Tracking**)	
GRE 1121	Beginning Ancient Greek 2 (**Critical Tracking**)	
GRE 1131	Accelerated Beginning Ancient Greek 2 (**Critical Tracking**)	
Elective if placed out by SAT II [1]		
Gen Ed Biological Sciences		3
Gen Ed Social and Behavioral Sciences		6
Elective		3
	Credits	15-17
Semester Five		
LAT 1104	Beginning Latin 3 (if needed or elective)	3
Ancient Graeco-Roman World course (3000 level or above)		3
Electives (3000 level or above, not in major)		6
Elective		3
	Credits	15
Semester Six		
Ancient Graeco-Roman World courses (3000 level or above)		6
Gen Ed Composition; Writing Requirement		3
Electives (3000 level or above, not in major)		6
	Credits	15
Semester Seven		
Ancient Graeco-Roman World courses		6
Electives (3000 level or above, not in major)		6
Elective		3
	Credits	15
Semester Eight		
CLA 4931	Classics Capstone Seminar	3
Elective or honors thesis		3
Electives		10
	Credits	16
	Total Credits	120

[1] Students with prior Greek or Latin and an SAT II Latin score of 540 or higher, a 3 or higher on the AP Latin exam or a 4 or higher on the IB exam will begin with more advanced courses.

Academic Learning Compact

The Bachelor of Arts in classical studies, with specializations in classical civilization, ancient language, teacher certification or modern Greek studies provides a strong foundation in the liberal arts through study of the language, literature, monuments and history of ancient Greece and Rome. Students will develop linguistic, critical thinking and writing skills while gaining knowledge of classical civilization. Students also will explore the connection between the ancient and modern worlds and discover the contributions of classical culture to western civilization.

Before Graduating Students Must

- Successfully complete a department capstone course for majors.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Translate passages of Latin, ancient Greek or Modern Greek literature into English.

Critical Thinking

2. Recognize and explain the connection between the ancient and modern worlds and the contribution of Classical culture to Western civilization.

Communication

3. Write competently in Latin, ancient Greek, or Modern Greek using correct grammar and vocabulary of one or more of these languages. For Modern Greek, speak and comprehend competently.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Classical Civilization

Courses	SLO 1	SLO 2	SLO 3
CLA 2100, CLA 2120, CLA 3114	I	I	
CLA 3111, CLA 3151, CLA 3430, CLA 3500, CLA 3501, CLA 3791, CLA 3793, CLA 3930	R	R	R
CLA 3160, CLA 3700		I	
CLA 4173, CLA 4880		R	
CLA 4931 Capstone		A	
CLT 2044	I	I	
CLT 3102, CLA 3230, CLA 3291, CLA 3340		R	
CLT 3370, CLA 3371		I	

Greek, Ancient

Courses	SLO 1	SLO 2	SLO 3
GRE 1120, GRE 1121 and GRE 1130, GRE 1131	I		I
GRW 2200, GRW 2201, GRW 2250	R	I	R
GRW 3102, GRW 3300, GRW 3303, GRW 3501, GRW 4330, GRW 4340, GRW 4380, GRW 4700, GRW 4930	A	R	A

Greek, Modern

Courses	SLO 1	SLO 2	SLO 3
GRK 1120, GRK 1121 and GRK 1130, GRK 1131	I		I
GRK 2200, GRK 2201	R	I	R
GRK 4300	A	R	A

Latin

Courses	SLO 1	SLO 2	SLO 3
LAT 1120, LAT 1101, LAT 1104 and LAT 1130, LAT 1131	I		I
LNW 2321, LNW 2560, LNW 2630, LNW 2660	R	I	R
LNW 3220, LNW 3310, LNW 3320, LNW 3360, LNW 3380, LNW 3490, LNW 3644, LNW 3660, LNW 3930	A	R	A

Assessment Types

- Translations
- Group presentations
- Research papers

Classical Studies | Modern Greek

Classical studies is an interdisciplinary major, with specializations in ancient language, classical civilization, and teacher certification that offer students instruction in the history, literature, and culture of the ancient Greeks and Romans. These three specializations require proficiency in Latin or ancient Greek. A fourth specialization in modern Greek offers students instruction in the language, literature, and culture of modern Greece and requires proficiency in modern Greek.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** Ancient Language (p. 638) | Classical Civilization (p. 643) | Modern Greek (p. 648) | Teacher Certification (p. 652)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Classical Studies Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students who major in classical studies often pursue graduate studies in classical languages and literature, art history, ancient history, archaeology, comparative literature, and museum studies. Additional career opportunities are possible depending upon the specialization the student chooses. Small class sizes, emphasis on critical thinking and expression, and a faculty committed to involvement in lower-level undergraduate courses also make this major appealing to students who want excellent preparation for entry to professional schools (e.g., medicine or law).

Specializations

Ancient Language

The ancient language specialization is appropriate for students wishing to have direct contact with the literature and culture of the ancients, and for those who plan to do graduate study in Greek or Latin. Students interested in admission to competitive graduate programs need a minimum of three years of upper-division courses in ancient Greek or Latin and an additional year in the remaining language.

Classical Civilization

The classical civilization specialization is appropriate for those who desire a broad humanities background or are considering admission to graduate school in archaeology, ancient history or an unrelated field such as medicine or law. Students interested in admission to competitive graduate programs in archaeology or ancient history should consult the Department of Classics' undergraduate coordinator for information on specific requirements.

Modern Greek

The modern Greek specialization is appropriate for students wishing to have direct contact with the language, literature, and culture of modern Greece and a closer acquaintance with ancient and medieval Greek civilization. Students study in greater detail the numerous communities of the diaspora, which includes the large and flourishing Greek-American communities of Florida, their history and contemporary culture. By learning a modern European language, students can work in translation, education, services, tourism, the entertainment industry, and political or financial institutions with ties to Greece or Cyprus.

Teacher Certification

Students who want to be high-school Latin teachers should follow the teacher certification specialization. Students who pursue the Florida Teaching minor have the coursework and preparation for professional teacher certification in Florida when they graduate. Alternatively, students can consider a minor in educational studies that would be beneficial if applying to the ProTeach program. Students should consult the College of Education for more information.

Coursework for the Major

Students must complete 21-30 credits of coursework for the classical studies major; the total is dependent upon the specialization. Students must earn a minimum grade of C in a course for it to be applied to the major; no S/U courses can be applied. The Department of Classics requires that a minimum 15 credits of major-related courses be completed at the University of Florida.

All classical studies majors are also required to demonstrate proficiency in Latin, ancient Greek, or modern Greek, depending on the specialization. Credits earned in language courses are not included in the 21-30 credits of coursework for the major.

Overseas Studies

Students may participate in summer, semester, or academic year programs in Italy and Greece. Competitive scholarships for study abroad are available. Students in the modern Greek specialization are encouraged to participate in programs in Greece or Cyprus supported with competitive scholarships by the Center for Greek Studies and other organizations in the United States, Greece, and the European Union.

Placement

Refer to Placement Testing and Evaluation for information on placement into Latin.

Related Classical Studies Programs

- Classical Studies minor (p. 657)

Modern Greek

Required Coursework

Students in the modern Greek specialization are required to demonstrate proficiency in modern Greek by completing the beginning sequence of modern Greek (10 credits: GRK 1130 and GRK 1131) or (with department approval) the intermediate modern Greek sequence (3-6 credits).

In addition to demonstrating proficiency in modern Greek, students must complete 24 credits of coursework for the major:

- GRK 2200.
- Two courses at the 3000 level on the modern, medieval or ancient Greek world from the Department of Classics or approved courses from the departments of Anthropology, Art, European Studies, History, Philosophy, Political Science, Religion, and Women's Studies.
- Five courses in modern Greek, Byzantine Greek, ancient Greek or Latin at the 3000 level or above, of which at least two courses must be in modern Greek. Included in these five courses is CLA 4931.

Study-abroad programs are recommended and supported with scholarships for the cultivation of greater fluency in modern Greek.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=161200&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete one modern Greek course [1]
  Select the language based on the specialization chosen.
- 2.0 UF GPA required

Semester 3

- 2.0 UF GPA required

Semester 4

- Complete one additional modern Greek course with 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete two additional modern Greek courses with 2.5 critical-tracking GPA
- 2.0 UF GPA required

[1] At least two of these courses must be in modern Greek.

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). One of the two general education mathematics courses must be a pure math course.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
GRK 1130	Beginning Modern Greek 1 (**Critical Tracking**)	5
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	17
Semester Two		
GRK 1131	Beginning Modern Greek 2 (**Critical Tracking**)	5
Gen Ed Biological or Physical Sciences (area NOT taken in Semester 1)		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	14
Semester Three		
GRK 2200	Intermediate Modern Greek 1 (**Critical Tracking**)	3
CLA 2100	The Glory That Was Greece (recommended elective) [1]	3
Gen Ed Mathematics		3
Science Laboratory (Gen Ed Biological or Physical Sciences)		1
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
Gen Ed Biological Sciences		3
GRK 2201	Intermediate Modern Greek 2 (recommended elective) [1]	3
Select two electives: [1]		6
CLA 3114	Greece Today and Yesterday (recommended) [1]	
CLT 3930	Special Topics in Classical Literature (Greece in its European Context (recommended)) [1]	
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
Gen Ed Composition; Writing Requirement		3
Electives (3000 level or above, not in major)		6
Modern Greek or Byzantine Greek or Ancient Greek or Latin courses (3000 level or above; **Critical Tracking**) [1]		3
GRK 4300	Modern Greek Literature Since 1830 (recommended elective; or select an elective in Modern Greek or Byzantine Greek or Ancient Greek or Latin (3000 level or above); **Critical Tracking**) [1]	3
	Credits	15
Semester Six		
Electives (3000 level or above, not in major)		6
Modern, Medieval or Ancient Greek World course (3000 level or above)		3
Modern Greek or Byzantine Greek or Ancient Greek course (3000 level or above) [1]		3
Elective		3
	Credits	15
Semester Seven		
Electives (3000 level or above, not in major)		6
Modern Greek or Byzantine Greek or Ancient Greek course (3000 level or above) [1]		3
Modern, Medieval or Ancient Greek World course (3000 level or above)		3
Elective		3
	Credits	15
Semester Eight		
CLA 4931	Classics Capstone Seminar	3

Elective or honors thesis		3
Electives		7
	Credits	13
	Total Credits	120

[1] At least two of these courses must be in modern Greek.

Academic Learning Compact

The Bachelor of Arts in classical studies, with specializations in classical civilization, ancient language, teacher certification or modern Greek studies provides a strong foundation in the liberal arts through study of the language, literature, monuments and history of ancient Greece and Rome. Students will develop linguistic, critical thinking and writing skills while gaining knowledge of classical civilization. Students also will explore the connection between the ancient and modern worlds and discover the contributions of classical culture to western civilization.

Before Graduating Students Must

- Successfully complete a department capstone course for majors.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Translate passages of Latin, ancient Greek or Modern Greek literature into English.

Critical Thinking

2. Recognize and explain the connection between the ancient and modern worlds and the contribution of Classical culture to Western civilization.

Communication

3. Write competently in Latin, ancient Greek, or Modern Greek using correct grammar and vocabulary of one or more of these languages. For Modern Greek, speak and comprehend competently.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Classical Civilization

Courses	SLO 1	SLO 2	SLO 3
CLA 2100, CLA 2120, CLA 3114	I	I	
CLA 3111, CLA 3151, CLA 3430, CLA 3500, CLA 3501, CLA 3791, CLA 3793, CLA 3930	R	R	R
CLA 3160, CLA 3700		I	
CLA 4173, CLA 4880		R	
CLA 4931 Capstone		A	
CLT 2044	I	I	
CLT 3102, CLA 3230, CLA 3291, CLA 3340		R	
CLT 3370, CLA 3371		I	

Greek, Ancient

Courses	SLO 1	SLO 2	SLO 3
GRE 1120, GRE 1121 and GRE 1130, GRE 1131	I		I
GRW 2200, GRW 2201, GRW 2250	R	I	R
GRW 3102, GRW 3300, GRW 3303, GRW 3501, GRW 4330, GRW 4340, GRW 4380, GRW 4700, GRW 4930	A	R	A

Greek, Modern

Courses	SLO 1	SLO 2	SLO 3
GRK 1120, GRK 1121 and GRK 1130, GRK 1131	I		I
GRK 2200, GRK 2201	R	I	R
GRK 4300	A	R	A

Latin

Courses	SLO 1	SLO 2	SLO 3
LAT 1120, LAT 1101, LAT 1104 and LAT 1130, LAT 1131	I		I
LNW 2321, LNW 2560, LNW 2630, LNW 2660	R	I	R
LNW 3220, LNW 3310, LNW 3320, LNW 3360, LNW 3380, LNW 3490, LNW 3644, LNW 3660, LNW 3930	A	R	A

Assessment Types

- Translations
- Group presentations
- Research papers

Classical Studies | Teacher Certification

Classical studies is an interdisciplinary major, with specializations in ancient language, classical civilization, and teacher certification that offer students instruction in the history, literature, and culture of the ancient Greeks and Romans. These three specializations require proficiency in Latin or ancient Greek. A fourth specialization in modern Greek offers students instruction in the language, literature, and culture of modern Greece and requires proficiency in modern Greek.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** Ancient Language (p. 638) | Classical Civilization (p. 643) | Modern Greek (p. 648) | Teacher Certification (p. 652)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Classical Studies Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students who major in classical studies often pursue graduate studies in classical languages and literature, art history, ancient history, archaeology, comparative literature, and museum studies. Additional career opportunities are possible depending upon the specialization the student chooses. Small class sizes, emphasis on critical thinking and expression, and a faculty committed to involvement in lower-level undergraduate courses also make this major appealing to students who want excellent preparation for entry to professional schools (e.g., medicine or law).

Specializations

Ancient Language

The ancient language specialization is appropriate for students wishing to have direct contact with the literature and culture of the ancients, and for those who plan to do graduate study in Greek or Latin. Students interested in admission to competitive graduate programs need a minimum of three years of upper-division courses in ancient Greek or Latin and an additional year in the remaining language.

Classical Civilization

The classical civilization specialization is appropriate for those who desire a broad humanities background or are considering admission to graduate school in archaeology, ancient history or an unrelated field such as medicine or law. Students interested in admission to competitive graduate programs in archaeology or ancient history should consult the Department of Classics' undergraduate coordinator for information on specific requirements.

Modern Greek

The modern Greek specialization is appropriate for students wishing to have direct contact with the language, literature, and culture of modern Greece and a closer acquaintance with ancient and medieval Greek civilization. Students study in greater detail the numerous communities of the diaspora, which includes the large and flourishing Greek-American communities of Florida, their history and contemporary culture. By learning a modern European language, students can work in translation, education, services, tourism, the entertainment industry, and political or financial institutions with ties to Greece or Cyprus.

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Students who want to be high-school Latin teachers should follow the teacher certification specialization. Students who pursue the Florida Teaching minor have the coursework and preparation for professional teacher certification in Florida when they graduate. Alternatively, students can consider a minor in educational studies that would be beneficial if applying to the ProTeach program. Students should consult the College of Education for more information.

Coursework for the Major

Students must complete 21-30 credits of coursework for the classical studies major; the total is dependent upon the specialization. Students must earn a minimum grade of C in a course for it to be applied to the major; no S/U courses can be applied. The Department of Classics requires that a minimum 15 credits of major-related courses be completed at the University of Florida.

All classical studies majors are also required to demonstrate proficiency in Latin, ancient Greek, or modern Greek, depending on the specialization. Credits earned in language courses are not included in the 21-30 credits of coursework for the major.

Overseas Studies

Students may participate in summer, semester, or academic year programs in Italy and Greece. Competitive scholarships for study abroad are available. Students in the modern Greek specialization are encouraged to participate in programs in Greece or Cyprus supported with competitive scholarships by the Center for Greek Studies and other organizations in the United States, Greece, and the European Union.

Placement

Refer to Placement Testing and Evaluation for information on placement into Latin.

Related Classical Studies Programs

- Classical Studies minor (p. 657)

Teacher Certification

Required Coursework

Students in this specialization must demonstrate proficiency in Latin by fulfilling one of these four options:

1. 10 credits of beginning Latin:

Code	Title	Credits
Option 1 [1]		
LAT 1120	Beginning Latin 1	4
LAT 1101	Beginning Latin 2	3
LAT 1104	Beginning Latin 3	3
Option 2 [1]		
LAT 1130	Accelerated Beginning Latin 1	5
LAT 1131	Accelerated Beginning Latin 2	5

[1] Students with high school Latin complete the sequence based upon their score on the SAT II Latin test (or other placement mechanism).

2. A score of 3 or above in one of the AP Latin exams (Latin Literature or Vergil).
3. Completion of LNW 2630.
4. A 3000-level course in the original Latin literature.

In addition to demonstrating proficiency in Latin, students must complete 30 credits of coursework for the major:

- 24 credits of advanced Latin, including:
  - 9 credits in Latin vocabulary, grammar, and composition
  - 12 credits in Latin literature (not in translation)
  - 3 credits of CLA 4931

- Two courses on the ancient Roman world (not in English translation) from the Department of Classics or from the departments of Anthropology, Art, History, Philosophy, Political Science, and Religion. At least one of these must be 3000 level or above.
- Students planning to earn a state of Florida Latin teaching certificate need to make certain which courses dealing with Rome are appropriate for this option.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=161200&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete one Latin or ancient Greek course [1]
- 2.0 UF GPA required

Semester 3

- 2.0 UF GPA required

Semester 4

- Complete one additional Latin or ancient Greek course with 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete two additional Latin or ancient Greek courses with 2.5 critical-tracking GPA
- 2.0 UF GPA required

[1] Students with prior Greek or Latin and an SAT II Latin score of 540 or higher, a 3 or higher on the AP Latin exam or a 4 or higher on the IB exam will begin with more advanced courses.

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). One of the two general education mathematics courses must be a pure math course.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one: [1]		4-5
LAT 1120	Beginning Latin 1 (**Critical Tracking**) [1]	
LAT 1130	Accelerated Beginning Latin 1 (or higher if placed out by SAT II; **Critical Tracking**) [1]	
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16-17
Semester Two		
Select one: [1]		3-5
LAT 1101	Beginning Latin 2 (**Critical Tracking**) [1]	

LAT 1131	Accelerated Beginning Latin 2 (**Critical Tracking**) [1]	
Elective if placed out by SAT II [1]		
Gen Ed Biological or Physical Sciences (area NOT taken in Semester 1)		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
Elective		3
	Credits	15-17
Semester Three		
Select one: [1]		3
LAT 1104	Beginning Latin 3 [1]	
Elective [1,2]		
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Science Laboratory (Gen Ed Biological or Physical Sciences)		1
Gen Ed Social and Behavioral Sciences		3
	Credits	13
Semester Four		
Gen Ed Biological Sciences		3
Elective Latin course (**Critical Tracking**; 2000 level or higher vocabulary, grammar and composition)		3
Gen Ed Social and Behavioral Sciences		3
Electives		6
	Credits	15
Semester Five		
Gen Ed Composition; Writing Requirement		3
Electives for Florida Teaching minor (3000 level or above, not in major)		6
Latin course (**Critical Tracking**; 3000 level or higher vocabulary, grammar and composition)		3
Elective		3
	Credits	15
Semester Six		
Ancient Roman World course (3000 level or above)		3
Electives for Florida Teaching minor (3000 level or above, not in major)		6
Latin courses (3000 level or above vocabulary, grammar, and composition)		6
	Credits	15
Semester Seven		
Ancient Roman World course		3
Elective for Florida Teaching minor (3000 level or above, not in major)		3
Latin literature courses (3000 level or above, not in translation)		9
	Credits	15
Semester Eight		
CLA 4931	Classics Capstone Seminar	3
Latin literature courses (3000 level or above, not in translation)		3
Elective for Florida Teaching minor (3000 level or above, not in major)		3
Elective or honors thesis		3
Electives		4
	Credits	16
	Total Credits	120

1 Students with prior Greek or Latin and an SAT II Latin score of 540 or higher, a 3 or higher on the AP Latin exam or a 4 or higher on the IB exam will begin with more advanced courses.

2 If placed out by SAT II, or having taken LAT 1130, LAT 1131.

Academic Learning Compact

The Bachelor of Arts in classical studies, with specializations in classical civilization, ancient language, teacher certification or modern Greek studies provides a strong foundation in the liberal arts through study of the language, literature, monuments and history of ancient Greece and Rome. Students will develop linguistic, critical thinking and writing skills while gaining knowledge of classical civilization. Students also will explore the connection between the ancient and modern worlds and discover the contributions of classical culture to western civilization.

Before Graduating Students Must

- Successfully complete a department capstone course for majors.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Translate passages of Latin, ancient Greek or Modern Greek literature into English.

Critical Thinking

2. Recognize and explain the connection between the ancient and modern worlds and the contribution of Classical culture to Western civilization.

Communication

3. Write competently in Latin, ancient Greek, or Modern Greek using correct grammar and vocabulary of one or more of these languages. For Modern Greek, speak and comprehend competently.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Classical Civilization

Courses	SLO 1	SLO 2	SLO 3
CLA 2100, CLA 2120, CLA 3114	I	I	
CLA 3111, CLA 3151, CLA 3430, CLA 3500, CLA 3501, CLA 3791, CLA 3793, CLA 3930	R	R	R
CLA 3160, CLA 3700		I	
CLA 4173, CLA 4880		R	
CLA 4931 Capstone		A	
CLT 2044	I	I	
CLT 3102, CLA 3230, CLA 3291, CLA 3340		R	
CLT 3370, CLA 3371		I	

Greek, Ancient

Courses	SLO 1	SLO 2	SLO 3
GRE 1120, GRE 1121 and GRE 1130, GRE 1131	I		I
GRW 2200, GRW 2201, GRW 2250	R	I	R
GRW 3102, GRW 3300, GRW 3303, GRW 3501, GRW 4330, GRW 4340, GRW 4380, GRW 4700, GRW 4930	A	R	A

Greek, Modern

Courses	SLO 1	SLO 2	SLO 3
GRK 1120, GRK 1121 and GRK 1130, GRK 1131	I		I
GRK 2200, GRK 2201	R	I	R
GRK 4300	A	R	A

Latin

Courses	SLO 1	SLO 2	SLO 3
LAT 1120, LAT 1101, LAT 1104 and LAT 1130, LAT 1131	I		I
LNW 2321, LNW 2560, LNW 2630, LNW 2660	R	I	R

LNW 3220, LNW 3310, LNW 3320, LNW 3360, LNW 3380, LNW 3490, LNW 3644, LNW 3660, LNW 3930	A	R	A

Assessment Types

- Translations
- Group presentations
- Research papers

Classical Studies Minor

The College of Liberal Arts and Sciences is the largest college on campus, with more than 10,000 undergraduate students pursuing a variety of disciplines through its 33 majors and 48 minors. Undergraduate students acquire an intellectual foundation based on a well-rounded and comprehensive education designed for an increasingly technological and rapidly changing society.

Contact

Office of the Dean
2014 Turlington Hall
P.O Box 117300
Gainesville FL 32611-7300

352.392.0780

Map (http://campusmap.ufl.edu/?loc=0267) More Info (http://www.clas.ufl.edu)

Academic Advising Center (AAC)
Farrior Hall
205 Fletcher Drive

P.O. Box 112015
University of Florida
Gainesville, FL 32611-2015

352.392.1521

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Additional Information**
- **Related Classical Studies Programs**

The minor consists of five Greek, Latin, or classics courses. At least nine of these credits must be in courses at the 3000 level or above. Of the total credits, no more than three may be individual work.

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
Greek, Latin, or classics courses (1000/2000 level)		6
Greek, Latin, or classics courses (3000/4000 level)		9
Total Credits		15

Related Classical Studies Programs

- Bachelor of Arts in Classical Studies (p. 635)

Communication Studies Minor

Effective communication skills at the personal and professional levels are essential prerequisites for success in today's world. The communication studies minor provides an interdisciplinary forum for the study of communication and the opportunity for students to add indispensable tools to their educational program.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C and no optional S-U
- **Contact:** 402 Rolfs Hall (http://campusmap.ufl.edu/?loc=0012) | 352.392.5421
- **Additional Information**

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

No more than three credits of SPC 4905, SPC 2594 (prerequisite required) or RTV 3405 may substitute for a 3000-level course.

Required Courses

Code	Title	Credits
Select two:		6
COM 1000	Introduction to Communication Studies	
SPC 2300	Introduction to Interpersonal Communication	
SPC 2608	Introduction to Public Speaking	
COM or SPC course within the Dial Center [1]		3
COM or SPC courses within the Dial Center (3000/4000 level) [1]		9
Total Credits		18

[1] SPC 3605 and SPC 4680 are not accepted for the communication studies minor.

Computer Science UF Online

This program combines the study of computer science with a liberal arts education. It prepares students for employment as computing professionals while offering significant freedom to choose coursework in other areas. The major is especially popular with students who want the technical education in computer science with the flexibility to take other non-technical courses, sometimes in the form of a minor or certificate.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Computer Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Computer science majors in CLAS take a solid foundation of core computer science courses while fulfilling requirements for a liberal arts education, including courses from the humanities, social and behavioral sciences, and the study of a foreign language. Questions about the major should be directed to a department advisor.

Coursework for the Major

This major requires a minimum of 29 credits in foundation coursework, 35 credits in core coursework and 6 credits of major electives. A student can request to transfer in a maximum of four courses toward required core Computer Science or required Computer Science elective coursework, dependent upon courses being deemed equivalent by the department. Course equivalency requests should begin with the department advising office, followed by the undergraduate coordinator.

Students must earn minimum grades of C in coursework for the major. An exit interview is required in the last semester.

Code	Title	Credits
Required Foundation Coursework		
ENC 3246	Professional Communication for Engineers	3

or ENC 2210	Technical Writing	
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
MAS 3114	Computational Linear Algebra	3
Select one:		4-5
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
Select one:		4-5
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
STA 3032	Engineering Statistics	3
Required Core Coursework		
CDA 3101	Introduction to Computer Organization	3
CEN 3031	Introduction to Software Engineering	3
COP 3502	Programming Fundamentals 1	3
COP 3503	Programming Fundamentals 2	3
CIS 4301	Information and Database Systems 1	3
CIS 4914	Senior Project	3
COP 3530	Data Structures and Algorithm	4
COP 4600	Operating Systems	3
COT 3100	Applications of Discrete Structures	3
COT 4501	Numerical Analysis: a Computational Approach	3
EEL 3701C	Digital Logic and Computer Systems [1]	4
Required Major Electives [2]		6
Any 4000-level or higher CISE course, beyond the Core Requirements		
CIS 4940	Practical Work (Internship)	
EGN 4912	Engineering Directed Independent Research	
Total Credits		70-72

1 Not expected to be developed for online delivery; substitute EGN 4641 and EGS 4034. Please see department advisor to process the substitution.

2 Students should check prerequisites when planning their major electives. Students should discuss electives with an advisor in the department. Individual study, co-op, internship, research, and special topics credits must be approved by an advisor in the department.

Placement

Students who have scored at least a 4 on the AP Computer Science A exam are eligible to start the programming fundamentals sequence with COP 3503. Students will need to consult an advisor in the major to adjust their degree audit.

Related Computer Science Programs

- Bachelor of Science in Computer Science, CLAS (p. 662)
- Bachelor of Science in Computer Science, College of Engineering (p. 1281)
- Computer and Information Science and Engineering minor (p. 1276)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=110101&track=01) may be used for transfer students.

Semester 1

- Complete MAC 1147 or MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete MAC 2311
- 2.0 UF GPA required

Semester 3

- Complete MAC 2312
- 2.0 UF GPA required

Semester 4

- Complete MAC 2313; and PHY 2053/PHY 2053L or PHY 2048/PHY 2048L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete COP 3502; and PHY 2054/PHY 2054L or PHY 2049/PHY 2049L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

ENC 3246, MAC 2312, MAC 2313, PHY 2049, PHY 2049L, PHY 2054, PHY 2054L, STA 3032, MAS 3114, and MAS 4105 may count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (Writing Requirement)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	13
Semester Two		
COP 3502	Programming Fundamentals 1 (**Critical Tracking**)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3-4
PHY 2053	Physics 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
Select one:		1
PHY 2053L	Laboratory for Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2048L	Laboratory for Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
Gen Ed Social and Behavioral Sciences		3
	Credits	14-15
Semester Three		
COP 3503	Programming Fundamentals 2	3
COT 3100	Applications of Discrete Structures (Gen Ed Mathematics)	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3-4

PHY 2054	Physics 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
Select one:		1
PHY 2054L	Laboratory for Physics 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2049L	Laboratory for Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
	Credits	14-15
Semester Four		
CDA 3101	Introduction to Computer Organization	3
COP 3530	Data Structures and Algorithm	4
Elective		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Five		
CEN 3031	Introduction to Software Engineering	3
ENC 3246	Professional Communication for Engineers (Gen Ed Composition)	3
Gen Ed Biological Sciences		3
Foreign language		4-5
Elective		3
	Credits	16-17
Semester Six		
EEL 3701C	Digital Logic and Computer Systems	4
MAS 3114	Computational Linear Algebra	3
Gen Ed Biological Sciences		3
Gen Ed Humanities		3
Foreign language		3-5
	Credits	16-18
Semester Seven		
CIS 4301	Information and Database Systems 1	3
CISE elective		3
COT 4501	Numerical Analysis: a Computational Approach	3
Foreign language course (or elective if 4-3-3 option)		3
Elective		3
	Credits	15
Semester Eight		
CIS 4914	Senior Project	3
CISE elective		3
COP 4600	Operating Systems	3
STA 3032	Engineering Statistics (Gen Ed Mathematics)	3
Electives		4
	Credits	16
	Total Credits	120

Academic Learning Compact

The College of Liberal Arts and Sciences' computer science program exposes students to a broad range of disciplines, including programming languages, theory of computer science, physical science, mathematics and software engineering. Students will graduate with the ability to apply knowledge of science and mathematics to computer science problems, to design computer systems or components to satisfy users' needs and to communicate technical information regarding computer systems to other computer scientists. This program emphasizes the broader aspects of computer science and is less technical in depth than the computer science program in the Herbert Wertheim College of Engineering.

Before Graduating Students Must

- Pass assessment according to department rubric of student performance on a major design experience.
- Pass assessment in one or more core courses or individual assignments targeted to each SLO.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics and science to computer science problems.
2. Design a computing system, component or process, analyzing and interpreting the data.
3. Use the techniques, skills and tools necessary for computer science practice.

Critical Thinking

4. Design a computing system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, and health and safety constraints.
5. Identify, formulate and solve computer science problems.

Communication

6. Communicate technical data and design information effectively in writing, in speech and in multidisciplinary teams to other computer scientists.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
CDA 3101	R		R	R	R	
CEN 3031						I, A
CIS 4914	A	A	A	A	A	A
COP 3504			I	I	I	
COP 3530	R		R		R	
COP 4600			A	R		
COT 3100	I		R			
COT 4501	A	I, A			R	

Assessment Types

- Written assignments
- Exams
- Oral reports/presentations
- Exit survey

Computer Science | CLAS

This program combines the study of computer science with a liberal arts education. It prepares students for employment as computing professionals while offering significant freedom to choose coursework in other areas. The major is especially popular with students who want the technical education in computer science with the flexibility to take other non-technical courses, sometimes in the form of a minor or certificate.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Computer Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Computer science majors in CLAS take a solid foundation of core computer science courses while fulfilling requirements for a liberal arts education, including courses from the humanities, social and behavioral sciences, and the study of a foreign language. Questions about the major should be directed to a department advisor.

Coursework for the Major

This major requires a minimum of 29 credits in foundation coursework, 35 credits in core coursework, and 6 credits of major electives. A student can transfer in a maximum of four courses toward required core or required major elective coursework. Students must earn minimum grades of C in coursework for the major. An exit interview is required in the student's last semester.

A student can request to transfer in a maximum of four courses toward required core Computer Science or required Computer Science elective coursework, dependent upon courses being deemed equivalent by the Department. Course equivalency requests should begin with the department advising office, followed by the undergraduate coordinator.

Students must earn minimum grades of C in coursework for the major. An exit interview is required in the student's last semester.

Code	Title	Credits
Required Foundation Coursework		
ENC 3246	Professional Communication for Engineers	3
or ENC 2210	Technical Writing	
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
MAS 4105	Linear Algebra 1	3-4
or MAS 3114	Computational Linear Algebra	
Select one:		4-5
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
Select one:		4-5
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
STA 3032	Engineering Statistics	3
Required Core Coursework		
CDA 3101	Introduction to Computer Organization	3
CEN 3031	Introduction to Software Engineering	3
COP 3502	Programming Fundamentals 1	3
COP 3503	Programming Fundamentals 2	3
CIS 4301	Information and Database Systems 1	3
CIS 4914	Senior Project	3
or CIS 4913C	Integrated Product and Process Design 2	
COP 3530	Data Structures and Algorithm	4
COP 4600	Operating Systems	3
COT 3100	Applications of Discrete Structures	3
COT 4501	Numerical Analysis: a Computational Approach	3
or MAD 4401	Introduction to Numerical Analysis	
EEL 3701C	Digital Logic and Computer Systems [1]	4
Required Major Electives [2]		6
Any 4000-level or higher CISE course, beyond the Core Requirements		
CIS 4940	Practical Work (Internship, 1 credit, repeatable up to 3 credits)	
EGN 4912	Engineering Directed Independent Research (0-3 credits)	
EEL 3744C	Microprocessor Applications	
EEL 4712C	Digital Design	
EEL 4713C	Digital Computer Architecture	
Total Credits		70-73

1. Students may substitute EGN 4641 and EGS 4034. Please see department advisor to request the substitution.
2. Students should check prerequisites when planning their major electives. Students should discuss electives with an advisor in the department. Individual study, co-op, internship, research, and special topics credits must be approved by an advisor in the department.

Combined Degree Program

The computer science combined degree program is a joint program between the colleges of Engineering and Liberal Arts and Sciences, and is coordinated by the Department of Computer and Information Science and Engineering.

Placement

Students who have scored at least a 4 or 5 on the AP Computer Science exam are eligible to start the programming fundamentals sequence with COP 3503. Students will need to see an advisor in the major to adjust their degree audit.

Related Computer Science Programs

- Combined Degree (p. 1400)
- Bachelor of Science in Computer Science, College of Engineering (p. 1281)
- Bachelor of Science in Computer Science, UF Online (p. 658)
- Computer and Information Science and Engineering minor (p. 1276)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=110101&track=01) may be used for transfer students.

Semester 1

- Complete MAC 1147 or MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete MAC 2311
- 2.0 UF GPA required

Semester 3

- Complete MAC 2312
- 2.0 UF GPA required

Semester 4

- Complete MAC 2313; and PHY 2053/PHY 2053L or PHY 2048/PHY 2048L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete COP 3502; and PHY 2054/PHY 2054L or PHY 2049/PHY 2049L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

ENC 3246, MAC 2312, MAC 2313, PHY 2049, PHY 2049L, PHY 2054, PHY 2054L, STA 3032, MAS 3114, and MAS 4105 may count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
COP 3502	Programming Fundamentals 1 (**Critical Tracking**)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	13
Semester Two		
COP 3503	Programming Fundamentals 2	3
COT 3100	Applications of Discrete Structures (Gen Ed Mathematics)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3-4
PHY 2053	Physics 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
Select one:		1
PHY 2053L	Laboratory for Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2048L	Laboratory for Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
	Credits	14-15
Semester Three		
COP 3530	Data Structures and Algorithm	4
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3-4
PHY 2054	Physics 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
Select one:		1
PHY 2054L	Laboratory for Physics 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2049L	Laboratory for Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15-16
Semester Four		
CDA 3101	Introduction to Computer Organization	3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		6
Elective		3
	Credits	15
Semester Five		
CEN 3031	Introduction to Software Engineering	3
ENC 3246	Professional Communication for Engineers (Gen Ed Composition)	3
Gen Ed Biological Sciences		3
Foreign language		4-5
Elective		3
	Credits	16-17
Semester Six		
EEL 3701C	Digital Logic and Computer Systems	4
MAS 3114 or MAS 4105	Computational Linear Algebra or Linear Algebra 1	3-4
Gen Ed Biological Sciences		3
Foreign language		3-5
	Credits	13-16
Semester Seven		
CIS 4301	Information and Database Systems 1	3
CISE elective		3
COT 4501	Numerical Analysis: a Computational Approach	3
Elective		3
Foreign language course (or elective if 4-3-3 option)		3
Gen Ed Humanities		3
	Credits	18
Semester Eight		
CIS 4914	Senior Project	3

COP 4600	Operating Systems	3
STA 3032	Engineering Statistics (Gen Ed Mathematics)	3
CISE elective		3
Elective		4
	Credits	16
	Total Credits	120

Academic Learning Compact

The College of Liberal Arts and Sciences' computer science program exposes students to a broad range of disciplines, including programming languages, theory of computer science, physical science, mathematics and software engineering. Students will graduate with the ability to apply knowledge of science and mathematics to computer science problems, to design computer systems or components to satisfy users' needs and to communicate technical information regarding computer systems to other computer scientists. This program emphasizes the broader aspects of computer science and is less technical in depth than the computer science program in the Herbert Wertheim College of Engineering.

Before Graduating Students Must

- Pass assessment according to department rubric of student performance on a major design experience.
- Pass assessment in one or more core courses or individual assignments targeted to each SLO.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics and science to computer science problems.
2. Design a computing system, component or process, analyzing and interpreting the data.
3. Use the techniques, skills and tools necessary for computer science practice.

Critical Thinking

4. Design a computing system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, and health and safety constraints.
5. Identify, formulate and solve computer science problems.

Communication

6. Communicate technical data and design information effectively in writing, in speech and in multidisciplinary teams to other computer scientists.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
CDA 3101	R		R	R	R	
CEN 3031						I, A
CIS 4914	A	A	A	A	A	A
COP 3504			I	I	I	
COP 3530	R		R		R	
COP 4600			A	R		
COT 3100	I		R			
COT 4501	A	I, A			R	

Assessment Types

- Written assignments
- Exams
- Oral reports/presentations
- Exit survey

Criminology

The Department of Sociology and Criminology offers the largest interdisciplinary degree program at UF. Students seeking a degree in criminology will study the complexities of relationships among the legal, social, political, historical, and psychological influences affecting law processes and crime and justice.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Criminology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Courses focus on explanations for the development of law within society, why people break laws and how society reacts to law-breaking. Interdisciplinary breadth in the study of criminology is essential for those majoring in criminology. Majors may enroll in relevant courses offered outside the department to help satisfy tracking requirements (listed below under Foundation Coursework).

After obtaining a B.A. in criminology, students can seek careers as professionals working within the criminal or juvenile justice systems (i.e., courts, law enforcement, corrections). Many students also attend law school, while others attend graduate school where they may conduct research on criminological issues.

Coursework for the Major

The major requires 34 credits. At least 22 of the 34 must be taken at UF in courses offered by the department with prefixes of CCJ, CJC, CJE, CJJ, or CJL. Students may apply no more than 6 credits of 1000/2000-level coursework to the major.

A maximum of 12 credits of criminology courses can be transferred toward the major. Students who transfer six credits of 1000/2000-level (lower division) credits into the major should not take CJL 2000 (https://catalog.ufl.edu/search/?P=CJL%202000). There are restrictions on which lower-division courses will transfer to the major. Lower-division courses that transfer into the major include introductory courses on criminology, criminal justice and criminal law/procedure. Students who wish to take interdisciplinary courses **and** transfer credits from another institution need to be careful about the 22-credit residency requirement.

Lower-division courses that transfer into the major include introductory courses on criminology, criminal justice and criminal law/ procedure. Students who wish to take interdisciplinary courses **and** transfer credits from another institution need to be careful about the 22- credit residency requirement.

Minimum grades of C must be earned in courses that count toward the major. The only exceptions are CCJ 4940 (https://catalog.ufl.edu/search/?P=CCJ%204940) and CCJ 4905 which require grades of S.

Code	Title	Credits
Foundation (Tracking) Coursework		
In the first four terms, students enroll in criminology-related foundation courses, which include:		
STA 2023	Introduction to Statistics 1	3
Select one option:		9
Option A: Select 9 credits of introductory criminal justice/criminology courses (CCJ, CJL or CJE prefixes), including:		
CCJ 3024	Advanced Principles of Criminal Justice	
CJL 2000	Law and the Legal Process	
CJL 3038	Law and Society	
Option B: Select 9 credits from the following or their equivalents:		
AMH 2010	United States to 1877	
AMH 2020	United States Since 1877	
ANT 2000	General Anthropology	
ANT 2410	Cultural Anthropology	
ECO 2013	Principles of Macroeconomics	
ECO 2023	Principles of Microeconomics	
PHI 2010	Introduction to Philosophy	
PHI 2630	Contemporary Moral Issues	
POS 2041	American Federal Government	
POS 2112	American State and Local Government	
PSY 2012	General Psychology	
SYG 2000	Principles of Sociology	
SYG 2010	Social Problems	

Required Coursework

Criminology Core Courses		
CCJ 3024	Advanced Principles of Criminal Justice [1]	3
CCJ 3701	Research Methods in Criminology [1]	4
CCJ 4014	Criminological Theory [1]	3
CJL 3038	Law and Society [1]	3
Select at least one law-driven requirement course:		
CJL 2000	Law and the Legal Process [2]	
CJL 4050	Juvenile Law	
CJL 4110	Criminal Law	
CJL 4410	Criminal Procedure	
Criminology Electives		
Select a minimum of 18 credits [3]		18
Students may select up to 9 additional credits from approved interdisciplinary courses outside of criminology. [4]		0-9
Statistics Course Requirement		
STA 2023	Introduction to Statistics 1	3
Total Credits		46-55

1. These courses are the basis for meeting the student learning outcomes in the major's academic learning compact, therefore they must be taken at UF.
2. Students should take this course only if they have not already completed six credits of 1000/2000-level criminology courses.
3. Majors may choose from any course offered in the department not used to meet this requirement.
4. These approved interdisciplinary courses may also apply to the CLAS electives requirement. These courses do **not** apply toward the 22-credit residency requirement.

Students may apply only three credits of CCJ 4940 or CCJ 4905 and 3 credits of CCJ 4911 to the 34 credits for the major. CCJ 4940 and CCJ 4905 are graded S/U, CCJ 4911 may be taken either S/U or for a letter grade. Note, however, that no more than 3 credits of S/U work coming from either may be applied to the major.

Exit Exam Requirement

To complete the major students must pass a department exit examination regarding crime, criminal justice, law and society, and criminological theory, administered online.

Recommended Coursework

Students who meet CLAS honors criteria (3.5 upper-division GPA) may take up to six credits in CCJ 4970 or enroll in up to two graduate seminars as honors courses, depending on instructor permission and course availability. However, students should keep in mind the tuition differences between undergraduate and graduate credits.

Combined Degree Programs

The opportunity to get an early start on graduate work by enrolling in graduate credits exists in a combined B.A./M.A. program. Interested students must apply and be accepted to the undergraduate phase (so that graduate credits can count toward the major to earn the B.A. degree). Independently, they also must apply for admission to the graduate phase and compete with all other applicants for admission to a limited number of openings each fall.

Overseas Studies

The major has no affiliated overseas programs. Criminology majors, however, frequently study abroad and can often transfer credits to the major.

Placement

CCJ 3024 is a prerequisite or corequisite for most of the other courses in the major. During advanced registration, there may be restrictions placed on lower-division students for registration in many upper-division courses to make sure juniors and seniors get the credits they need to graduate on time.

Research

Majors may pursue original research through the upper-division honors program in the major, especially via senior thesis credits (CCJ 4970). Others pursue independent research through Undergraduate Research in Criminology (CCJ 4911). The major also offers a research internship (CCJ 4940), which enables students to work in ongoing research projects.

Related Criminology Programs

- Bachelor of Arts in Criminology, UF Online (p. 672)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450401&track=01) may be used for transfer students.

Semester 1

- Complete 1 criminology-related foundation course (criminology-related foundation courses include introductory criminal justice and criminology courses -- CCJ, CJL, or CJE prefixes, such as CCJ 3024, CJL 2000, CJL 3038 -- or related courses: AMH 2010, AMH 2020, ANT 2000, ANT 2410, ECO 2013, ECO 2023, PHI 2010, PHI 2630, POS 2041, POS 2112, PSY 2012, SYG 2000, SYG 2010).
- 2.3 UF GPA required

Semester 2

- Complete 1 additional criminology-related foundation course
- 2.5 UF GPA required

Semester 3

- Complete 1 additional criminology-related foundation course with 2.65 critical-tracking GPA
- 2.65 UF GPA required

Semester 4

- Complete STA 2023 with a 2.75 critical-tracking GPA
- 2.8 UF GPA required

Semester 5

- Complete CCJ 3024 (if not previously taken) and maintain 2.75 critical-tracking GPA
- 2.80 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

Up to 9 hours of approved Criminology electives outside of the Criminology department may also count towards the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Criminology-related course (**Critical Tracking**)		3
Foreign language		4-5
	Credits	13-14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
CCJ 3024	Advanced Principles of Criminal Justice (**Critical Tracking**; recommended; or other criminology-related course)	3

State Core Gen Ed Mathematics (p. 23)		3
Foreign language		3-5
Elective		4
	Credits	16-18
Semester Three		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Criminology-related course (**Critical Tracking**)		3
State Core Gen Ed Humanities (p. 23)		3
Elective (or foreign language if 4-3-3 option)		3
Elective		4
	Credits	16
Semester Four		
Gen Ed Biological or Physical Sciences (area NOT taken in semester 1)		3
Gen Ed Humanities		3
Science Laboratory (Gen Ed Biological or Physical Sciences)		1
State Core Gen Ed Social and Behavioral Sciences (p. 23) (if needed; several criminology-related courses meet this requirement)		3
Electives		5-6
	Credits	15-16
Semester Five		
CCJ 3024	Advanced Principles of Criminal Justice (**Critical Tracking**; if not taken previously; Gen Ed Social and Behavioral Sciences)	3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Approved Criminology elective		3
Elective (3000 level or above, not in major)		3
	Credits	15
Semester Six		
Criminology core courses		6-7
Approved Criminology electives		6
Elective (3000 level or above, not in major)		3
	Credits	15-16
Semester Seven		
Criminology core course		3-4
Approved Criminology elective		3
Electives (3000 level or above, not in major)		6
Gen Ed Physical Sciences		3
	Credits	15-16
Semester Eight		
Criminology core course		3
Approved Criminology electives		6
Electives (3000 level or above, not in major)		6
	Credits	15
	Total Credits	120

Approved Electives

Choose any CCJ, CJE, CJL, or CJJ elective and up to 9 credits from these approved interdisciplinary courses.

Code	Title	Credits
AEB 4085	Agricultural Risk Management and the Law	3
AMH 3551	Constitutional History of the United States to 1877	3
AMH 3552	Constitutional History of the United States Since 1877	3
AMH 3558	United States Legal History	3
AMH 4316	Violence and Social Conflict in American History	3
AMH 4319	Crime and Punishment in American History	3
AMH 4550	Origins of the U.S. Constitution	3
ANT 3451	Race and Racism	3
ANT 3520	Skeleton Keys: Forensic Identification	3
ANT 4273	Anthropology of Law	3
ANT 4740	Introduction to Forensic Science	3
BUL 4310	The Legal Environment of Business	4
ECP 4451	Law and Economics	4

ENC 3464	Writing in the Social Sciences	3
ENC 3465	Writing in the Law	3
LEI 4800	Legal Aspects of Tourism, Events and Recreation	3
MDU 4031	Medicine and the Law	3
MMC 4200	Law of Mass Communication	3
PAD 3003	Introduction to Public Administration	3
POS 3603	American Constitutional Law	3
POS 3606	American Civil Liberties	3
POS 4624	Race, Law and the Constitution	3
SPM 4723	Legal Issues in Sport and Physical Activity	3
STA 3024	Introduction to Statistics 2	3
STA 4222	Sample Survey Design	3
SYP 3510	Deviance	3
SYP 4550	Alcohol, Drugs and Society	3
URP 4882	Defensible Space and CPTED in Urban Design	3

Academic Learning Compact

The Bachelor of Arts in criminology (both the on campus and the online degree programs) introduces students to the study of criminal behavior, criminal justice systems from a multidisciplinary, liberal arts perspective. It enables students to understand crime, how society reacts to it (especially through the criminal justice system) and the interrelationships between features of society and law. It includes learning about the theories of crime and methods for studying crime, law and society.

Before Graduating Students Must

- Pass a department exit examination regarding crime, criminal justice, law and society and criminological theory.
- Complete a research paper for CCJ 3701 demonstrating the ability to research and to interpret research in criminology, law and society.
- Complete requirements for the baccalaureate degree as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Define and describe the criminal justice system, the interrelationships among its components and their fit with society.
2. Define and describe the legal institutions, the law and their interaction in society.

Critical Thinking

3. Analyze theories of crime and their implications for programs and policies to reduce crime.
4. Interpret and evaluate research in criminology, law and society and exhibit proficiency in the techniques used to conduct such research.

Communication

5. Communicate ideas clearly and effectively in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
CCJ 3024	I, R, A				
CCJ 3038		I, R, A			
CCJ 3701				I, R, A	I, R, A
CCJ 4014			I, R, A		

Assessment Types

- Exams
- Papers

Criminology UF Online

The Department of Sociology and Criminology offers an online interdisciplinary degree program in criminology. Students seeking this degree will study the complexities of relationships among the legal, social, political, historical, and psychological influences affecting law processes and crime and justice.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Criminology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Courses focus on explanations for the development of law within society, why people break laws, and how society reacts to law-breaking. Interdisciplinary breadth in the study of criminology and law is essential for those majoring in criminology. Majors may enroll in relevant courses offered outside the department to help satisfy tracking requirements (listed below under Foundation Coursework).

After obtaining a B.A. in criminology, students can seek careers as professionals working within the criminal or juvenile justice systems (i.e., courts, law enforcement, corrections). Many students also attend law school, while others attend graduate school where they may conduct research on criminological issues.

After being accepted to this program, students can pursue the degree without moving to Gainesville. Coursework will be offered via electronic distance learning, and UF faculty will teach and advise students in the program. This program is designed to be pursued entirely online, and thus, students will not be permitted to take any courses on campus while enrolled in the program.

Students will need access to a personal computer capable of connecting to the web and sending and receiving electronic mail. It is recommended but not required that the student's computer have a video conferencing capability.

Coursework for the Major

The major requires 34 credits. At least 22 of the 34 must be taken from UF in courses offered by the department with prefixes of CCJ, CJC, CJE, CJJ or CJL. Students may apply no more than six credits of 1000/2000-level coursework to the major, including CJL 2000.

A maximum of 12 credits of criminology courses can be transferred toward the major. Students who transfer six credits of 1000/2000-level (lower division) credits into the major should not take UF's CJL 2000. There are restrictions on which lower-division courses will transfer to the major. Lower-division courses that transfer into the major include introductory courses on criminology, criminal justice and criminal law/procedure. Students who wish to take interdisciplinary courses **and** transfer credits from another institution need to be careful about the 22-credit residency requirement.

Minimum grades of C must be earned in courses that count toward the major. The only exceptions are CCJ 4940 and CCJ 4905 which require grades of S.

Code	Title	Credits
Foundation (Tracking) Coursework		
In the first four terms, students enroll in criminology-related foundation courses, which include:		
STA 2023	Introduction to Statistics 1	3
Select one option:		9
Option A		
Select 9 credits of introductory criminal justice/criminology courses (CCJ, CJL or CJE prefixes), including:		
CCJ 3024	Advanced Principles of Criminal Justice	
CJL 2000	Law and the Legal Process	
CJL 3038	Law and Society	
Option B		
Select 9 credits from the following or their equivalents:		
AMH 2010	United States to 1877	
AMH 2020	United States Since 1877	
ANT 2000	General Anthropology	
ANT 2410	Cultural Anthropology	
ECO 2013	Principles of Macroeconomics	
ECO 2023	Principles of Microeconomics	
PHI 2010	Introduction to Philosophy	

PHI 2630	Contemporary Moral Issues	
POS 2041	American Federal Government	
POS 2112	American State and Local Government	
PSY 2012	General Psychology	
SYG 2000	Principles of Sociology	
SYG 2010	Social Problems	
Required Coursework		
Criminology Core Courses		
CCJ 3024	Advanced Principles of Criminal Justice [1]	3
CCJ 3701	Research Methods in Criminology [1]	4
CCJ 4014	Criminological Theory [1]	3
CJL 3038	Law and Society [1]	3
Select at least one law-driven requirement course:		3
CJL 2000	Law and the Legal Process [2]	
CJL 4050	Juvenile Law	
CJL 4110	Criminal Law	
CJL 4410	Criminal Procedure	
Criminology Electives		
Select a minimum of 18 credits [3]		18
Students may select up to 9 credits from approved interdisciplinary courses outside of criminology to count toward the criminology electives requirement [4]		0-9
Total Credits		46-55

1. These courses are the basis for meeting the student learning outcomes in the major's academic learning compact, therefore they must be taken at UF.
2. Students should take this course only if they have not already completed six credits of 1000/2000-level criminology courses.
3. Majors may choose from any course offered in the department not used to meet this requirement.
4. These approved interdisciplinary courses may also apply to the CLAS electives requirement. These courses do **not** apply toward the 22-credit residency requirement. A list of the *approved interdisciplinary courses* appears below the recommended semester plan.

Students may apply only three credits of CCJ 4940 (https://catalog.ufl.edu/search/?P=CCJ%204940) or CCJ 4905 and 3 credits of CCJ 4911 (https://catalog.ufl.edu/search/?P=CCJ%204911) to the 34 credits for the major. CCJ 4940 (https://catalog.ufl.edu/search/?P=CCJ%204940) and CCJ 4905 are graded S/U; CCJ 4911 (https://catalog.ufl.edu/search/?P=CCJ%204911) may be taken either S/U or for a letter grade. Note, however, that no more than 3 credits of S/U work coming from either may be applied to the major.

Additional Requirements

Exit Exam Requirement

To complete the major students must pass a department exit examination regarding crime, criminal justice, law and society, and criminological theory, administered online.

Related Criminology Programs

- Bachelor of Arts in Criminology (p. 667)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450401&track=01) may be used for transfer students.

Semester 1

- Complete 1 criminology-related foundation course (criminology-related foundation courses include introductory criminal justice and criminology courses -- CCJ, CJL or CJE prefixes, such as CCJ 3024, CJL 2000, CJL 3038 -- or related courses: AMH 2010, AMH 2020, ANT 2000, ANT 2410, ECO 2013, ECO 2023, PHI 2010, PHI 2630, POS 2041, POS 2112, PSY 2012, SYG 2000, SYG 2010)
- 2.3 UF GPA required

Semester 2

- Complete 1 additional criminology-related foundation course
- 2.5 UF GPA required

Semester 3

- Complete 1 additional criminology-related foundation course with 2.65 critical-tracking GPA
- 2.65 UF GPA required

Semester 4

- Complete STA 2023 with a 2.75 critical-tracking GPA
- 2.8 UF GPA required

Semester 5

- Complete CCJ 3024 (if not previously taken) and maintain 2.75 critical-tracking GPA
- 2.80 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

Up to 9 hours of approved Criminology electives outside of the Criminology department may also count towards the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Criminology-related course (**Critical Tracking**)		3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (Writing Requirement)		3
Foreign language		4-5
	Credits	13-14
Semester Two		
CCJ 3024	Advanced Principles of Criminal Justice (**Critical Tracking**; recommended))	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Mathematics (p. 23)		3
Foreign language		3-5
Elective		4
	Credits	16-18
Semester Three		
Criminology-related course (**Critical Tracking**)		3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; recommended; Gen Ed Mathematics)	3
State Core Gen Ed Humanities (p. 23)		3
Elective (or foreign language if 4-3-3 option)		3
Elective		4
	Credits	16
Semester Four		
Gen Ed Biological or Physical Sciences (area not taken in semester one)		3
Gen Ed Humanities		3
State Core Gen Ed Social and Behavioral Sciences (p. 23) (if needed; several criminology-related courses meet this requirement)		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Electives		5-6
	Credits	15-16

Semester Five		
CCJ 3024	Advanced Principles of Criminal Justice (**Critical Tracking**; if not taken previously; Gen Ed Social and Behavioral Sciences)	3
Gen Ed Biological Sciences		3
Gen Ed Composition (Writing Requirement)		3
Approved Criminology elective		3
Elective (3000 level or above, not in major)		3
	Credits	15
Semester Six		
Criminology core courses		6-7
Approved Criminology electives		6
Elective (3000 level or above, not in major)		3
	Credits	15-16
Semester Seven		
Criminology core course		3-4
Approved Criminology elective		3
Gen Ed Physical Sciences		3
Electives (3000 level or above, not in major)		6
	Credits	15-16
Semester Eight		
Criminology core course		3
Approved Criminology electives		6
Electives (3000 level or above, not in major)		6
	Credits	15
	Total Credits	120

Approved Electives

Choose any CCJ, CJE, CJL or CJJ elective and up to 9 credits from these approved interdisciplinary courses.

Code	Title	Credits
ANT 3451	Race and Racism	3
ANT 3520	Skeleton Keys: Forensic Identification	3
BUL 4310	The Legal Environment of Business	4
MDU 4031	Medicine and the Law	3
MMC 4200	Law of Mass Communication	3
PAD 3003	Introduction to Public Administration	3
SPM 4723	Legal Issues in Sport and Physical Activity	3
SYP 3510	Deviance	3

Academic Learning Compact

The Bachelor of Arts in criminology (both the on campus and the online degree programs) introduces students to the study of criminal behavior, criminal justice systems from a multidisciplinary, liberal arts perspective. It enables students to understand crime, how society reacts to it (especially through the criminal justice system) and the interrelationships between features of society and law. It includes learning about the theories of crime and methods for studying crime, law and society.

Before Graduating Students Must

- Pass a department exit examination regarding crime, criminal justice, law and society and criminological theory.
- Complete a research paper for CCJ 3701 demonstrating the ability to research and to interpret research in criminology, law and society.
- Complete requirements for the baccalaureate degree as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Define and describe the criminal justice system, the interrelationships among its components and their fit with society.
2. Define and describe the legal institutions, the law and their interaction in society.

Critical Thinking

3. Analyze theories of crime and their implications for programs and policies to reduce crime.
4. Interpret and evaluate research in criminology, law and society and exhibit proficiency in the techniques used to conduct such research.

Communication

5. Communicate ideas clearly and effectively in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
CCJ 3024	I, R, A				
CCJ 3038		I, R, A			
CCJ 3701				I, R, A	I, R, A
CCJ 4014			I, R, A		

Assessment Types

- Exams
- Papers

East Asian Languages and Literatures Minor

This minor provides a solid foundation in either the Chinese or Japanese language and its cultural dimensions, with potential for use in international and other careers.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15-19 | Completed with minimum grades of C and no optional S-U
- **Related East Asian Languages and Literatures Programs**

No more than three credits can be Individual Study (CHI 4905/JPN 4905). Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Chinese

Code	Title	Credits
Select one:		6-10
CHI 2230	Intermediate Chinese 1	
& CHI 2231	and Intermediate Chinese 2	
CHI 2340	Chinese for Heritage Learners 1	
& CHI 2341	and Chinese for Heritage Learners 2	
Chinese language courses (3000 level or above)		
CHI, CHT, or CHW courses (3000/4000 level; must be taken at UF)		9
Total Credits		15-19

Japanese

Code	Title	Credits
Select one:		6-10
JPN 2230	Intermediate Japanese 1	
& JPN 2231	and Intermediate Japanese 2	
Japanese language courses (3000 level or above)		
JPN, JPT, or JPW courses (3000/4000 level)		9
Total Credits		15-19

Related East Asian Languages and Literatures Programs

- Bachelor of Arts in Foreign Languages and Literatures, Chinese (p. 628)
- Bachelor of Arts in Foreign Languages and Literatures, Japanese (p. 822)

East-Central European Studies Certificate

The East-Central European Studies certificate provides the opportunity to study the region of Central and Eastern Europe from an interdisciplinary perspective that incorporates both area and language studies.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 12-14 | Completed with minimum grades of C
- **Additional Information**
- **Related East-Central European Studies Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

By requiring one semester of language study (beyond the College of Liberal Arts and Sciences' language proficiency requirement), the program gives students the opportunity to enhance their language skills beyond the introductory level. Furthermore, an area studies minor that includes less commonly taught languages (Czech, Hungarian, Polish) as core requirements offers a special opportunity as there are no comparable programs in the state of Florida.

The certificate program is open to all undergraduates. To be eligible, students must have a minimum 2.5 overall GPA and a 3.0 GPA in their declared major. Completion of the certificate requires a combined 3.0 GPA for all certificate coursework.

At least nine credits of coursework must be unique to the East Central European Studies certificate out of all other certificates and minors.

Required Courses

Code	Title	Credits
Select one:		3
EUH 3330	Late Modern Central and Eastern Europe	
EUH 3564	Central and Eastern Europe in the 20th Century	
EUS 3930	Undergraduate Seminar in European Studies (Anthropology of Eastern Europe)	
or ANT 3930	Junior Topics Class in Anthropology	
EUS 3930	Undergraduate Seminar in European Studies	
or CPO 3614	Eastern European Politics	
Foreign Language		
Select a minimum of 3 credits beyond college requirement:		3-5
CZE 1130	Introduction to Czech Language and Culture 1	
CZE 2200	Intermediate Czech 1	
EUS 3938	European Less Commonly Taught Languages	
GER 2200	Intermediate German 1	
HNG 1130	Beginning Hungarian 1	
HNG 1180	Elementary Hungarian: Review and Progress 1	
POL 1130	Introduction to Polish Language and Culture 1	
RUS 1130	Introduction to Russian Language and Culture 1	
RUS 2220	Intermediate Russian 1	
Approved Electives		6
Total Credits		12-14

Approved Electives | Minimum 6 credits

Code	Title	Credits
EUH 3205	Nineteenth-Century Europe	3
EUH 4563	Habsburg Monarchy	3
EUH 4610	Society and the Sexes in Modern Europe, 18C to the Present	3
EUS 3100	European Cinema	4-8
EUS 3220	Secret Police under Communism	3
EUS 3400	Migration in Europe	3

EUS 4932	Jean Monnet Special Seminar: the EU Today	1-3
GEA 3500	Geography of Europe	3
Any 3000/4000-level CZT/GET/PLT/RUT course or other special-topic courses [1]		
Additional electives [1]		

[1] As approved by the Center for European Studies (http://ces.ufl.edu/academics/undergraduate-academics/european-studies-program).

Related East-Central European Studies Programs

- East-Central European Studies minor (p. 678)

East-Central European Studies Minor

This minor provides the opportunity to study the region of Central and Eastern Europe from an interdisciplinary perspective that incorporates both area and language studies.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18-22 | Completed with minimum grades of C
- **Additional Information**
- **Related East-Central European Studies Programs**

The minor is open to all undergraduates.

By requiring two semesters of language study (beyond the College of Liberal Arts and Sciences' language proficiency requirement), the program gives students the opportunity to enhance their language skills beyond the introductory level. Furthermore, an area studies minor that includes less commonly taught languages (Czech, Hungarian, Polish) as core requirements offers students a special opportunity as there are no comparable programs in the state of Florida.

The curriculum requires two semesters of a language beyond the CLAS language requirement, one East-Central European studies course and three electives from an approved list.

Of the total credits, no more than three may be individual work. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
Select one:		3
EUH 3330	Late Modern Central and Eastern Europe	
EUH 3564	Central and Eastern Europe in the 20th Century	
EUS 3930	Undergraduate Seminar in European Studies (Anthropology of Eastern Europe)	
or ANT 3930	Junior Topics Class in Anthropology	
EUS 3930	Undergraduate Seminar in European Studies (Eastern European Politics)	
or CPO 3614	Eastern European Politics	
Two semesters of one language beyond the CLAS language proficiency requirement: Czech, German, Hungarian, Polish, or Russian		6-10
Electives (from an approved list)		9
Total Credits		18-22

Related East-Central European Studies Programs

- East-Central European Studies certificate (p. 677)

Economics

Through the study of economics, students learn how to look at a complex world and make sense of the wide variety of behaviors they observe. Students majoring in economics learn the analytical skills used to understand how households, firms and governments make economic decisions, comparing costs and benefits in an effort to maximize their impact.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Economics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students will learn the critical skills used to determine the implications of economic decisions for the allocation of society's scarce resources, the pricing of goods and services, the distribution of income, the behavior of macroeconomic variables, and the effect of government intervention.

Classes within the economics major include, among others, international trade, law and economics, economics of sports, game theory, and public choice. The analytical skills students develop are useful preparation for careers in business, law, government, public policy and academia. A degree in economics is also appropriate for students intending to pursue advanced degrees in the social sciences and in professional schools.

Coursework for the Major

The major requires 37-39 credits. Students must achieve minimum grades of C in each required foundation and economics course, including the economics electives and outside substitutes.

Code	Title	Credits
Required Foundation Coursework		
MAC 2233	Survey of Calculus 1	3-4
or MAC 2311	Analytic Geometry and Calculus 1	
STA 2023	Introduction to Statistics 1 [1]	3
ECO 2013	Principles of Macroeconomics	4
ECO 2023	Principles of Microeconomics	4
ECO 3101	Intermediate Microeconomics [2,5]	4
ECO 3203	Intermediate Macroeconomics	4
Required Upper-Level Coursework		
Four economics elective courses [3]		15-16
Select a maximum of one: [4]		
AEB 3450	Introduction to Natural Resource and Environmental Economics	
AEB 4931	Special Topics in Food and Resource Economics	
FIN 3403	Business Finance	
GEO 3502	Economic Geography	
Total Credits		37-39

1. Students taking advanced statistics might not be required to take STA 2023.
2. Complete ECO 3101 early in the sequence, because it is a prerequisite for some economics electives.
3. Defined as any 3000 or 4000 level course with an ECO, ECP, or ECS prefix; not including ECO 3101, ECO 3203, ECO 4905, or ECO 4941. Course prerequisites are strictly enforced.
4. This substitute cannot double count toward the CLAS 3000-level elective requirement.
5. Students cannot receive credit for both ECO 3101 and ECP 3703.

Recommended Coursework

Students planning to pursue graduate study in economics should consider a minor in mathematics or statistics or take the following mathematics and statistics courses:

Code	Title	Credits
ECO 4421	Econometrics	4
or STA 4210	Regression Analysis	
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
MAP 2302	Elementary Differential Equations	3
MAS 3114	Computational Linear Algebra	3
or MAS 4105	Linear Algebra 1	
MAA 4211	Advanced Calculus 1	3

STA 4321	Introduction to Probability [1]	3
STA 4322	Introduction to Statistics Theory [1]	3

[1] Students taking advanced statistics might not be required to take STA 2023.

Overseas Studies

Students are encouraged to spend a semester abroad. The College of Liberal Arts and Sciences and the International Center offer several excellent study abroad programs that allow students the opportunity to go abroad and still make progress toward their degree. Contact an academic or study abroad advisor for more information.

Research

Working on research can be a valuable part of an undergraduate education. There are a limited number of spots for undergraduates to work with a faculty member on research and/or assist with a class. Students should ask their professors about this possibility; however, before doing so, students should have completed ECO 3101 and at least one economics elective. Students selected for these limited positions must have very strong economics grades. More formally, ECO 4935 is available to honors students and seniors who have high grades and are interested in research and/or graduating with honors.

Related Economics Programs

- Economics minor (p. 682)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450601&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 of 4 courses from ECO 2013, ECO 2023, MAC 2233 and STA 2023 with a 2.5 critical-tracking GPA, excluding ECO 3101
- 2.0 UF GPA required

Semester 3

- Complete 1 additional course of the 4 with a 2.75 critical-tracking GPA, excluding ECO 3101
- 2.0 UF GPA required

Semester 4

- Complete 2 additional courses of the 4 with a 3.0 critical-tracking GPA, excluding ECO 3101
- 2.0 UF GPA required

Semester 5

- Complete ECO 3101 with a minimum grade of C
- Maintain a 3.0 critical-tracking GPA, excluding ECO 3101
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education course (typically, GE-C, H, or S).

FIN 3403, AEB 3450, AEB 4931, and GEO 3502, if taken, do not also count toward the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Foreign language		4-5
	Credits	14-15
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Foreign language		3-5
Science laboratory (Gen Ed Biological or Physical Sciences)		1
	Credits	14-16
Semester Three		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Biological and Physical Sciences (area NOT taken in semester 2)		3
Elective (or foreign language if 4-3-3 option)		3
Elective		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15
Semester Four		
Gen Ed Composition; Writing Requirement		3
Electives		6
Gen Ed Humanities		3
Gen Ed Physical Sciences		3
	Credits	15
Semester Five		
ECO 3101	Intermediate Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
Gen Ed Biological Sciences		3
Electives		9
	Credits	16
Semester Six		
Economics courses (3000 level or above)		8
Elective		3
Electives (3000 level or above, not in major)		6
	Credits	17
Semester Seven		
ECO 3203	Intermediate Macroeconomics	4
Economics course (3000 level or above)		4
Electives (3000 level or above, not in major)		6
	Credits	14
Semester Eight		
Economics course (3000 level or above)		4
Electives		5
Electives (3000 level or above, not in major)		6
	Credits	15
	Total Credits	120

Academic Learning Compact

This major teaches students the skills used to understand how households, firms and governments make economic decisions and the implications of those decisions for resource allocation, pricing, the distribution of income and macroeconomic variables.

Before Graduating Students Must

- Take the Economics Field Test conducted by the ETS. This test will be 10% of the student's grade in ECO 3203.The goal of the Department of Economics is that each student's average score exceeds the national average of 154; however, a score of 154 is not a graduation requirement.
- Students who want to graduate *magna cum laude* or *summa cum laude* must propose and defend an honors thesis before the department's undergraduate committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify indifference curves as representations of consumer preferences, and to evaluate these indifference curves in the context of preference relations.

Critical Thinking

2. Model and analyze unfamiliar social interactions using a formal economic framework.

Communication

3. Communicate effectively the concept of opportunity costs and tradeoffs.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
ECO 2013	I, R, A	I, R, A	
ECO 2023	I, R, A	I, R, A	
ECO 3101	R, A		I, R, A
ECO 3203		R, A	I, R, A
Four ECO Electives	R, A	R, A	R, A

Assessment Types

- Embedded questions in exams and papers
- The ETS Field Test

Economics Minor

Through the study of economics, students learn how to look at a complex world and make sense of the wide variety of behaviors they observe. Students minoring in economics are introduced to the analytical skills used to understand how households, firms, and governments make economic decisions, comparing costs and benefits in an effort to maximize their own well-being or social objectives.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 22-23 | Completed with minimum grades of B for ECO 2013 and ECO 2023, minimum grades of C for remaining courses, and no optional S-U

The Economics minor is a suitable option for students of all undergraduate majors. Students minoring in economics can, for example, pursue coursework in managerial decision-making, international development, and quantitative methods.

Required Courses

Code	Title	Credits
MAC 2233	Survey of Calculus 1 (or higher)	3
ECO 2013	Principles of Macroeconomics	4
ECO 2023	Principles of Microeconomics	4
ECP 3703	Managerial Economics	4
Economics electives [1]		7-8
Total Credits		22-23

[1] Upper-division; any 3,000 or 4,000 level course with an ECO, ECP, or ECS prefix (not including ECO 3101, ECO 3203, ECO 4905, ECO 4941), and one of AEB 3450, FIN 3403, or GEO 3502.

Related Economics Programs

- Bachelor of Arts in Economics (p. 678)

English

Undergraduate study in English prepares students for diverse careers in law, publishing, advertising, media and business, teaching, and advanced degree work.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** Models of Study
- **Credits for Degree:** 120
- **Additional Information**
- **Related English Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Courses offered by the department introduce students to a world of experiences that cannot be exhausted in the brief span of a college education; new authors, new works, new media, and new tools for understanding continually enlarge and transform the world. With the help of faculty advisors, undergraduate majors in English select from courses in various forms, periods and approaches. In addition, students may develop special expertise in one of several models; for example, communication and creative writing, theory of media, literary study, or cultural studies.

Coursework for the Major

Students pursuing the B.A. in English must take ten courses offered by the English department. These courses must be 3000 level or above, of no fewer than three credits each and completed with minimum grades of C. (The requirement is ten courses, not 30 credits).

Prerequisite to all 3000/4000-level courses are six credits of English at the 1000/2000 level or department permission. Students must take at least five of their 3000-level or above English courses at UF. Of 3000-level courses with an ENC prefix, only the following apply to the English major:

Code	Title	Credits
ENC 3250	Professional Communication	3
ENC 3310	Advanced Exposition	3
ENC 3312	Advanced Argumentative Writing	3
ENC 3414	Hypermedia	3

The student is responsible for consulting an advisor and preparing a plan of study.

Course Details

Because English majors will not be tracked for a specific set of courses, but must meet the ten-course requirement described above, there are no particular English courses that majors **must** take on a semester-by-semester basis.

The only prerequisite for most 3000/4000-level English courses is earning six credits of lower-division English course credit by coursework or placement (refer to Placement Section below). The classes that may have additional prerequisites are 3000/4000-level creative-writing (CRW) workshops, 4000-level film and video production workshops (ENG 4136 and ENG 4146), 3000/4000-level advanced writing (ENC) courses, department seminars (ENG 4953), honors seminars (ENG 4936), and the department's internship course (ENG 4940). Refer to the catalog's course descriptions to view the prerequisites for these courses.

As students try to decide which 3000/4000-level courses to take, they should not be concerned about differences between the two levels. The higher-level courses are not more difficult, except in the rare cases where the 4000-level course has 3000-level prerequisites. Course numbers are not created by the English Department but by a statewide course numbering system. Students can gauge a course's level of difficulty by reviewing the department's detailed course descriptions.

The majority of the department's upper-division courses are variable or rotating topics courses, many of which can be repeated for credit given a change in topic. The only way to discover what the actual course topics will be in a specific semester is to consult the department's course

descriptions, which explain topics and approaches, and generally give some idea of the texts and assignments. These descriptions are usually posted online three to four weeks before advance registration so that students have ample time to consult them before registering.

Specializations: Models of Study

The department encourages students to follow models of study to help them create coherent patterns of focus and breadth in their coursework. Models of study range from traditional courses of study such as British and American Literature, through film and media studies, creative writing and studies in theory, to cultural studies, postcolonial studies and studies in feminisms, genders and sexualities.

Models of study do not have tracking status. Students will never be monitored, electronically or otherwise, for completion of models of study. The models identify to English majors the faculty's enthusiastic recommendations about coursework distributions for various interests they might want to pursue. Department advisors also can recommend which models of study seem most appropriate for particular post-undergraduate career and educational goals.

- Advanced Writing
- African-American/African Diaspora Studies
- American Literature
- British Literature
- Children's Literature
- Creative Writing
- Cultural Studies
- Drama/Theatre
- Feminisms, Genders and Sexualities
- Film and Media Studies
- Medieval Studies
- Postcolonial Studies
- Studies in Theory

Because the models of study do not have tracking status, students do not need to declare their intention to follow models of study with the department. Models of study structure the coursework, but students do not have to take specific courses to complete degree requirements for the major, and they can modify or combine models of study. While the department understands that students may be disappointed if they are unable to take specific courses relevant to their models of study, the demand for seats in courses is very high and the department is not able to accommodate all course requests.

Placement

Scores on the verbal portion of the SAT or scores on the AICE, AP, IB or CLEP tests will determine the appropriate composition course. Refer to the charts in the Academic Advising section (p. 1414) for course equivalency and placement information.

The department recommends that all students take one 2000-level English department course (without duplicating any course for which they have received placement credit) before moving on to 3000/4000-level coursework. Courses taught at the university level are bound to differ from those taught at the high school level, no matter how enriched the high school curriculum may have been.

Freshmen who intend to major in English should consult a department advisor as soon as possible. Students who intend to establish an emphasis in film studies should take ENG 2300. Creative writing students should take CRW 1101 or CRW 1301.

Related English Programs

- English minor (p. 687)

Critical Tracking

Critical Tracking records each student’s progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=230101&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.1 UF GPA required

Semester 3

- Complete 1 English department course at the 2000 level or higher
- 2.3 UF GPA required

Semester 4

- Complete 1 additional English department course at the 2000 level or higher with a 2.5 critical-tracking GPA

Semester 5

- Complete 1 additional English department course (1 of the 3 courses must be at the 3000 level) with a 2.5 critical-tracking GPA
- 2.5 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). One of the two general education mathematics courses must be a pure math course.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Foreign language		4-5
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	13-14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Composition (if needed)		3
English department survey of literature course (**Critical Tracking**; 2000 level; Gen Ed Humanities)		3
Foreign language		3-5
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15-17
Semester Three		
Gen Ed Biological or Physical Sciences (area NOT taken in semester one)		3
English department survey of literature course (**Critical Tracking**; 2000 level; Gen Ed Humanities)		3
Elective or prerequisite (or foreign language if 4-3-3 language option)		3
Gen Ed Mathematics		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Four		
Electives		4
English course from model (**Critical Tracking**; 3/4000 level)		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Biological Sciences		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Gen Ed Social and Behavioral Sciences		3
	Credits	17
Semester Five		
Electives		6
English courses from model (3/4000 level)		6
Gen Ed Physical Sciences		3
	Credits	15

Semester Six	
Electives	6
English courses from model (3/4000 level)	9
Credits	15
Semester Seven	
Electives (3000 level or above, not in major)	9
English courses from model (3/4000 level)	6
Credits	15
Semester Eight	
Electives (3000 level or above, not in major)	9
English courses from model (3/4000 level)	6
Credits	15
Total Credits	120

Academic Learning Compact

Home to UF's programs in Creative Writing and Film and Media Studies, The Center for Children's Literature and Culture, and The Institute for the Psychological Study of the Arts, the Department of English bridges traditional literary studies with new critical and theoretical disciplines. These include: critical theory and cultural studies; creative writing; rhetoric and composition; children's and young adult literature; contact period studies; postcolonial and/or diasporic studies; film studies/film and video production; gender studies and feminist theory; new media; psychology and literature; and imagetext studies.

Individualized programs balance focus with a flexible curriculum that spans periods, genres and media, and fosters careful analysis across disciplines and methodologies. Received traditions are renovated and new intersections of critical and literary practice are fostered within the framework of the *Context Model* system. Students are encouraged to define and pursue original work and/or creative work.

The study of English is vitally concerned with the texts and contexts of public culture. The department's curriculum cultivates a responsible understanding of the cultural and material conditions that shape historical and contemporary texts, and instructs students in the communication skills necessary to produce materials that disseminate new thought and knowledge by engaging with "fundamental questions" in the arts and humanities.

Before Graduating Students Must

- Complete ten English courses (3000 or above) that demonstrate proficiency in the student learning outcomes; assessments will be graded according to an evaluation rubric during the student's inaugural and final semesters in the major.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify materials, terminologies, methodologies and theories within one or more context models:
   a. Advanced Writing
   b. African-American/African Diaspora Studies
   c. American Literature
   d. British Literature
   e. Children's Literature
   f. Creative Writing
   g. Cultural Studies
   h. Drama/Theater
   i. Feminisms, Genders and Sexualities
   j. Film and Media Studies
   k. Medieval/Early Modern Studies
   l. Postcolonial Studies
   m. Studies in Theory

Critical Thinking

2. Communicate knowledge, ideas and reasoning effectively in written, oral or other forms appropriate to the context model(s).

Communication

3. Evaluate cultural narratives and/or objects, employing methodologies and criteria appropriate to the context model(s).

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
Assessment 1 (First semester in the major)	A	A	A
Context Model Courses[1]	I, R	I, R	I, R
Assessment 2 (Final/graduating semester)	A	A	A

[1] Course selection and sequence vary by student choice and courses can be affiliated with multiple context models.

Assessment Types

- Instructors rely on course assignments, most often critical essays, as prescribed by context models and as assessed the inaugural and final semesters of the student's enrollment in the upper-division major.

English Minor

This minor provides the opportunity to study literature, rhetoric, creative writing or film and media, while gaining critical, analytical, and intellectual skills.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 minimum | Completed with minimum grades of C and no optional S-U
- **Related English Programs**

- Only one course with the number ENG 4905 can apply, unless an exception is approved by the undergraduate studies coordinator
- Of 3000-level courses with an ENC prefix, only the following apply to the English minor:

Code	Title	Credits
ENC 3250	Professional Communication	3
ENC 3310	Advanced Exposition	3
ENC 3312	Advanced Argumentative Writing	3
ENC 3414	Hypermedia	3

- Students must complete a minimum six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
Select five at the 3000/4000 level: [1]		15
Only these Prefixes Apply		
AML American Literature		
CRW Creative Writing		
ENC English Composition		
ENG English		
ENL English Literature		
LIT Literature		
Other Courses that Apply		
LIN 3010	Introduction to Linguistics	
SPC 3605	Speechwriting	
SPC 4680	Rhetorical Criticism	
Total Credits		15

[1] Three courses must be completed at UF.

Related English Programs

- Bachelor of Arts in English (p. 683)

European Jewish Studies Certificate

An interdisciplinary, individualized, and experiential study of European Jewry, including comparison with North African and Middle Eastern populations outside and sometimes within continent's borders.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** Email (zachmann@ufl.edu) | Email (jkugelma@ufl.edu)
- **Related Jewish or Hebrew Programs**

Open to all students enrolled in an undergraduate degree program at the University of Florida.

Offered by the Center for Jewish Studies in cooperation with the Center for European Studies and participating UF units, the certificate in European Jewish Studies is designed to familiarize students with key issues in the Jewish experience in Europe, including relations with other groups; the trajectory of Jewish integration in European societies and cultures; representations of the Jew within European cultures; and comparisons with North African and Middle Eastern populations outside and within the continent's borders.

The EJS certificate provides students with multiple opportunities for concentrated and experiential areas of study. It allows students to work closely with their EJS faculty advisor to develop targeted, individualized areas of expertise from an array of specialists and perspectives to complement their majors and/or to prepare them for careers in governmental and non-governmental organizations, education, international business and politics, museums, festivals, libraries, Jewish associations and foundations. Students may specialize in national contexts or comparative and transnational cases, events and issues.

Requirements

Requirements consist of EJS approved individual study plans of 15 credit hours and attendance at a minimum of five relevant public lectures sponsored or co-sponsored by the Center for Jewish Studies and the Center for European Studies. Since availability of courses varies from year to year and new courses are often added, students should consult with a faculty adviser to determine which courses are approved for the certificate

Code	Title	Credits
Approved survey course		3
Approved concentration courses		9
Experiential capstone		3
Total Credits		15

Approved Survey Courses

Code	Title	Credits
EUH 3670	Jewish History from 711 to 1492	3
EUH 3671	Jewish History from 1492-1750	3
EUH 3672/JST 3930	Modern European Jewish History	3
EUH 3931/JST 3930	Special Topics in European History (Genocide, Ethnic Cleansing and Displaced Persons)	3
GEW 4930	Seminar in Germanic Languages and Literatures	3
HBR 4930	Special Topics (Yiddish Language and Culture)	3
JST/FRW 3930	Special Topics in Jewish Studies (The Jewish Question)	3
JST 3930/FRT 3004	Special Topics in Jewish Studies (Enduring Legacies)	3
JST 3930	Special Topics in Jewish Studies (Europe and the Jews)	3

Approved Concentration Courses

Code	Title	Credits
EUH 3033/JST 3930	History of the Holocaust (History of the Holocaust)	3
EUH 3670	Jewish History from 711 to 1492	3
EUH 3671	Jewish History from 1492-1750	3
EUH 3931/JST 3930	Special Topics in European History (Genocide, Ethnic Cleansing and Displaced Persons (I)	3-9
EUH 3931/JST 3930	Special Topics in European History (Holocaust in the Courtroom)	3-9
EUH 3931/JST 3930	Special Topics in European History (Holocaust Studies)	3-9
EUH 4311	Jews of Medieval Spain	3
EUS 4930/JST/FRT 3930	Special Topics in European Studies (Children of the Revolution)	3

GET/JST 3930	Variable Topics in German Studies (Fascinating Fascism)	3-9
GEW 3930	Variable Topics in German Studies (The Limits of Representation)	3-9
GEW 4731/JST 4936	Contemporary German Literature (Remembering, Repeating and Working Through the Past)	3
GEW 4930	Seminar in Germanic Languages and Literatures (Modern German Jewish Culture)	3
ITT/JST 3930	Special Topics in Italian Literature and Culture (The Holocaust in Italy)	3
JST 3930	Special Topics in Jewish Studies (The Holocaust and Social Theory)	3
JST 3930	Special Topics in Jewish Studies (German Literature and Visual Culture)	3
JST 3930/IDH 3931	Special Topics in Jewish Studies (Shakespeare on Trial)	3
JST/FRW 3930	Special Topics in Jewish Studies (The Jewish Question in Post-Revolutionary France)	3
JST 3930/FRT 3004	Special Topics in Jewish Studies (Enduring Legacies)	3
JST 3930	Special Topics in Jewish Studies (Europe and the Jews)	3
JST 3930	Special Topics in Jewish Studies (Secular Jewish Culture)	3
JST 3930	Special Topics in Jewish Studies (Other Europe ()	3
JST 3930/4936/FRW 4930	Special Topics in Jewish Studies (Resistance Literature)	3
JST 4936/GEW 4970	Colloquium in Jewish Studies (Kafka and The Question of Jewish Modernity)	3

Approved Experiential Capstone

Code	Title	Credits
Select one:		3
Director-approved courses with completion of a faculty approved assessment (research project).		
Approved faculty-guided research in EJS (including approved JST 4905), with assessment		
JST approved study abroad		

CERTIFICATE WITH HONORS

Students may also participate in approved experiential learning projects, approved USP funded EJS research, and Honors theses in European Jewish Studies to receive certificate with Honors.

Related Jewish or Hebrew Programs

- Bachelor of Arts in Jewish Studies (p. 829)
- Bachelor of Arts in Foreign Languages and Literatures, Hebrew (p. 782)
- Bachelor of Arts in Interdisciplinary Studies, Middle Eastern Languages and Cultures (p. 799)
- Hebrew minor (p. 787)
- Jewish Studies minor (p. 833)
- Holocaust Studies certificate (p. 798)

European Union Studies Certificate

The European Union studies certificate provides the opportunity to gain multidisciplinary expertise in EU-related affairs.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 12 | Completed with minimum grades of C
- **Additional Information**
- **Related European Union Studies Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The certificate program is open to all undergraduates. To be eligible, students must have a minimum 2.5 overall GPA and a 3.0 GPA in their declared major. Completion of the certificate requires a combined 3.0 GPA for all certificate coursework.

At least nine credits of coursework must be unique to the European Union Studies certificate out of all other certificates and minors.

Required Courses

Code	Title	Credits
Required		
EUS 4210/POS 4931	Politics and Institutions of the European Union	3
or INR 4531	Politics of the European Union	

Core Course		
Select one:		3
EUS 4211	European Union and Its Enlargement	
EUS 4212	European Economic Integration: Politics and Policy	
EUS 4213/POS 4931	Turkey and the EU: History, Present and the Future	
EUS 4905	Individual Work (for students interested in EU internships)	
EUS 4932	Jean Monnet Special Seminar: the EU Today	
EUS 4944	Seminar in European Union Studies	
EUS 4950	Overseas Study in Europe (EU and the World; UF in Brussels Study Abroad)	
EUS 4950	Overseas Study in Europe (EU Environmental Policy; UF in Florence Study Abroad)	
POS/ECO 4956	Overseas Studies (Economics & Politics of the EU; UF in Salzburg Study Abroad)	
Or select a course from an approved list [1]		
Enhanced Courses		
Select two:		6
Any course approved by the Center for European Studies, see approved list		
Total Credits		12

[1] Center for European Studies approved list (http://ces.ufl.edu/academics/undergraduate-academics/european-union-studies-program-eces/eusp-certificate).

Related European Union Studies Programs

- European Union Studies minor (p. 690)

European Union Studies Minor

The European Union studies minor provides multidisciplinary expertise and hands-on practical experience in EU-related affairs through coursework, internships, and study abroad opportunities.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Additional Information**
- **Related European Union Studies Programs**

This minor is open to all undergraduates.

To be eligible, students must have a minimum overall 2.5 GPA and a 3.0 GPA in their major. The combined GPA for all coursework applied toward the minor must be a minimum 3.0.

Of the total credits, no more than three may be individual work. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Completion of the minor requires participation in an EU-related internship or CES study abroad or preapproved alternative with substantive EU content.

Required Courses

Code	Title	Credits
EUS 4210/POS 4931	Politics and Institutions of the European Union	3
or INR 4531	Politics of the European Union	
Core courses		6
Enhanced courses [1]		9
Total Credits		18

[1] Enhanced Courses (http://ces.ufl.edu/academics/undergraduate-academics/european-union-studies-program-eces/eusp-minor)

Core Courses

Code	Title	Credits
EUS 4211/POS 4931	European Union's Enlargement	3
EUS 4212/POS 4931	European Economic Integration: Politics and Policy	3

EUS 4213/POS 4931	Turkey and the EU: History, Present and the Future	3
EUS 4944	Seminar in European Union Studies	3
EUS 4950	Overseas Study in Europe (EU and the World)	3
EUS 4950	Overseas Study in Europe (EU Environmental Policy; UF in Florence Study Abroad)	3
EUS 4905	Individual Work (for students interested in EU internships)	3
POS/ECO 4956	Overseas Studies (Economics & Politics of EU; UF in Salzburg Study Abroad)	3
Or select from Approved list [1]		

[1] Approved List (http://ces.ufl.edu/academics/undergraduate-academics/european-union-studies-program-eces/eusp-minor)

Related European Union Studies Programs

- European Union Studies certificate (p. 689)

Foreign Languages and Literatures

The major provides a foundation for graduate work in Foreign Languages and Literatures or allied fields (anthropology, art history, history, linguistics, political science, religion). A Foreign Languages and Literatures major is excellent general preparation for entry to professional schools (business, journalism, law and medicine) or careers in foreign service, diplomacy, translation, commerce, business, import and export of information and culture, museums and libraries, and tourism.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** African Languages (p. 517) | Arabic (p. 550) | Chinese (p. 628) | Dual Languages (p. 692) | French and Francophone Studies (http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/FFS_BA) | German (p. 772) | Hebrew (p. 782) | Italian (p. 815) | Japanese (p. 822) | Russian (p. 926)
- **Credits for Degree:** 120
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in Foreign Languages and Literatures (FLL) provides students with a comprehensive knowledge of a specific language (or languages) and advanced familiarity with the cultural practices and traditions associated with the language(s) of specialization. The major in FLL enhances critical thinking and communication skills and provides students with a cross-cultural understanding of our contemporary world. The program allows students the flexibility to explore a single or dual language specialization as well as the opportunity to study culture through interdisciplinary fields of critical concentration, such as Comparative Cultural Studies, Film and Visual Culture, Intensive Area Studies, Literary Studies, and Medieval and Early Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security, communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

Foreign Languages and Literatures Specializations

- African Languages (p. 517)
- Arabic (p. 550)
- Chinese (p. 628)
- Dual Languages (p. 692)
- French and Francophone Studies (http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/FFS_BA)
- German (p. 772)
- Hebrew (p. 782)
- Italian (p. 815)
- Japanese (p. 822)
- Russian (p. 926)

Academic Learning Compact

The Foreign Languages and Literatures (FLL) major enables students to achieve communicative competence in their language(s) of specialization. Students will become knowledgeable in the culture and literature and/or linguistics associated with their language area(s) such that they will be able to critically analyze and evaluate authentic sources in the target language(s) and formulate independent, critical perspectives in the target

language(s). Further, students will learn the intercultural skills and practical know-how necessary to negotiate traveling, studying, and living in the target culture(s).

Before Graduating Students Must

- Satisfy the Florida statutes for the College-Level Academic Skills Requirement.
- Complete requirements for the baccalaureate degree, as determined by faculty.
- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and define cultural concepts, literary production, and/or linguistic structure in language(s) of specialization.

Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I, R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

Dual Languages

The major provides a foundation for graduate work in Foreign Languages and Literatures or allied fields (anthropology, art history, history, linguistics, political science, religion). A Foreign Languages and Literatures major is excellent general preparation for entry to professional schools (business, journalism, law and medicine) or careers in foreign service, diplomacy, translation, commerce, business, import and export of information and culture, museums and libraries, and tourism.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** African Languages (p. 517) | Arabic (p. 550) | Chinese (p. 628) | Dual Languages (p. 692) | French and Francophone Studies (http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/FFS_BA) | German (p. 772) | Hebrew (p. 782) | Italian (p. 815) | Japanese (p. 822) | Russian (p. 926)
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Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security, communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

Foreign Languages and Literatures Specializations

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- Italian (p. 815)
- Japanese (p. 822)
- Russian (p. 926)

Dual Language Specialization

The Dual Language specialization of the Foreign Languages and Literature major offers students the opportunity to specialize in two of the languages offered by the Department of Languages, Literatures and Cultures (LLC). Students can combine any of the languages offered as specializations and/or they can combine any of these languages with a specialization in Haitian Creole or Vietnamese.

Students who choose this track will develop proficiency in two languages as well as acquire cultural knowledge of more than one language area. Dual language majors will be specially poised to make both broad and deep linguistic and cultural comparisons and to build cross-cultural and cross-linguistic connections, skills that will prepare them to operate and work in multi-lingual and multi-cultural societies as well as across various complex regions of the world. Further, dual language majors will be able to apply the language-learning skills gained in the study of one language of specialization to reinforce their acquisition of a second language of specialization.

In the Dual Language specialization, students will complete two years of study of a principal language of specialization and two years of study of a second language taught in LLC. Students will also complete advanced coursework in the languages, their literatures and cultures, as well as a critical concentration.

There are a number of possibilities inherent in the Dual Language major. The following are some potential paths of study:

1. Dual Language: Haitian Creole with French and Francophone Studies
2. Dual Language: Vietnamese with Chinese

Students interested in the dual language specialization should consult with the undergraduate coordinator to determine the best course of study and to discuss practical and intellectually advantageous language pairings.

Coursework for the Major

The Dual Language specialization consists of two years of study of two languages. The 33 credits required includes 6 credits earned at the intermediate level in the second language, 18 credits of study in language, literature, and culture at the 3000 level or higher, and the 9 credit critical concentration. Students select a principal language of specialization and combine it with any of the other languages taught in the Department of Languages, Literatures, and Cultures. Course selections for the 18 credits of advanced electives will reflect the literature and culture of either language of specialization.

All coursework for the major must be completed with minimum grades of C.

Required Foundation Coursework
(not included in the 33 credits for the major)

First Language of Specialization
16-20 credits

Course	Title	Credits
Semester One		
Select one (Language A):		5
AKA 1130	Beginning Akan 1	
ARA 1130	Beginning Arabic 1	
CHI 1130	Beginning Chinese 1	

FRE 1130	Beginning French 1	
GER 1130 or GER 1125	Beginning Intensive German 1 or Discover German 1	
HAI 1130	Beginning Haitian Creole 1	
HBR 1130	Beginning Modern Hebrew 1	
ITA 1130	Beginning Italian 1	
JPN 1130	Beginning Japanese 1	
RUS 1130	Introduction to Russian Language and Culture 1	
SWA 1130	Beginning Swahili 1	
VTN 1130	Beginning Vietnamese 1	
WOL 1130	Beginning Wolof 1	
XHO 1130	Beginning Xhosa 1	
YOR 1130	Beginning Yoruba 1	
	Credits	5
Semester Two		
Select one (Language A):		5
AKA 1131	Beginning Akan 2	
ARA 1131	Beginning Arabic 2	
CHI 1131	Beginning Chinese 2	
FRE 1131	Beginning French 2	
GER 1131 or GER 1126	Beginning Intensive German 2 or Discover German 2	
HAI 1131	Beginning Haitian Creole 2	
HBR 1131	Beginning Modern Hebrew 2	
ITA 1131	Beginning Italian 2	
JPN 1131	Beginning Japanese 2	
RUS 1131	Introduction to Russian Language and Culture 2	
SWA 1131	Beginning Swahili 2	
VTN 1131	Beginning Vietnamese 2	
WOL 1131	Beginning Wolof 2	
XHO 1131	Beginning Xhosa 2	
YOR 1131	Beginning Yoruba 2	
	Credits	5
Semester Three		
Select one (Language A):		3-5
AKA 2200	Intermediate Akan 1	
ARA 2220	Intermediate Arabic 1	
CHI 2230	Intermediate Chinese 1	
FRE 2220	Intermediate French 1	
GER 2200	Intermediate German 1	
HAI 2200	Intermediate Haitian Creole 1	
HBR 2220	Intermediate Modern Hebrew 1	
ITA 2220	Intermediate Italian 1	
JPN 2230	Intermediate Japanese 1	
RUS 2220	Intermediate Russian 1	
SWA 2200	Intermediate Swahili 1	
VTN 2220	Intermediate Vietnamese 1	
WOL 2200	Intermediate Wolof 1	
XHO 2200	Intermediate Xhosa 1	
YOR 2200	Intermediate Yoruba 1	
	Credits	3-5
Semester Four		
Select one (Language A):		3-5
AKA 2201	Intermediate Akan 2	
ARA 2221	Intermediate Arabic 2	
CHI 2231	Intermediate Chinese 2	
FRE 2221	Intermediate French 2	
GER 2240	Intermediate German 2	
HAI 2201	Intermediate Haitian Creole 2	
HBR 2221	Intermediate Modern Hebrew 2	
ITA 2221	Intermediate Italian 2	
JPN 2231	Intermediate Japanese 2	

RUS 3400	Intermediate Russian 2	
SWA 2201	Intermediate Swahili 2	
VTN 2221	Intermediate Vietnamese 2	
WOL 2201	Intermediate Wolof 2	
XHO 2201	Intermediate Xhosa 2	
YOR 2201	Intermediate Yoruba 2	
	Credits	3-5
	Total Credits	16-20

Second Language of Specialization
10 credits

Course	Title	Credits
Semester One		
Select one (Language B):		5
AKA 1130	Beginning Akan 1	
ARA 1130	Beginning Arabic 1	
CHI 1130	Beginning Chinese 1	
FRE 1130	Beginning French 1	
GER 1130 or GER 1125	Beginning Intensive German 1 or Discover German 1	
HAI 1130	Beginning Haitian Creole 1	
HBR 1130	Beginning Modern Hebrew 1	
ITA 1130	Beginning Italian 1	
JPN 1130	Beginning Japanese 1	
RUS 1130	Introduction to Russian Language and Culture 1	
SWA 1130	Beginning Swahili 1	
VTN 1130	Beginning Vietnamese 1	
WOL 1130	Beginning Wolof 1	
XHO 1130	Beginning Xhosa 1	
YOR 1130	Beginning Yoruba 1	
	Credits	5
Semester Two		
Select one (Language B):		5
AKA 1131	Beginning Akan 2	
ARA 1131	Beginning Arabic 2	
CHI 1131	Beginning Chinese 2	
FRE 1131	Beginning French 2	
GER 1131 or GER 1126	Beginning Intensive German 2 or Discover German 2	
HAI 1131	Beginning Haitian Creole 2	
HBR 1131	Beginning Modern Hebrew 2	
ITA 1131	Beginning Italian 2	
JPN 1131	Beginning Japanese 2	
RUS 1131	Introduction to Russian Language and Culture 2	
SWA 1131	Beginning Swahili 2	
VTN 1131	Beginning Vietnamese 2	
WOL 1131	Beginning Wolof 2	
XHO 1131	Beginning Xhosa 2	
YOR 1131	Beginning Yoruba 2	
	Credits	5
	Total Credits	10

Required Core Coursework
33 credits

Students must complete four upper-division courses in the specialization while in residence at UF. Students should consult with their major advisor to ensure they are meeting this requirement.

Second Language of Specialization, Intermediate Level
6-8 credits (maximum 6 credits apply to the 33 credits required for the major)

Course	Title	Credits
Semester Three		
Select one (Language B):		3-5
AKA 2200	Intermediate Akan 1	
ARA 2220	Intermediate Arabic 1	
CHI 2230	Intermediate Chinese 1	
FRE 2220	Intermediate French 1	
GER 2200	Intermediate German 1	
HAI 2200	Intermediate Haitian Creole 1	
HBR 2220	Intermediate Modern Hebrew 1	
ITA 2220	Intermediate Italian 1	
JPN 2230	Intermediate Japanese 1	
RUS 2220	Intermediate Russian 1	
SWA 2200	Intermediate Swahili 1	
VTN 2220	Intermediate Vietnamese 1	
WOL 2200	Intermediate Wolof 1	
XHO 2200	Intermediate Xhosa 1	
YOR 2200	Intermediate Yoruba 1	
	Credits	3-5
Semester Four		
Select one (Language B):		3-5
AKA 2201	Intermediate Akan 2	
ARA 2221	Intermediate Arabic 2	
CHI 2231	Intermediate Chinese 2	
FRE 2221	Intermediate French 2	
GER 2240	Intermediate German 2	
HAI 2201	Intermediate Haitian Creole 2	
HBR 2221	Intermediate Modern Hebrew 2	
ITA 2221	Intermediate Italian 2	
JPN 2231	Intermediate Japanese 2	
RUS 3400	Intermediate Russian 2	
SWA 2201	Intermediate Swahili 2	
VTN 2221	Intermediate Vietnamese 2	
WOL 2201	Intermediate Wolof 2	
XHO 2201	Intermediate Xhosa 2	
YOR 2201	Intermediate Yoruba 2	
	Credits	3-5
	Total Credits	6-10

Advanced Elective Coursework

18 credits of advanced language and culture study with at least 6 credits at the 4000 level

Specific course offerings in this section will depend on the language(s) selected, but these courses should be selected from the advanced elective offerings (3000/4000 level courses) associated with either language of specialization. Selections should include at least two courses at the 4000 level. Students should consult with the undergraduate coordinator to develop the best course of study.

Critical Concentration

9 credits from one of the following concentrations

Although courses may appear in more than one group they may be counted toward only one group

- Comparative Cultural Studies
- Film and Visual Culture
- Intensive Area Studies: Specific course offerings in this section will depend on the languages selected, but these courses should be selected from the advanced elective offerings (3000/4000 level courses) associated with the first and second language of specialization and their broader geographical area of cultural influence.
- Literary Studies
- Medieval and Early Modern Studies

A maximum of 15 credits non-UF overseas study credit may apply to the major. Students must have all overseas study credit that will transfer to the major approved by their major advisor.

Overseas Study

The department recommends no more than 12-15 credits from overseas study, depending on the requirements of the language specialization and in consultation with the appropriate Undergraduate Coordinator.

Placement

Students with previous training in their language of specialization as well as those with heritage background in that language should consult with the LLC undergraduate coordinator in order to have their level assessed before enrolling in any language course.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160501&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete Language A: Semester 1 or higher-level Language A course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete Language A: Semester 2 or higher-level Language A course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete Language A: Semester 3 or higher-level Language A course and Language B: Semester 1 with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Language A: Semester 1 (**Critical Tracking**)		5
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
Language A: Semester 2 (**Critical Tracking**)		5
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological or Physical Sciences (area **not** taken in semester one)		3
State Core Gen Ed Mathematics (p. 23)		3

Science laboratory (Gen Ed Physical or Behavioral Sciences)		1
	Credits	15
Semester Three		
Language A: Semester 3 (**Critical Tracking**)		3-4
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15-16
Semester Four		
Language A: Semester 4		3-4
Advanced elective (3000 level or above, in the major)		3
Electives (3000 level or above, not in major)		6
Gen Ed Social and Behavioral Sciences		3
	Credits	15-16
Semester Five		
Language B: Semester 1 (**Critical Tracking**)		5
Critical concentration course		3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Advanced elective		3
	Credits	17
Semester Six		
Language B: Semester 2		5
Advanced electives (in the major)		6
Elective (3000 level or above; not in major)		3
	Credits	14
Semester Seven		
Language B: Semester 3		3-4
Critical concentration course		3
Advanced elective (4000 level or above; in the major)		3
Elective (3000 level or above, not in major)		3
Elective or senior thesis option		3
	Credits	15-16
Semester Eight		
Language B: Semester 4		3
Critical concentration course		3
Advanced elective (4000 level or above; in the major)		3
Electives (3000 level or above, not in major)		6
	Credits	15
	Total Credits	120

Critical Concentration Courses | 9 credits from one concentration

Although courses may appear in more than one group they may be counted toward only one group

Comparative Cultural Studies

Code	Title	Credits
ABT 3500	Arabic Culture	3
ABT 4131	The Qur'an as Literature	3
ARA 3510	The Arab Woman	3
CHI 3403	Chinese Calligraphy	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CZT 3564	Modern Czech Culture and Society	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3003	German Culture and Civilization 1	3
GET 3004	Modern German Culture and Civilization	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
HAI 3930	Haitian Culture and Society	3

HAT 3564	Haitian Culture and Society	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JMT 3500	Jamaican Creole, Reggae, and Rastafari	3
JPT 3500	Japanese Culture	3
JPT 4502	Japanese Folklore	3
RUT 3443	War and Peace	3
RUT 3500	Russian Cultural Heritage	3
RUT 3501	Contemporary Russian Culture and Society	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3504	Russia Today	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3524	Russia through Film	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 4450	Russian Modernism	3
VTT 3500	Vietnamese Culture	3
YOT 3500	Yoruba Diaspora in the New World	3

Film and Visual Culture

Code	Title	Credits
CHI 4930	Special Topics in Chinese Studies	3
CHT 3391	Chinese Film and Media	4
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	4
FRT 3520	French Cinema	4
FRT 3561	Women in French Literature and/or Cinema	3-4
FRT 4523	European Identities, European Cinemas	4
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
HBR 4930	Special Topics	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPN 4930	Special Topics in Japanese Studies	3
JPT 3702	Japanese Visual Culture	3
JPT 3391	Introduction to Japanese Film	4
PLT 3520	Polish Cinema	4
RUT 3524	Russia through Film	3
SSA 4930	Special Topics in African Studies (African Film)	3

Literary Studies

Code	Title	Credits
ABT 3130	Arabic Literary Heritage 1	3
ABT 4131	The Qur'an as Literature	3
CHI 4930	Special Topics in Chinese Studies	3
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3200	Medieval Literary Culture	3

GET 3501	History, Literature and Arts of Berlin	3
GET 3580	Representations of War in Literature and Visual Media	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
GET 4930	Variable Topics in German Studies	3
HAT 3503	Haitian Culture and Literature in Translation	3
HBR 4930	Special Topics	3
HBT 3223	Identity and Dissent in the Hebrew Short Story	3
HBT 3233	Israeli History and the Contemporary Novel	3
HBT 3563	Women in Modern Hebrew Fiction	3
HBT 3564	Motherhood in Modern Hebrew Literature	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3140	Modern Women Writers	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
PLT 3930	Special Topics in Polish Studies	3
RUT 3101	Russian Masterpieces	3
RUT 3441	Tolstoy and Dostoevsky	3
RUT 3442	Themes from Russian Literature	3
RUT 3443	War and Peace	3
RUT 3452	Russian Literature of the Twentieth Century	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 3930	Variable Topics in Russian Studies	3
RUT 4440	Pushkin and Gogol	3
RUT 4450	Russian Modernism	3
SST 4502	African Oral Literature	3
SSW 3303	Swahili Oral Literature	3
SSW 4713	African Women Writers	3
VTN 4930	Special Topics in Vietnamese Studies	3
YOR 4502	Yoruba Oral Literature	3

Medieval and Early Modern Studies

Code	Title	Credits
ARA 3510	The Arab Woman	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
GET 3200	Medieval Literary Culture	3
ITT 3431	Italy and Pilgrimages	3
JPT 3300	Samurai War Tales	3
MEM 3003	Introduction to the Medieval World	3
MEM 3300	Castles and Cloisters: An Introduction to Medieval Communities	3
MEM 3301	Palaces and Cities: An Introduction to Early Modern Communities	3
MEM 3730	Studies in the Holy Roman Empire	3
MEM 3805	Research Methods in Medieval and Early Modern Studies	1
MEM 3931	Variable Topics in Medieval and Early Modern Studies	3

Academic Learning Compact

The Foreign Languages and Literatures (FLL) major enables students to achieve communicative competence in their language(s) of specialization. Students will become knowledgeable in the culture and literature and/or linguistics associated with their language area(s) such that they will be able to critically analyze and evaluate authentic sources in the target language(s) and formulate independent, critical perspectives in the target language(s). Further, students will learn the intercultural skills and practical know-how necessary to negotiate traveling, studying, and living in the target culture(s).

Before Graduating Students Must

- Satisfy the Florida statutes for the College-Level Academic Skills Requirement.
- Complete requirements for the baccalaureate degree, as determined by faculty.
- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and define cultural concepts, literary production, and/or linguistic structure in language(s) of specialization.

Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I, R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

French and Francophone Studies

Foreign Languages and Literatures

French is considered a strategic language for global communications in matters of security, health, business, and cultural exchange. It is the key language to understanding the culture and history of the Francophone world. A specialization in French and Francophone studies offers the linguistic, cultural, and intellectual training students need for an increasingly globalized future. In addition, the specialization forges links between the present and the past, as it encourages students to explore the exceptionally rich humanistic tradition of France and the Francophone world from the Middle Ages through the modern period.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related French Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in Foreign Languages and Literatures (FLL) provides students with a comprehensive knowledge of a specific language (or languages) and advanced familiarity with the cultural practices and traditions associated with the language(s) of specialization. The major in FLL enhances critical thinking and communication skills and provides students with a cross-cultural understanding of our contemporary world. The program allows students the flexibility to explore a single or dual language specialization as well as the opportunity to study culture through interdisciplinary fields of critical concentration, such as Comparative Cultural Studies, Film and Visual Culture, Intensive Area Studies, Literary Studies, and Medieval and Early Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security, communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

A French and Francophone studies specialization of the Foreign Languages and Literatures major provides students with a strong command of the French language and an understanding of the cultures of the Francophone world. The specialization gives a foundation in the French Language, including speaking, reading, writing, and listening. Our emphasis on communicative approaches and linguistic and cultural competencies trains our students to compete in an increasingly globalized workforce. In addition, the major develops skills in critical thinking and research through in-depth study of the exceptionally rich humanistic tradition of France and the Francophone world throughout history. The program allows each student the flexibility to explore a variety of disciplines within the specialization and to design an individual course of study to reflect a particular interest in linguistics, literatures, cinema, cultural production, or other fields.

The specialization offers an excellent base for diverse careers including diplomacy, international relations, journalism, translation, education, global health, banking, and business. Many of our students choose to combine the French and Francophone specialization with another field of study, including majors in physical sciences and engineering.

Coursework for the Major

The French and Francophone studies specialization in Foreign Languages and Literatures consists of preparatory language study at the lower division (1000 and 2000 level), and 33 hours of advanced language, theory, and culture study in the upper division (3000 level and above).

All coursework for the major must be completed with minimum grades of C.

Required Foundation Coursework | 18 Credits

Code	Title	Credits
FRE 1130	Beginning French 1	5
FRE 1131	Beginning French 2	5
FRE 2220	Intermediate French 1	4
FRE 2221	Intermediate French 2	4
Total Credits		18

Required Core Coursework | 33 Credits

Code	Title	Credits
Advanced Language and Culture		
FRE 3300	Grammar and Composition	3
FRE 3320	Composition and Stylistics	3
Advanced Coursework		
Culture		
Select one:		3
FRE 3500	France through the Ages	
FRE 3502	Francophone Cultures	
FRE 3564	Contemporary French Culture	
Literature		
FRW 3100	Introduction to French Literature 1	3
or FRW 3101	Introduction to French Literature 2	
Linguistics		
Select one:		3
FRE 4780	Introduction to French Phonetics and Phonology	
FRE 4822	Sociolinguistics of French	
FRE 4850	Introduction to the Structure of French	
FRE 4501	The French Language in the Americas	
Senior Seminar		
FRW 4932	Senior Seminar in French Literature	3
4000-level Electives		
Select 6 credits:		6

FRE 4501	The French Language in the Americas	
FRE 4780	Introduction to French Phonetics and Phonology	
FRE 4822	Sociolinguistics of French	
FRE 4850	Introduction to the Structure of French	
FRE 4905	Individual Work	
FRE 4906	Honors Thesis	
FRE 4930	Revolving Topics in French Studies	
FRT 4523	European Identities, European Cinemas	
FRW 4212	Readings in 17th Century French Prose	
FRW 4273	Readings in 18th Century French Literature	
FRW 4281	Readings in the 20th Century French Novel	
FRW 4324	Readings in 20th Century French Theatre	
FRW 4391	Concepts of French Cinema	
FRW 4532	Survey of French Romantic Literature	
FRW 4552	Introduction to Realism and Naturalism	
FRW 4762	Readings in Francophone Literatures and Cultures (excluding the Caribbean and Sub-Saharan Africa)	
FRW 4770	African and Caribbean Literatures	
Critical Concentration		
Select 9 credits from one of the following concentrations (although courses may appear in more than one group they may be counted toward only one group):		9
Intensive Area Studies: French and Francophone Studies (recommended for those planning to pursue careers requiring advanced level skills in French or graduate work in French and Francophone studies)		
Comparative Cultural Studies		
Film and Visual Culture		
Literary Studies		
Medieval and Early Modern Studies		
Total Credits		33

Overseas Studies

Students specializing in French and Francophone studies are encouraged to study abroad for a summer or a semester. Students regularly participate in UF Programs in Paris or UF-approved study-abroad programs in other regions of France or in the Francophone world. Students also can consider the opportunities offered with UF's reciprocal exchange agreements with Rennes II and Sciences Po. Students in approved overseas study programs can earn up to 15 credits beyond the 120 credits required for graduation. Refer to UF International Center information and contact a department advisor. More Info (https://internationalcenter.ufl.edu/study-abroad)

Placement

Students with previous training should speak with the department before registering.

- Students with previous study or experience in French should enroll in FRE 1134 or use standardized French examination scores (AICE, AP, CLEP or IB) to determine their appropriate placement in a higher-level course. Such students cannot enroll in FRE 1130 or FRE 1131.
- Any student who has lived in a French-speaking country for more than a year or who is francophone must consult a department advisor before enrolling in any FRE course.

Research

Students with an upper-division GPA of 3.5 are encouraged to write a thesis for high or highest honors at graduation. Students planning to specialize in French and Francophone studies should see a department advisor before registering.

Related French Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- French and Francophone Studies minor (p. 709)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160901&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete FRE 1130 or higher-level French course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete FRE 1131 or maintain higher-level French course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete FRE 2220 or a higher-level French course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). 3000 level or above critical concentration courses outside of French may count toward the 3000 level or above electives outside of the major.

Beginning language is best started semester 1 and absolutely no later than semester 3, but study abroad or accredited intensive summer courses can be used to fall in with an ideal semester progression.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		5
FRE 1130	Beginning French 1 (**Critical Tracking**)	
FRE 1134	Accelerated French Review (**Critical Tracking**) [1]	
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
Select one:		5
FRE 1131	Beginning French 2 (**Critical Tracking**)	
FRE 1134	Accelerated French Review (**Critical Tracking**) [1]	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological or Physical Sciences (area **not** taken in semester one)		3
State Core Gen Ed Mathematics (p. 23)		3
Science laboratory (Gen Ed Biological or Physical Sciences)		1
	Credits	15
Semester Three		
FRE 2220	Intermediate French 1 (**Critical Tracking**)	4
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3

Elective		3
	Credits	16
Semester Four		
FRE 2221	Intermediate French 2	4
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences and Diversity		3
Elective (3000 level or above, not in major)		3
Elective		3
	Credits	16
Semester Five		
FRE 3300	Grammar and Composition	3
Select one literature elective:		3
FRW 3100	Introduction to French Literature 1 (Gen Ed Humanities and International)	
FRW 3101	Introduction to French Literature 2 (Gen Ed Humanities and International)	
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
FRE 3780L	Corrective Phonetics (recommended elective)	3
	Credits	15
Semester Six		
FRE 3320	Composition and Stylistics	3
Select one culture elective:		3
FRE 3500	France through the Ages (Gen Ed Humanities and International)	
FRE 3502	Francophone Cultures (Gen Ed Humanities and International)	
FRE 3564	Contemporary French Culture (Gen Ed Humanities and International)	
Critical concentration courses		6
Elective (3000 level or above, not in major)		3
	Credits	15
Semester Seven		
Select one linguistics elective:		3
FRE 4501	The French Language in the Americas	
FRE 4780	Introduction to French Phonetics and Phonology	
FRE 4850	Introduction to the Structure of French	
FRE 4822	Sociolinguistics of French	
French and Francophone studies elective (4000 level)		3
Critical concentration course		3
Elective (3000 level or above, not in major)		3
Elective or senior thesis option		2-3
	Credits	14-15
Semester Eight		
FRW 4932	Senior Seminar in French Literature	3
French and Francophone studies elective (4000 level)		3
Electives (3000 level or above, not in major)		9
	Credits	15
	Total Credits	120

[1] Freshmen entering with previous studies in French will begin at a more advanced level. Refer to the academic advising section for placement information. Students, who by virtue of their placement examinations are enrolled in a course higher than their standing, are exempt from the requirements of that particular plan.

Critical Concentration Courses| 9 Credits from One Concentration

Although courses may appear in more than one group they may be counted toward only one group

Code	Title	Credits
Intensive Area Studies: French and Francophone Studies		
Recommended for those planning to pursue careers requiring advanced level skills in French or graduate work in French and Francophone studies		
FRE 3070	Accelerated Introduction to French	5
FRE 3224	Applied French	1-5
FRE 3410	French Conversation and Interaction	3
FRE 3442	Contemporary French Commerce	3
FRE 3500	France through the Ages	3

FRE 3502	Francophone Cultures	3
FRE 3564	Contemporary French Culture	3
FRE 3780L	Corrective Phonetics	3
FRE 4501	The French Language in the Americas	3
FRE 4780	Introduction to French Phonetics and Phonology	3
FRE 4822	Sociolinguistics of French	3
FRE 4850	Introduction to the Structure of French	3
FRE 4930	Revolving Topics in French Studies	1-5
FRT 3004	Monuments and Masterpieces of France	3
FRT 3520	French Cinema	4-8
FRT 3561	Women in French Literature and/or Cinema	3-4
FRW 3100	Introduction to French Literature 1	3
FRW 3101	Introduction to French Literature 2	3
FRW 3930	Rotating Topics in French and Francophone Literature	3
FRW 4212	Readings in 17th Century French Prose	3
FRW 4273	Readings in 18th Century French Literature	3
FRW 4281	Readings in the 20th Century French Novel	3
FRW 4324	Readings in 20th Century French Theatre	3
FRW 4391	Concepts of French Cinema	4
FRW 4532	Survey of French Romantic Literature	3
FRW 4552	Introduction to Realism and Naturalism	3
FRW 4762	Readings in Francophone Literatures and Cultures (excluding the Caribbean and Sub-Saharan Africa)	3
FRW 4770	African and Caribbean Literatures	3
Comparative Cultural Studies		
ABT 3500	Arabic Culture	3
ABT 4131	The Qur'an as Literature	3
ARA 3510	The Arab Woman	3
CHI 3403	Chinese Calligraphy	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CZT 3564	Modern Czech Culture and Society	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3003	German Culture and Civilization 1	3
GET 3004	Modern German Culture and Civilization	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
HAI 3930	Haitian Culture and Society	3
HAT 3564	Haitian Culture and Society	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JMT 3500	Jamaican Creole, Reggae, and Rastafari	3
JPT 3500	Japanese Culture	3
JPT 4502	Japanese Folklore	3
RUT 3443	War and Peace	3
RUT 3500	Russian Cultural Heritage	3
RUT 3501	Contemporary Russian Culture and Society	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3504	Russia Today	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3524	Russia through Film	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 4450	Russian Modernism	3
VTT 3500	Vietnamese Culture	3
YOT 3500	Yoruba Diaspora in the New World	3
Film and Visual Culture		
CHI 4930	Special Topics in Chinese Studies	3

CHT 3391	Chinese Film and Media	4
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	4
FRT 3520	French Cinema	4
FRT 3561	Women in French Literature and/or Cinema	3-4
FRT 4523	European Identities, European Cinemas	4
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
HBR 4930	Special Topics	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPN 4930	Special Topics in Japanese Studies	3
JPT 3391	Introduction to Japanese Film	4
JPT 3702	Japanese Visual Culture	3
PLT 3520	Polish Cinema	4
RUT 3524	Russia through Film	3
SSA 4930	Special Topics in African Studies (African Film)	3
Literary Studies		
ABT 3130	Arabic Literary Heritage 1	3
ABT 4131	The Qur'an as Literature	3
CHI 4930	Special Topics in Chinese Studies	3
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3200	Medieval Literary Culture	3
GET 3501	History, Literature and Arts of Berlin	3
GET 3580	Representations of War in Literature and Visual Media	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
GET 4930	Variable Topics in German Studies	3
HAT 3503	Haitian Culture and Literature in Translation	3
HBR 4930	Special Topics	3
HBT 3223	Identity and Dissent in the Hebrew Short Story	3
HBT 3233	Israeli History and the Contemporary Novel	3
HBT 3563	Women in Modern Hebrew Fiction	3
HBT 3564	Motherhood in Modern Hebrew Literature	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
PLT 3930	Special Topics in Polish Studies	3
RUT 3101	Russian Masterpieces	3
RUT 3441	Tolstoy and Dostoevsky	3
RUT 3442	Themes from Russian Literature	3
RUT 3443	War and Peace	3
RUT 3452	Russian Literature of the Twentieth Century	3

RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3930	Variable Topics in Russian Studies	3
RUT 4440	Pushkin and Gogol	3
RUT 4450	Russian Modernism	3
SST 4502	African Oral Literature	3
SSW 3303	Swahili Oral Literature	3
SSW 4713	African Women Writers	3
VTN 4930	Special Topics in Vietnamese Studies	3
YOR 4502	Yoruba Oral Literature	3
Medieval and Early Modern Studies		
ARA 3510	The Arab Woman	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
GET 3200	Medieval Literary Culture	3
ITT 3431	Italy and Pilgrimages	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
MEM 3003	Introduction to the Medieval World	3
MEM 3300	Castles and Cloisters: An Introduction to Medieval Communities	3
MEM 3301	Palaces and Cities: An Introduction to Early Modern Communities	3
MEM 3730	Studies in the Holy Roman Empire	3
MEM 3805	Research Methods in Medieval and Early Modern Studies	1
MEM 3931	Variable Topics in Medieval and Early Modern Studies	3

Academic Learning Compact

The Foreign Languages and Literatures (FLL) major enables students to achieve communicative competence in their language(s) of specialization. Students will become knowledgeable in the culture and literature and/or linguistics associated with their language area(s) such that they will be able to critically analyze and evaluate authentic sources in the target language(s) and formulate independent, critical perspectives in the target language(s). Further, students will learn the intercultural skills and practical know-how necessary to negotiate traveling, studying, and living in the target culture(s).

Before Graduating Students Must

- Satisfy the Florida statutes for the College-Level Academic Skills Requirement.
- Complete requirements for the baccalaureate degree, as determined by faculty.
- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and define cultural concepts, literary production, and/or linguistic structure in language(s) of specialization.

Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I, R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

French and Francophone Studies Minor

French is considered a strategic language for global communications in matters of security, diplomacy, health, business, and cultural exchange. A minor in French and Francophone studies enhances language skills and cultural competency and complements majors from the humanities to the sciences, engineering, business, and the arts.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 16 | Completed with minimum grades of C
- **Contact:** 301 Pugh Hall (http://campusmap.ufl.edu/?loc=0072)
- **Related French and Francophone Studies Programs**

The minor is open to all UF undergraduates with a minimum overall 2.0 GPA.

- At least three courses (none can be individual work) of no fewer than three credits each must be at the 3000 level or above.
- Of the total credits, no more than three may be individual work.
- A minimum of nine credits must be completed at UF.
- Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
FRE 2221	Intermediate French 2	4
FRE 3300	Grammar and Composition	3
FRE 3320	Composition and Stylistics	3
FRE, FRW, or FRT courses [1]		6
Total Credits		16

1 At a level higher than FRE 2221.

Related French and Francophone Studies Programs

- French and Francophone Studies specialization of the B.A. in Foreign Languages and Literatures (http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/FFS_BA)

Geography

Geography is the science of place, space, and environment. Each place on earth is distinguished by a unique mix of natural resources, cultural practices, and socioeconomic and political systems. Geographers study what makes each place unique, as well as the connections and interactions between places.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 712) | B.A.: Environmental Geosciences (p. 734) | Bachelor of Science (p. 723) | B.A.: Medical Geography in Global Health (p. 717) | B.S.: Medical Geography in Global Health (p. 728)

- **Credits for Degree:** 120
- **Contact:** Email (liangmao@ufl.edu)
- **Additional Information**
- **Related Geography Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Geography offers exciting undergraduate degrees at UF. Students learn from world-renowned faculty and award-winning mentors, and contribute to groundbreaking research, all while studying topics that have great environmental and social significance. Geography is an integrated and highly interdisciplinary field of study spanning the physical world and society. It is also a hands-on discipline, with a strong emphasis on computer-based tools and field studies.

Geographers can choose to study an enormous range of subjects, essentially anything that has a spatial component. Students who major in geography use the lens of space to examine issues as diverse as climate variability and change on the African continent, malaria outbreaks in Africa and South America, deforestation and land conflict in the Amazon, and the origin and spread of blues music in the Southeastern United States. Across the globe, geographers study tropical cyclones, river restoration, disease outbreaks, the role of parks and other protected areas, changes in land cover, forest management and fragmentation, community conservation, emerging infectious diseases, environmental influences on the elderly, and economic development.

Geography explores the relationship between human and biophysical systems and deals with some of the most critical issues of our time such as environmental hazards, climate change, sustainability of resource management systems, international development, and community and urban planning. Understanding the concept of place, including how and why places differ from each other, is a central concern. Students who have social and economic interests can enter into careers in international development, urban and regional planning, geographic information systems, and environmental consultancy. Students who combine the study of socioeconomic factors and the biophysical world can work in resource management, conservation, environmental assessment, and watershed and coastal planning.

Coursework for the Major

The geography major has five different programs: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Arts in environmental geosciences (a joint program with the Department of Geological Sciences), the Bachelor of Arts in medical geography in global health, and the Bachelor of Science in medical geography in global health. Coursework for the major will depend upon the program, which are all flexible. Students must earn a minimum grade of C in all coursework for the major.

Students who are uncertain of a program should contact the Department of Geography's undergraduate coordinator for information and curriculum planning.

Required Coursework

All majors take some techniques courses, including GEO 3162C and a minimum of two additional courses that involve working with data and computers. All majors take a regional course, focusing on the countries, cultures and landscapes of one region in the world. The systematic courses include specialized courses in human or environmental/physical geography, but majors can also take additional techniques courses as part of this requirement. Students can concentrate coursework in economic geography and planning, environmental/physical geography, geospatial technologies, medical geography, or natural resource management.

Coursework for the major will depend upon the degree program. Courses for each program are listed below under Critical Tracking and Model Semester Plan.

Bachelor of Arts in Geography

Best suited for students interested in careers in urban and regional planning, business geography, medical geography, and geographic education, or for students who want a broad overview of the discipline with a focus on human geography.

Bachelor of Arts in Environmental Geosciences

A joint program between the Department of Geography and the Department of Geological Sciences and is intended for students interested in land and water aspects of the environment. The degree focuses on human impacts, water and mineral resource exploitation and management, disasters, environmental planning, earth science education, or environmental law.

Bachelor of Science in Geography

Best suited for someone who wishes to pursue a career in environmental consulting or graduate work in physical geography or related natural sciences, including atmospheric science, geosciences, hydrologic sciences, or meteorology.

Bachelor of Arts in Medical Geography in Global Health

Intended for students interested in social and cultural aspects of medical geography and global health and disease issues. The degree focuses on human impacts, cultural and social aspects of health and disease, and public health planning and management.

Bachelor of Science in Medical Geography in Global Health
Best suited for someone who wishes to pursue a career in public or animal health or disease management or graduate work in medical geography, public health or related natural sciences, including ecology, biology, or epidemiology/public health. This specialization offers the flexibility for students to prepare for admission to health professions programs.

Related Geography Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Geography, UF Online (p. 744)
- Bachelor of Arts in Geography, Environmental Geosciences, UF Online (p. 740)
- Geography minor (p. 739)
- Geography minor, UF Online (p. 739)
- Geospatial Information Analysis certificate (p. 771)
- Medical Geography certificate (p. 861)
- Meteorology and Climatology certificate (p. 862)

Academic Learning Compact

A major in geography enables students to know the earth's physical environment, to learn social, cultural and economic concepts from spatial and regional perspectives, and to understand the relationship between environment and society. Students will learn how geographic techniques, skills and concepts are applied in the subfields of geography. Computer-based lab assignments teach students how to analyze geographic information and to apply an interpretation of data toward problem solving or modeling. They will be able to interpret and to effectively communicate information spatially, graphically and/or with statistics.

The Bachelor of Arts in geography enables students to learn how geographic techniques, skills and concepts are applied in various subfields of geography. The Bachelor of Science enables students to learn basic concepts in sciences related to the earth and its atmosphere.

Before Graduating Students Must

- Complete a capstone exam in GEO 4930, as developed by geography faculty.
- Complete a capstone portfolio in GEO 4930, evaluated by geography faculty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and describe the physical and human characteristics of Earth and its regions, the essentials of human#environment interactions, and the techniques of geographic science.

Critical Thinking

2. Analyze geographic information and apply interpretation of data toward problem solving or modeling.

Communication

3. Interpret and effectively communicate information spatially, graphically and/or with statistics.

Curriculum Map

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Courses	SLO 1	SLO 2	SLO 3
GEA 2000-4000 level Regional Geography	R		
GEO 2000 level Human Geography	I		
GEO 2200	I		
GEO 2200L	R		
GEO 3162C	I	I	R
GEO 4930	R, A	A	A
GIS 3043 and GIS 4001C	R	R	R
STA 2023			I

B.A. Only Plus 15 additional credits in the department	R	R	R
B.S. Only Plus 12 additional credits in the department and 22 credits outside the department with CHM, GLY, MET, PHY, SWS prefixes	R	R	R

Assessment Types

- Capstone exam
- Portfolio

Geography | BA

Geography is the science of place, space, and environment. Each place on earth is distinguished by a unique mix of natural resources, cultural practices, and socioeconomic and political systems. Geographers study what makes each place unique, as well as the connections and interactions between places.

About this Program

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Geographers can choose to study an enormous range of subjects, essentially anything that has a spatial component. Students who major in geography use the lens of space to examine issues as diverse as climate variability and change on the African continent, malaria outbreaks in Africa and South America, deforestation and land conflict in the Amazon, and the origin and spread of blues music in the Southeastern United States. Across the globe, geographers study tropical cyclones, river restoration, disease outbreaks, the role of parks and other protected areas, changes in land cover, forest management and fragmentation, community conservation, emerging infectious diseases, environmental influences on the elderly, and economic development.

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- Geospatial Information Analysis certificate (p. 771)
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- Meteorology and Climatology certificate (p. 862)

Bachelor of Arts in Geography

The Bachelor of Arts in geography requires 33-35 credits of coursework in geography, plus 3 credits of Statistics. Students must earn a minimum grade of C in all coursework for the major.

Required Coursework

Code	Title	Credits
GEO 2200	Physical Geography	4
& 2200L	and Physical Geography Laboratory	
Select one:		3
GEO 2410	Social Geography	
GEO 2420	Introduction to Human Geography	
GEO 2500	Global and Regional Economies	
GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
Select two techniques courses:		6-8
GEO 4167C	Intermediate Quantitative Analysis for Geographers	
GIS 3001C	Spatial Maps and Graphs	
GIS 3043	Foundations of Geographic Information Systems	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
GIS 4113	Introduction to Spatial Networks	
GIS 4115	Applied Geostats	
GEO 4930	Senior Seminar	1

Select one regional geography course:		3
GEA 2270	Geography of Florida	
GEA 3405	Geography of Latin America	
GEA 3500	Geography of Europe	
GEA 3600	Geography of Africa	
GEA 4465	Amazonia	
Select four systematic courses:		12-16
GEO 2242	Extreme Weather	
GEO 2426	Pop Music and Culture: a Geographic Perspective	
GEO 3250	Climatology	
GEO 3280	Principles of Geographic Hydrology	
GEO 3315	Geography of Crop Plants	
GEO 3341	Extreme Floods	
GEO 3352	The Human Footprint on Landscape	
GEO 3372	Conservation of Resources	
GEO 3427	Plants, Health and Spirituality	
GEO 3430	Population Geography	
GEO 3452	Introduction to Medical Geography	
GEO 3454	Peoples and Plagues	
GEO 3502	Economic Geography	
GEO 3602	Urban and Business Geography	
GEO 3611	Housing, People and Places in a Spatially Diverse America	
GEO 3803	Geography of Alcohol	
GEO 3930	Special Topics	
GEO 4167C	Intermediate Quantitative Analysis for Geographers	
GEO 4281	River Forms and Processes	
GEO 4285	Models in Geographic Hydrology	
GEO 4300	Environmental Biogeography	
GEO 4306C	Geography of Vector-borne Diseases	
GEO 4554	Regional Development	
GEO 4612	Shelter and Care Options for U.S. Elderly	
GEO 4938	Selected Topics in Geography	
GEO 4970	Honors Thesis	
GIS 3043	Foundations of Geographic Information Systems	
GIS 2002	The Digital Earth	
GIS 3420C	GIS Models for Public Health	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
GIS 4102C	GIS Programming	
GIS 4113	Introduction to Spatial Networks	
GIS 4115	Applied Geostats	
GLY 4734	Coastal Morphology and Processes	
MET 3503	Weather and Forecasting	
MET 4532	Hurricanes	
MET 4560	Atmospheric Teleconnections	
MET 4750	Spatial Analysis of Atmospheric Data using GIS	
Total Credits		33-39

*The same course may **not** be used to satisfy requirements for more than one bulleted group.*

Transfer coursework is considered on a case-by-case basis. Upper division transfer courses with no UF equivalent will be substituted as GEO 4938.

Related Coursework

- STA 2023

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450701&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete 1 geography course (GEA 1000 not acceptable)
- 2.0 UF GPA required

Semester 4

- Complete 1 additional geography course (1 of the 2 must be GEO 2200; GEA 1000 not acceptable) or complete STA 2023 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses (STA 2023 and 2 geography courses, 1 of which must be GEO 2200; GEA 1000 not acceptable) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
GEO 2410	Social Geography (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and Diversity)	
GEO 2420	Introduction to Human Geography (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and International)	
GEO 2500	Global and Regional Economies (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
State Core Gen Ed Biological Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Foreign language		4-5
	Credits	13-14
Semester Two		
GEO 2200 & 2200L	Physical Geography and Physical Geography Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Foreign language		3-5
	Credits	13-15
Semester Three		
Systematic GEO course (2000/3000 level)		3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Elective or foreign language if 4-3-3 option		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15

Semester Four		
Systematic GEO course (3000/4000 level)		3
Elective		3
Elective (3000 level or above, not in major)		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15
Semester Five		
Regional GEA course (2000/3000/4000 level)		3
GEO 3162C	Introduction to Quantitative Analysis for Geographers (Gen Ed Physical Sciences)	4
Electives (3000 level or above, not in major)		6
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Six		
Systematic GEO course (3000/4000 level)		3
GIS 3043 or GIS 3001C	Foundations of Geographic Information Systems or Spatial Maps and Graphs	4
Elective		3
Elective (3000 level or above, not in major)		3
Gen Ed Humanities		3
	Credits	16
Semester Seven		
GEO 4930	Senior Seminar	1
GEO/GIS technique course (4000 level)		3-4
Electives		9
Elective (3000 level or above, not in major)		3
	Credits	16-17
Semester Eight		
Systematic GEO course (3000/4000 level)		3
Elective (3000 level or above, not in major)		3
Electives		10
	Credits	16
	Total Credits	120

Electives to reach the 120-credit minimum will vary depending on whether students select minimum or maximum credit course options.

Academic Learning Compact

A major in geography enables students to know the earth's physical environment, to learn social, cultural and economic concepts from spatial and regional perspectives, and to understand the relationship between environment and society. Students will learn how geographic techniques, skills and concepts are applied in the subfields of geography. Computer-based lab assignments teach students how to analyze geographic information and to apply an interpretation of data toward problem solving or modeling. They will be able to interpret and to effectively communicate information spatially, graphically and/or with statistics.

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- Complete a capstone exam in GEO 4930, as developed by geography faculty.
- Complete a capstone portfolio in GEO 4930, evaluated by geography faculty.
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Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and describe the physical and human characteristics of Earth and its regions, the essentials of human#environment interactions, and the techniques of geographic science.

Critical Thinking

2. Analyze geographic information and apply interpretation of data toward problem solving or modeling.

Communication

3. Interpret and effectively communicate information spatially, graphically and/or with statistics.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
GEA 2000-4000 level Regional Geography	R		
GEO 2000 level Human Geography	I		
GEO 2200	I		
GEO 2200L	R		
GEO 3162C	I	I	R
GEO 4930	R, A	A	A
GIS 3043 and GIS 4001C	R	R	R
STA 2023			I
B.A. Only Plus 15 additional credits in the department	R	R	R
B.S. Only Plus 12 additional credits in the department and 22 credits outside the department with CHM, GLY, MET, PHY, SWS prefixes	R	R	R

Assessment Types

- Capstone exam
- Portfolio

Geography | BA | Medical Geography in Global Health

Geography is the science of place, space, and environment. Each place on earth is distinguished by a unique mix of natural resources, cultural practices, and socioeconomic and political systems. Geographers study what makes each place unique, as well as the connections and interactions between places.

About this Program

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Students who are uncertain of a program should contact the Department of Geography's undergraduate coordinator for information and curriculum planning.

Required Coursework

All majors take some techniques courses, including GEO 3162C and a minimum of two additional courses that involve working with data and computers. All majors take a regional course, focusing on the countries, cultures and landscapes of one region in the world. The systematic courses include specialized courses in human or environmental/physical geography, but majors can also take additional techniques courses as part of this requirement. Students can concentrate coursework in economic geography and planning, environmental/physical geography, geospatial technologies, medical geography, or natural resource management.

Coursework for the major will depend upon the degree program. Courses for each program are listed below under Critical Tracking and Model Semester Plan.

Bachelor of Arts in Geography

Best suited for students interested in careers in urban and regional planning, business geography, medical geography, and geographic education, or for students who want a broad overview of the discipline with a focus on human geography.

Bachelor of Arts in Environmental Geosciences

A joint program between the Department of Geography and the Department of Geological Sciences and is intended for students interested in land and water aspects of the environment. The degree focuses on human impacts, water and mineral resource exploitation and management, disasters, environmental planning, earth science education, or environmental law.

Bachelor of Science in Geography

Best suited for someone who wishes to pursue a career in environmental consulting or graduate work in physical geography or related natural sciences, including atmospheric science, geosciences, hydrologic sciences, or meteorology.

Bachelor of Arts in Medical Geography in Global Health

Intended for students interested in social and cultural aspects of medical geography and global health and disease issues. The degree focuses on human impacts, cultural and social aspects of health and disease, and public health planning and management.

Bachelor of Science in Medical Geography in Global Health

Best suited for someone who wishes to pursue a career in public or animal health or disease management or graduate work in medical geography, public health or related natural sciences, including ecology, biology, or epidemiology/public health. This specialization offers the flexibility for students to prepare for admission to health professions programs.

Related Geography Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Geography, UF Online (p. 744)
- Bachelor of Arts in Geography, Environmental Geosciences, UF Online (p. 740)
- Geography minor (p. 739)
- Geography minor, UF Online (p. 739)
- Geospatial Information Analysis certificate (p. 771)
- Medical Geography certificate (p. 861)
- Meteorology and Climatology certificate (p. 862)

Bachelor of Arts: Medical Geography in Global Health

The Bachelor of Arts in medical geography in global health requires a minimum of 33 credits of coursework, plus 3 credits of Statistics. Students must earn a minimum grade of C in all coursework for the major.

Required Coursework

Code	Title	Credits
GEO 2200	Physical Geography	4
& 2200L	and Physical Geography Laboratory	
Select one:		3
GEO 2410	Social Geography	
GEO 2420	Introduction to Human Geography	
GEO 2500	Global and Regional Economies	
GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
Select two technique courses:		6-8
GIS 3043	Foundations of Geographic Information Systems (required)	
Select one:		
GEO 4167C	Intermediate Quantitative Analysis for Geographers	
GIS 3001C	Spatial Maps and Graphs	
GIS 3420C	GIS Models for Public Health	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
GIS 4113	Introduction to Spatial Networks	
GIS 4115	Applied Geostats	
GEO 4930	Senior Seminar	1
Select one regional geography course:		3
GEA 2270	Geography of Florida	
GEA 3405	Geography of Latin America	
GEA 3500	Geography of Europe	
GEA 3600	Geography of Africa	
GEA 4465	Amazonia	
Select two medical geography core courses:		6
GEO 3452	Introduction to Medical Geography	
GEO 3454	Peoples and Plagues	
GEO 3427	Plants, Health and Spirituality	
GEO 4612	Shelter and Care Options for U.S. Elderly	
Select two geography elective courses:		6-8
GEO 2242	Extreme Weather	
GEO 3250	Climatology	
GEO 3280	Principles of Geographic Hydrology	
GEO 3315	Geography of Crop Plants	
GEO 3341	Extreme Floods	
GEO 3352	The Human Footprint on Landscape	
GEO 3372	Conservation of Resources	
GEO 3427	Plants, Health and Spirituality	
GEO 3430	Population Geography	
GEO 3452	Introduction to Medical Geography	
GEO 3454	Peoples and Plagues	
GEO 3502	Economic Geography	
GEO 3602	Urban and Business Geography	
GEO 3611	Housing, People and Places in a Spatially Diverse America	
GEO 3803	Geography of Alcohol	
GEO 3930	Special Topics	
GEO 4167C	Intermediate Quantitative Analysis for Geographers	
GEO 4281	River Forms and Processes	
GEO 4285	Models in Geographic Hydrology	
GEO 4300	Environmental Biogeography	
GEO 4306C	Geography of Vector-borne Diseases	
GEO 4554	Regional Development	
GEO 4612	Shelter and Care Options for U.S. Elderly	
GEO 4938	Selected Topics in Geography	
GEO 4970	Honors Thesis	

GIS 2002	The Digital Earth
GIS 3420C	GIS Models for Public Health
GIS 4021C	Aerial Photo Interpretation
GIS 4037	Digital Image Processing
GIS 4102C	GIS Programming
GIS 4113	Introduction to Spatial Networks
GIS 4115	Applied Geostats
GLY 4734	Coastal Morphology and Processes
MET 3503	Weather and Forecasting
MET 4532	Hurricanes
MET 4560	Atmospheric Teleconnections
MET 4750	Spatial Analysis of Atmospheric Data using GIS
Total Credits	33-37

*The same course may **not** be used to satisfy requirements for more than one bulleted group.*

Transfer coursework is considered on a case-by-case basis. Upper division transfer courses with no UF equivalent will be substituted as GEO 4938.

Related Coursework

- STA 2023

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450701&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete 1 geography course (GEA 1000 not acceptable)
- 2.0 UF GPA required

Semester 4

- Complete 1 additional geography course (1 of the 2 must be GEO 2200; GEA 1000 not acceptable) or complete STA 2023 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses (STA 2023 and 2 geography courses, 1 of which must be GEO 2200; GEA 1000 not acceptable) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
GEO 2200	Physical Geography (**Critical Tracking**; Gen Ed Physical Sciences)	3
GEO 2200L	Physical Geography Laboratory (Gen Ed Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	13
Semester Two		
Select one:		3
GEO 2410	Social Geography (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and Diversity)	
GEO 2420	Introduction to Human Geography (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and International)	
GEO 2500	Global and Regional Economies (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Mathematics (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Three		
Medical geography core course [1]		3
State Core Gen Ed Biological or Physical Sciences (p. 23) [2]		3
Elective		3
Foreign language		5
	Credits	14
Semester Four		
Regional geography course		3
Gen Ed Social and Behavioral Sciences		3
Electives		4
Foreign language		5
	Credits	15
Semester Five		
GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
GIS 3043	Foundations of Geographic Information Systems	4
Medical geography core course		3
Gen Ed Biological Sciences		3
Elective		3
	Credits	17
Semester Six		
GIS 3420C	GIS Models for Public Health (recommended second techniques course)	3
Elective (3000 level or above, not in major)		3
Elective or Gen Ed Biological Sciences (if needed)		3
Gen Ed Humanities		3
Elective		3
	Credits	15
Semester Seven		
Elective		3
Geography elective		3-4
Electives (3000 level or above, not in major)		9
	Credits	15-16
Semester Eight		
GEO 4930	Senior Seminar	1
Geography elective		3
Electives (3000 level and above, not in major)		6
Electives		6
	Credits	16
	Total Credits	120

[1] GEO 3452 or GEO 3454 recommended.

[2] Biological Science recommended.

Electives to reach the 120-credit minimum will vary depending on whether students select minimum or maximum credit course options.

Academic Learning Compact

A major in geography enables students to know the earth's physical environment, to learn social, cultural and economic concepts from spatial and regional perspectives, and to understand the relationship between environment and society. Students will learn how geographic techniques, skills and concepts are applied in the subfields of geography. Computer-based lab assignments teach students how to analyze geographic information and to apply an interpretation of data toward problem solving or modeling. They will be able to interpret and to effectively communicate information spatially, graphically and/or with statistics.

The Bachelor of Arts in geography enables students to learn how geographic techniques, skills and concepts are applied in various subfields of geography. The Bachelor of Science enables students to learn basic concepts in sciences related to the earth and its atmosphere.

Before Graduating Students Must

- Complete a capstone exam in GEO 4930, as developed by geography faculty.
- Complete a capstone portfolio in GEO 4930, evaluated by geography faculty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and describe the physical and human characteristics of Earth and its regions, the essentials of human#environment interactions, and the techniques of geographic science.

Critical Thinking

2. Analyze geographic information and apply interpretation of data toward problem solving or modeling.

Communication

3. Interpret and effectively communicate information spatially, graphically and/or with statistics.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
GEA 2000-4000 level Regional Geography	R		
GEO 2000 level Human Geography	I		
GEO 2200	I		
GEO 2200L	R		
GEO 3162C	I	I	R
GEO 4930	R, A	A	A
GIS 3043 and GIS 4001C	R	R	R
STA 2023			I
B.A. Only Plus 15 additional credits in the department	R	R	R
B.S. Only Plus 12 additional credits in the department and 22 credits outside the department with CHM, GLY, MET, PHY, SWS prefixes	R	R	R

Assessment Types

- Capstone exam
- Portfolio

Geography | BS

Geography is the science of place, space, and environment. Each place on earth is distinguished by a unique mix of natural resources, cultural practices, and socioeconomic and political systems. Geographers study what makes each place unique, as well as the connections and interactions between places.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 712) | B.A.: Environmental Geosciences (p. 734) | Bachelor of Science (p. 723) | B.A.: Medical Geography in Global Health (p. 717) | B.S.: Medical Geography in Global Health (p. 728)
- **Credits for Degree:** 120
- **Contact:** Email (liangmao@ufl.edu)
- **Additional Information**
- **Related Geography Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Geography offers exciting undergraduate degrees at UF. Students learn from world-renowned faculty and award-winning mentors, and contribute to groundbreaking research, all while studying topics that have great environmental and social significance. Geography is an integrated and highly interdisciplinary field of study spanning the physical world and society. It is also a hands-on discipline, with a strong emphasis on computer-based tools and field studies.

Geographers can choose to study an enormous range of subjects, essentially anything that has a spatial component. Students who major in geography use the lens of space to examine issues as diverse as climate variability and change on the African continent, malaria outbreaks in Africa and South America, deforestation and land conflict in the Amazon, and the origin and spread of blues music in the Southeastern United States. Across the globe, geographers study tropical cyclones, river restoration, disease outbreaks, the role of parks and other protected areas, changes in land cover, forest management and fragmentation, community conservation, emerging infectious diseases, environmental influences on the elderly, and economic development.

Geography explores the relationship between human and biophysical systems and deals with some of the most critical issues of our time such as environmental hazards, climate change, sustainability of resource management systems, international development, and community and urban planning. Understanding the concept of place, including how and why places differ from each other, is a central concern. Students who have social and economic interests can enter into careers in international development, urban and regional planning, geographic information systems, and environmental consultancy. Students who combine the study of socioeconomic factors and the biophysical world can work in resource management, conservation, environmental assessment, and watershed and coastal planning.

Coursework for the Major

The geography major has five different programs: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Arts in environmental geosciences (a joint program with the Department of Geological Sciences), the Bachelor of Arts in medical geography in global health, and the Bachelor of Science in medical geography in global health. Coursework for the major will depend upon the program, which are all flexible. Students must earn a minimum grade of C in all coursework for the major.

Students who are uncertain of a program should contact the Department of Geography's undergraduate coordinator for information and curriculum planning.

Required Coursework

All majors take some techniques courses, including GEO 3162C and a minimum of two additional courses that involve working with data and computers. All majors take a regional course, focusing on the countries, cultures and landscapes of one region in the world. The systematic courses include specialized courses in human or environmental/physical geography, but majors can also take additional techniques courses as part of this requirement. Students can concentrate coursework in economic geography and planning, environmental/physical geography, geospatial technologies, medical geography, or natural resource management.

Coursework for the major will depend upon the degree program. Courses for each program are listed below under Critical Tracking and Model Semester Plan.

Bachelor of Arts in Geography

Best suited for students interested in careers in urban and regional planning, business geography, medical geography, and geographic education, or for students who want a broad overview of the discipline with a focus on human geography.

Bachelor of Arts in Environmental Geosciences

A joint program between the Department of Geography and the Department of Geological Sciences and is intended for students interested in land and water aspects of the environment. The degree focuses on human impacts, water and mineral resource exploitation and management, disasters, environmental planning, earth science education, or environmental law.

Bachelor of Science in Geography

Best suited for someone who wishes to pursue a career in environmental consulting or graduate work in physical geography or related natural sciences, including atmospheric science, geosciences, hydrologic sciences, or meteorology.

Bachelor of Arts in Medical Geography in Global Health

Intended for students interested in social and cultural aspects of medical geography and global health and disease issues. The degree focuses on human impacts, cultural and social aspects of health and disease, and public health planning and management.

Bachelor of Science in Medical Geography in Global Health

Best suited for someone who wishes to pursue a career in public or animal health or disease management or graduate work in medical geography, public health or related natural sciences, including ecology, biology, or epidemiology/public health. This specialization offers the flexibility for students to prepare for admission to health professions programs.

Related Geography Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Geography, UF Online (p. 744)
- Bachelor of Arts in Geography, Environmental Geosciences, UF Online (p. 740)
- Geography minor (p. 739)
- Geography minor, UF Online (p. 739)
- Geospatial Information Analysis certificate (p. 771)
- Medical Geography certificate (p. 861)
- Meteorology and Climatology certificate (p. 862)

Bachelor of Science in Geography

The Bachelor of Science in geography requires 30-32 credits of geography coursework and 24-25 credits of related coursework in physics, chemistry, geology, and soil science. Students must earn a minimum grade of C in all coursework for the major.

Required Coursework

Code	Title	Credits
GEO 2200	Physical Geography	4
& 2200L	and Physical Geography Laboratory	
GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
GEO 4930	Senior Seminar	1
Select one:		3
GEO 2410	Social Geography	
GEO 2420	Introduction to Human Geography	
GEO 2500	Global and Regional Economies	
Select two technique courses:		6-8
GEO 4167C	Intermediate Quantitative Analysis for Geographers	
GIS 3001C	Spatial Maps and Graphs	
GIS 3043	Foundations of Geographic Information Systems	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
GIS 4113	Introduction to Spatial Networks	
GIS 4115	Applied Geostats	
Select one regional geography course:		3
GEA 2270	Geography of Florida	
GEA 3405	Geography of Latin America	
GEA 3500	Geography of Europe	
GEA 3600	Geography of Africa	
GEA 4465	Amazonia	
Select three:		9-12
GEO 3250	Climatology	
GEO 3280	Principles of Geographic Hydrology	

GEO 3315	Geography of Crop Plants
GEO 3341	Extreme Floods
GEO 3352	The Human Footprint on Landscape
GEO 3372	Conservation of Resources
GEO 3452	Introduction to Medical Geography
GEO 4167C	Intermediate Quantitative Analysis for Geographers
GEO 4281	River Forms and Processes
GEO 4285	Models in Geographic Hydrology
GEO 4938	Selected Topics in Geography
GEO 4970	Honors Thesis
GIS 3043	Foundations of Geographic Information Systems
GIS 3420C	GIS Models for Public Health
GIS 4021C	Aerial Photo Interpretation
GIS 4037	Digital Image Processing
GIS 4113	Introduction to Spatial Networks
GIS 4115	Applied Geostats
MET 3503	Weather and Forecasting
MET 4532	Hurricanes
MET 4560	Atmospheric Teleconnections
MET 4750	Spatial Analysis of Atmospheric Data using GIS
Total Credits	30-35

*The same course may **not** be used to satisfy requirements for more than one bulleted group.*

Transfer coursework is considered on a case-by-case basis. Upper division transfer courses with no UF equivalent will be substituted as GEO 4938.

Related Coursework

Code	Title	Credits
CHM 1025	Introduction to Chemistry	2-3
or CHM 1030	Basic Chemistry Concepts and Applications 1	
GLY 2010C	Physical Geology	4
MET 1010	Introduction to Weather and Climate	3
PHY 2004	Applied Physics 1	4
& 2004L	and Laboratory for Applied Physics 1	
PHY 2005	Applied Physics 2	4
& 2005L	and Laboratory for Applied Physics 2	
STA 2023	Introduction to Statistics 1	3
SWS 3022	Introduction to Soils in the Environment	4
& 3022L	and Introduction to Soils in the Environment Laboratory	
Total Credits		24-25

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450701&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete 1 geography course (GEA 1000 not acceptable)
- 2.0 UF GPA required

Semester 4

- Complete 1 additional geography course (1 of the 2 must be GEO 2200; GEA 1000 not acceptable) or complete STA 2023 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses (STA 2023 and 2 geography courses, 1 of which must be GEO 2200; GEA 1000 not acceptable) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
GEO 2200	Physical Geography (**Critical Tracking**; Gen Ed Physical Sciences)	3
GEO 2200L	Physical Geography Laboratory (Gen Ed Physical Sciences)	1
MET 1010	Introduction to Weather and Climate (Gen Ed Physical Sciences)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Foreign language		5
	Credits	15
Semester Two		
Select one:		2-3
CHM 1025	Introduction to Chemistry (Gen Ed Physical Sciences)	
CHM 1030	Basic Chemistry Concepts and Applications 1 (Gen Ed Physical Sciences)	
Select one:		3
GEO 2410	Social Geography (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and Diversity)	
GEO 2420	Introduction to Human Geography (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and International)	
GEO 2500	Global and Regional Economies (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Foreign language		5
	Credits	13-14
Semester Three		
PHY 2004	Applied Physics 1	4
& 2004L	and Laboratory for Applied Physics 1 (Gen Ed Physical Sciences)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Elective		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	13
Semester Four		
Systematic GEO/MET course (3000/4000 level)		3
PHY 2005	Applied Physics 2	4
& 2005L	and Laboratory for Applied Physics 2 (Gen Ed Physical Sciences)	
Gen Ed Composition; Writing Requirement		3
Elective		3
State Core Gen Ed Mathematics, pure math (p. 23)		3
	Credits	16
Semester Five		
Regional GEA course (2000 - 4000 level)		3
GEO 3162C	Introduction to Quantitative Analysis for Geographers (Gen Ed Physical Sciences)	4
State Core Gen Ed Biological Sciences (p. 23)		3

Elective (3000 level or above, not in major)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16
Semester Six		
Systematic GEO/MET course (3000/4000 level)		3-4
Select one:		4
GIS 3001C	Spatial Maps and Graphs	
GIS 3043	Foundations of Geographic Information Systems (technique)	
GLY 2010C	Physical Geology (Gen Ed Physical Sciences)	4
Elective (3000 level or above, not in major)		3
Gen Ed Humanities		3
	Credits	17-18
Semester Seven		
GEO 4930	Senior Seminar	1
Systematic GEO/MET course (3000/4000 level)		3
SWS 3022	Introduction to Soils in the Environment	4
& 3022L	and Introduction to Soils in the Environment Laboratory (Gen Ed Physical Sciences)	
Elective		1
Electives (3000 level or above, not in major)		6
	Credits	15
Semester Eight		
Technique GEO/GIS course (3000 level or above)		3-4
Gen Ed Biological Sciences		3
Electives (3000 level or above, not in major)		6
Gen Ed Social and Behavioral Sciences (if needed)		3
	Credits	15-16
	Total Credits	120

Electives to reach the 120-credit minimum will vary depending on whether students select minimum or maximum credit course options.

Academic Learning Compact

A major in geography enables students to know the earth's physical environment, to learn social, cultural and economic concepts from spatial and regional perspectives, and to understand the relationship between environment and society. Students will learn how geographic techniques, skills and concepts are applied in the subfields of geography. Computer-based lab assignments teach students how to analyze geographic information and to apply an interpretation of data toward problem solving or modeling. They will be able to interpret and to effectively communicate information spatially, graphically and/or with statistics.

The Bachelor of Arts in geography enables students to learn how geographic techniques, skills and concepts are applied in various subfields of geography. The Bachelor of Science enables students to learn basic concepts in sciences related to the earth and its atmosphere.

Before Graduating Students Must

- Complete a capstone exam in GEO 4930, as developed by geography faculty.
- Complete a capstone portfolio in GEO 4930, evaluated by geography faculty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and describe the physical and human characteristics of Earth and its regions, the essentials of human#environment interactions, and the techniques of geographic science.

Critical Thinking

2. Analyze geographic information and apply interpretation of data toward problem solving or modeling.

Communication

3. Interpret and effectively communicate information spatially, graphically and/or with statistics.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
GEA 2000-4000 level Regional Geography	R		
GEO 2000 level Human Geography	I		
GEO 2200	I		
GEO 2200L	R		
GEO 3162C	I	I	R
GEO 4930	R, A	A	A
GIS 3043 and GIS 4001C	R	R	R
STA 2023			I
B.A. Only Plus 15 additional credits in the department	R	R	R
B.S. Only Plus 12 additional credits in the department and 22 credits outside the department with CHM, GLY, MET, PHY, SWS prefixes	R	R	R

Assessment Types

- Capstone exam
- Portfolio

Geography | BS | Medical Geography in Global Health

Geography is the science of place, space, and environment. Each place on earth is distinguished by a unique mix of natural resources, cultural practices, and socioeconomic and political systems. Geographers study what makes each place unique, as well as the connections and interactions between places.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 712) | B.A.: Environmental Geosciences (p. 734) | Bachelor of Science (p. 723) | B.A.: Medical Geography in Global Health (p. 717) | B.S.: Medical Geography in Global Health (p. 728)
- **Credits for Degree:** 120
- **Additional Information**
- **Contact:** Email (liangmao@ufl.edu)
- **Related Geography Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Geography offers exciting undergraduate degrees at UF. Students learn from world-renowned faculty and award-winning mentors, and contribute to groundbreaking research, all while studying topics that have great environmental and social significance. Geography is an integrated and highly interdisciplinary field of study spanning the physical world and society. It is also a hands-on discipline, with a strong emphasis on computer-based tools and field studies.

Geographers can choose to study an enormous range of subjects, essentially anything that has a spatial component. Students who major in geography use the lens of space to examine issues as diverse as climate variability and change on the African continent, malaria outbreaks in Africa and South America, deforestation and land conflict in the Amazon, and the origin and spread of blues music in the Southeastern United States. Across the globe, geographers study tropical cyclones, river restoration, disease outbreaks, the role of parks and other protected areas, changes in land cover, forest management and fragmentation, community conservation, emerging infectious diseases, environmental influences on the elderly, and economic development.

Geography explores the relationship between human and biophysical systems and deals with some of the most critical issues of our time such as environmental hazards, climate change, sustainability of resource management systems, international development, and community and urban planning. Understanding the concept of place, including how and why places differ from each other, is a central concern. Students who have social and economic interests can enter into careers in international development, urban and regional planning, geographic information systems, and environmental consultancy. Students who combine the study of socioeconomic factors and the biophysical world can work in resource management, conservation, environmental assessment, and watershed and coastal planning.

Coursework for the Major

The geography major has five different programs: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Arts in environmental geosciences (a joint program with the Department of Geological Sciences), the Bachelor of Arts in medical geography in global health, and the Bachelor of Science in medical geography in global health. Coursework for the major will depend upon the program, which are all flexible. Students must earn a minimum grade of C in all coursework for the major.

Students who are uncertain of a program should contact the Department of Geography's undergraduate coordinator for information and curriculum planning.

Required Coursework

All majors take some techniques courses, including GEO 3162C and a minimum of two additional courses that involve working with data and computers. All majors take a regional course, focusing on the countries, cultures and landscapes of one region in the world. The systematic courses include specialized courses in human or environmental/physical geography, but majors can also take additional techniques courses as part of this requirement. Students can concentrate coursework in economic geography and planning, environmental/physical geography, geospatial technologies, medical geography, or natural resource management.

Coursework for the major will depend upon the degree program. Courses for each program are listed below under Critical Tracking and Model Semester Plan.

Bachelor of Arts in Geography

Best suited for students interested in careers in urban and regional planning, business geography, medical geography, and geographic education, or for students who want a broad overview of the discipline with a focus on human geography.

Bachelor of Arts in Environmental Geosciences

A joint program between the Department of Geography and the Department of Geological Sciences and is intended for students interested in land and water aspects of the environment. The degree focuses on human impacts, water and mineral resource exploitation and management, disasters, environmental planning, earth science education, or environmental law.

Bachelor of Science in Geography

Best suited for someone who wishes to pursue a career in environmental consulting or graduate work in physical geography or related natural sciences, including atmospheric science, geosciences, hydrologic sciences, or meteorology.

Bachelor of Arts in Medical Geography in Global Health

Intended for students interested in social and cultural aspects of medical geography and global health and disease issues. The degree focuses on human impacts, cultural and social aspects of health and disease, and public health planning and management.

Bachelor of Science in Medical Geography in Global Health

Best suited for someone who wishes to pursue a career in public or animal health or disease management or graduate work in medical geography, public health or related natural sciences, including ecology, biology, or epidemiology/public health. This specialization offers the flexibility for students to prepare for admission to health professions programs.

Related Geography Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Geography, UF Online (p. 744)
- Bachelor of Arts in Geography, Environmental Geosciences, UF Online (p. 740)
- Geography minor (p. 739)
- Geography minor, UF Online (p. 739)
- Geospatial Information Analysis certificate (p. 771)
- Medical Geography certificate (p. 861)
- Meteorology and Climatology certificate (p. 862)

Bachelor of Science: Medical Geography in Global Health

The Bachelor of Science in medical geography in global health requires a minimum of 34 credits of geography coursework and 19 credits of related coursework in biology, chemistry, and statistics. Students must earn a minimum grade of C in all coursework for the major.

Required Coursework

Code	Title	Credits
GEO 2200	Physical Geography	4
& 2200L	and Physical Geography Laboratory	

GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
GEO 4930	Senior Seminar	1
Select one:		3
GEO 2410	Social Geography	
GEO 2420	Introduction to Human Geography	
GEO 2500	Global and Regional Economies	
Select two technique courses:		6-8
GIS 3043	Foundations of Geographic Information Systems (required)	
Select one:		
GEO 4167C	Intermediate Quantitative Analysis for Geographers	
GIS 3001C	Spatial Maps and Graphs	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
GIS 4113	Introduction to Spatial Networks	
GIS 4115	Applied Geostats	
GEO 4930	Senior Seminar	1
Select one regional geography course:		3
GEA 2270	Geography of Florida	
GEA 3405	Geography of Latin America	
GEA 3500	Geography of Europe	
GEA 3600	Geography of Africa	
GEA 4465	Amazonia	
Select two medical geography core courses:		6
GEO 3452	Introduction to Medical Geography	
GEO 3454	Peoples and Plagues	
GEO 3427	Plants, Health and Spirituality	
GEO 4612	Shelter and Care Options for U.S. Elderly	
Select two geography elective courses:		6
GEO 2242	Extreme Weather	
GEO 3250	Climatology	
GEO 3280	Principles of Geographic Hydrology	
GEO 3315	Geography of Crop Plants	
GEO 3341	Extreme Floods	
GEO 3352	The Human Footprint on Landscape	
GEO 3372	Conservation of Resources	
GEO 3427	Plants, Health and Spirituality	
GEO 3430	Population Geography	
GEO 3452	Introduction to Medical Geography	
GEO 3454	Peoples and Plagues	
GEO 3502	Economic Geography	
GEO 3602	Urban and Business Geography	
GEO 3611	Housing, People and Places in a Spatially Diverse America	
GEO 3803	Geography of Alcohol	
GEO 3930	Special Topics	
GEO 4167C	Intermediate Quantitative Analysis for Geographers	
GEO 4281	River Forms and Processes	
GEO 4285	Models in Geographic Hydrology	
GEO 4300	Environmental Biogeography	
GEO 4306C	Geography of Vector-borne Diseases	
GEO 4554	Regional Development	
GEO 4612	Shelter and Care Options for U.S. Elderly	
GEO 4938	Selected Topics in Geography	
GEO 4970	Honors Thesis	
GIS 2002	The Digital Earth	
GIS 3420C	GIS Models for Public Health	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
GIS 4102C	GIS Programming	
GIS 4113	Introduction to Spatial Networks	
GIS 4115	Applied Geostats	
MET 3503	Weather and Forecasting	
MET 4532	Hurricanes	

MET 4560	Atmospheric Teleconnections	
MET 4750	Spatial Analysis of Atmospheric Data using GIS	
Total Credits		34-36

*The same course may **not** be used to satisfy requirements for more than one bulleted group.*

Related Coursework

Code	Title	Credits
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
STA 2023	Introduction to Statistics 1	3
Total Credits		19

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450701&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete 1 geography course (GEA 1000 not acceptable)
- 2.0 UF GPA required

Semester 4

- Complete 1 additional geography course (1 of the 2 must be GEO 2200; GEA 1000 not acceptable) or complete STA 2023 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses (STA 2023 and 2 geography courses, 1 of which must be GEO 2200; GEA 1000 not acceptable) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (State Core Gen Ed Physical Sciences (p. 23))	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Mathematics; recommended course:		3-4
MAC 2311	Analytic Geometry and Calculus 1	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	13-14
Semester Two		
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (Gen Ed Physical Sciences)	
GEO 2200	Physical Geography (**Critical Tracking**; Gen Ed Physical Sciences)	3
GEO 2200L	Physical Geography Laboratory (Gen Ed Physical Sciences)	1
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23) [1]		3
	Credits	14
Semester Three		
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
State Core Gen Ed Humanities (p. 23)		3
Select one:		3
GEO 2410	Social Geography (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and Diversity)	
GEO 2420	Introduction to Human Geography (**Critical Tracking**; Gen Ed Social and Behavioral Sciences and International)	
GEO 2500	Global and Regional Economies (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Gen Ed Composition [2]		3
	Credits	13
Semester Four		
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
Gen Ed Humanities		3
Regional geography course		3
Electives		6
	Credits	16
Semester Five		
Medical geography core course [3]		3
Electives		4
Foreign language		5
GEO 3162C	Introduction to Quantitative Analysis for Geographers (Gen Ed Physical Sciences)	4
	Credits	16
Semester Six		
GIS 3043	Foundations of Geographic Information Systems	4
Medical geography core course		3
Elective (3000 level or above, not in major)		3
Foreign language		5
	Credits	15
Semester Seven		
Geography techniques course		3-4
Gen Ed Social and Behavioral Sciences		3
Geography elective		3-4
Electives (3000 level or above, not in major)		6
	Credits	15-17
Semester Eight		
GEO 4930	Senior Seminar	1
Geography elective		3
Electives (3000 level or above, not in major)		9
Electives		5
	Credits	18
	Total Credits	120

[1] PSY 2012 or SYG 2000 recommended.

[2] The following are recommended:
- ENC 3459
- ENC 3254
- ENC 3453
- ENC 3464

[3] GEO 3452 or GEO 3454 recommended.

Electives to reach the 120-credit minimum will vary depending on whether students select minimum or maximum credit course options.

Academic Learning Compact

A major in geography enables students to know the earth's physical environment, to learn social, cultural and economic concepts from spatial and regional perspectives, and to understand the relationship between environment and society. Students will learn how geographic techniques, skills and concepts are applied in the subfields of geography. Computer-based lab assignments teach students how to analyze geographic information and to apply an interpretation of data toward problem solving or modeling. They will be able to interpret and to effectively communicate information spatially, graphically and/or with statistics.

The Bachelor of Arts in geography enables students to learn how geographic techniques, skills and concepts are applied in various subfields of geography. The Bachelor of Science enables students to learn basic concepts in sciences related to the earth and its atmosphere.

Before Graduating Students Must

- Complete a capstone exam in GEO 4930, as developed by geography faculty.
- Complete a capstone portfolio in GEO 4930, evaluated by geography faculty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and describe the physical and human characteristics of Earth and its regions, the essentials of human#environment interactions, and the techniques of geographic science.

Critical Thinking

2. Analyze geographic information and apply interpretation of data toward problem solving or modeling.

Communication

3. Interpret and effectively communicate information spatially, graphically and/or with statistics.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
GEA 2000-4000 level Regional Geography	R		
GEO 2000 level Human Geography	I		
GEO 2200	I		
GEO 2200L	R		
GEO 3162C	I	I	R
GEO 4930	R, A	A	A
GIS 3043 and GIS 4001C	R	R	R
STA 2023			I
B.A. Only Plus 15 additional credits in the department	R	R	R
B.S. Only Plus 12 additional credits in the department and 22 credits outside the department with CHM, GLY, MET, PHY, SWS prefixes	R	R	R

Assessment Types

- Capstone exam
- Portfolio

Geography | BA | Environmental Geosciences

Geography is the science of place, space, and environment. Each place on earth is distinguished by a unique mix of natural resources, cultural practices, and socioeconomic and political systems. Geographers study what makes each place unique, as well as the connections and interactions between places.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 712) | B.A.: Environmental Geosciences (p. 734) | Bachelor of Science (p. 723) | B.A.: Medical Geography in Global Health (p. 717) | B.S.: Medical Geography in Global Health (p. 728)
- **Credits for Degree:** 120
- **Contact:** Email (liangmao@ufl.edu)
- **Additional Information**
- **Related Geography Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Geography offers exciting undergraduate degrees at UF. Students learn from world-renowned faculty and award-winning mentors, and contribute to groundbreaking research, all while studying topics that have great environmental and social significance. Geography is an integrated and highly interdisciplinary field of study spanning the physical world and society. It is also a hands-on discipline, with a strong emphasis on computer-based tools and field studies.

Geographers can choose to study an enormous range of subjects, essentially anything that has a spatial component. Students who major in geography use the lens of space to examine issues as diverse as climate variability and change on the African continent, malaria outbreaks in Africa and South America, deforestation and land conflict in the Amazon, and the origin and spread of blues music in the Southeastern United States. Across the globe, geographers study tropical cyclones, river restoration, disease outbreaks, the role of parks and other protected areas, changes in land cover, forest management and fragmentation, community conservation, emerging infectious diseases, environmental influences on the elderly, and economic development.

Geography explores the relationship between human and biophysical systems and deals with some of the most critical issues of our time such as environmental hazards, climate change, sustainability of resource management systems, international development, and community and urban planning. Understanding the concept of place, including how and why places differ from each other, is a central concern. Students who have social and economic interests can enter into careers in international development, urban and regional planning, geographic information systems, and environmental consultancy. Students who combine the study of socioeconomic factors and the biophysical world can work in resource management, conservation, environmental assessment, and watershed and coastal planning.

Coursework for the Major

The geography major has five different programs: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Arts in environmental geosciences (a joint program with the Department of Geological Sciences), the Bachelor of Arts in medical geography in global health, and the Bachelor of Science in medical geography in global health. Coursework for the major will depend upon the program, which are all flexible. Students must earn a minimum grade of C in all coursework for the major.

Students who are uncertain of a program should contact the Department of Geography's undergraduate coordinator for information and curriculum planning.

Required Coursework

All majors take some techniques courses, including GEO 3162C and a minimum of two additional courses that involve working with data and computers. All majors take a regional course, focusing on the countries, cultures and landscapes of one region in the world. The systematic courses include specialized courses in human or environmental/physical geography, but majors can also take additional techniques courses as part of this requirement. Students can concentrate coursework in economic geography and planning, environmental/physical geography, geospatial technologies, medical geography, or natural resource management.

Coursework for the major will depend upon the degree program. Courses for each program are listed below under Critical Tracking and Model Semester Plan.

Bachelor of Arts in Geography
Best suited for students interested in careers in urban and regional planning, business geography, medical geography, and geographic education, or for students who want a broad overview of the discipline with a focus on human geography.

Bachelor of Arts in Environmental Geosciences
A joint program between the Department of Geography and the Department of Geological Sciences and is intended for students interested in land and water aspects of the environment. The degree focuses on human impacts, water and mineral resource exploitation and management, disasters, environmental planning, earth science education, or environmental law.

Bachelor of Science in Geography
Best suited for someone who wishes to pursue a career in environmental consulting or graduate work in physical geography or related natural sciences, including atmospheric science, geosciences, hydrologic sciences, or meteorology.

Bachelor of Arts in Medical Geography in Global Health
Intended for students interested in social and cultural aspects of medical geography and global health and disease issues. The degree focuses on human impacts, cultural and social aspects of health and disease, and public health planning and management.

Bachelor of Science in Medical Geography in Global Health
Best suited for someone who wishes to pursue a career in public or animal health or disease management or graduate work in medical geography, public health or related natural sciences, including ecology, biology, or epidemiology/public health. This specialization offers the flexibility for students to prepare for admission to health professions programs.

Related Geography Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Geography, UF Online (p. 744)
- Bachelor of Arts in Geography, Environmental Geosciences, UF Online (p. 740)
- Geography minor (p. 739)
- Geography minor, UF Online (p. 739)
- Geospatial Information Analysis certificate (p. 771)
- Medical Geography certificate (p. 861)
- Meteorology and Climatology certificate (p. 862)

Bachelor of Arts: Environmental Geosciences

The Bachelor of Arts in environmental geosciences requires a minimum of 35 credits of coursework, plus 3 credits of Statistics. Students must earn a minimum grade of C in all coursework for the major.

Required Coursework

Code	Title	Credits
GEO 2200	Physical Geography	4
& 2200L	and Physical Geography Laboratory	
GEO 4930	Senior Seminar	1
GIS 3043	Foundations of Geographic Information Systems	4
GLY 2010C	Physical Geology	4
GLY 2100C	Historical Geology	4
or GLY 3105C	Evolution of Earth and Life	
GLY 3202C	Earth Materials	3
Select three geography electives:		9-12
GEO 3162C	Introduction to Quantitative Analysis for Geographers	
GEO 3250	Climatology	
GEO 3280	Principles of Geographic Hydrology	
GEO 3341	Extreme Floods	
GEO 3352	The Human Footprint on Landscape	
GEO 3372	Conservation of Resources	
GEO 4167C	Intermediate Quantitative Analysis for Geographers	
GEO 4281	River Forms and Processes	
GEO 4285	Models in Geographic Hydrology	
GEO 4300	Environmental Biogeography	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	

GIS 4102C	GIS Programming	
GIS 4113	Introduction to Spatial Networks	
GIS 4115	Applied Geostats	
MET 3503	Weather and Forecasting	
MET 4532	Hurricanes	
MET 4560	Atmospheric Teleconnections	
MET 4750	Spatial Analysis of Atmospheric Data using GIS	
Select two geology electives:		6-8
GLY 3074	Oceans and Global Climate Change	
GLY 3163	Geology American National Parks	
GLY 3603C	Paleontology	
GLY 3882C	Hydrogeology and Human Affairs	
GLY 4155C	Geology of Florida	
GLY 4310C	Igneous and Metamorphic Petrology	
GLY 4400C	Structural Geology and Tectonics	
GLY 4552C	Sedimentary Geology	
GLY 4734	Coastal Morphology and Processes	
Total Credits		35-40

*The same course may **not** be used to satisfy requirements for more than one bulleted group.*

Related Coursework

- STA 2023

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450701&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete one critical-tracking course with laboratory (GEO 2200/GEO 2200L or GLY 2010C) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 3

- Complete the other critical-tracking course with laboratory (GEO 2200/GEO 2200L or GLY 2010C) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 4

- Complete STA 2023 and maintain a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete two additional GLY or GEO courses with a 2.5 critical-tracking GPA. Recommended GLY courses include GLY 2100C or GLY 3105C. Recommended GEO courses include GEO 3250, GEO 3280, GEO 3315, GEO 3341, GEO 3352, GEO 3372, or MET 3503.
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

3000 level or above Geology courses count towards the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
Foreign language		4-5
State Core Gen Ed Mathematics, pure math (p. 23)		3
	Credits	16-17
Semester Two		
Select one:		4
GEO 2200 & 2200L	Physical Geography and Physical Geography Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
GLY 2010C	Physical Geology (**Critical Tracking**; Gen Ed Physical Sciences)	
State Core Gen Ed Biological Sciences (p. 23)		3
Foreign language		3-5
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	13-15
Semester Three		
Select one:		4
GEO 2200 & 2200L	Physical Geography and Physical Geography Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
GLY 2010C	Physical Geology (**Critical Tracking**; Gen Ed Physical Sciences)	
Gen Ed Composition; Writing Requirement		3
Foreign language if 4-3-3 option		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Biological Sciences		3
Elective		3
Gen Ed Humanities		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
GIS 3043	Foundations of Geographic Information Systems (**Critical Tracking**)	4
Select one:		4
GLY 2100C	Historical Geology (**Critical Tracking**; Gen Ed Physical Sciences)	
GLY 3105C	Evolution of Earth and Life (**Critical Tracking**; Gen Ed Physical Sciences)	
Electives (3000 level or above, not in major)		6
	Credits	14
Semester Six		
GLY 3202C	Earth Materials	3
Geography elective (from list)		3-4
Electives (3000 level or above, not in major)		9
	Credits	15-16
Semester Seven		
Geography elective		3-4
Geology elective		3-4
Electives		6
Elective (3000 level or above, not in major)		3
	Credits	15-17
Semester Eight		
GEO 4930	Senior Seminar	1

Geography elective		3-4
Geology elective		3-4
Electives		9
	Credits	16-18
	Total Credits	120

Electives to reach the 120-credit minimum will vary depending on whether students select minimum or maximum credit course options.

Academic Learning Compact

A major in geography enables students to know the earth's physical environment, to learn social, cultural and economic concepts from spatial and regional perspectives, and to understand the relationship between environment and society. Students will learn how geographic techniques, skills and concepts are applied in the subfields of geography. Computer-based lab assignments teach students how to analyze geographic information and to apply an interpretation of data toward problem solving or modeling. They will be able to interpret and to effectively communicate information spatially, graphically and/or with statistics.

The Bachelor of Arts in geography enables students to learn how geographic techniques, skills and concepts are applied in various subfields of geography. The Bachelor of Science enables students to learn basic concepts in sciences related to the earth and its atmosphere.

Before Graduating Students Must

- Complete a capstone exam in GEO 4930, as developed by geography faculty.
- Complete a capstone portfolio in GEO 4930, evaluated by geography faculty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and describe the physical and human characteristics of Earth and its regions, the essentials of human#environment interactions, and the techniques of geographic science.

Critical Thinking

2. Analyze geographic information and apply interpretation of data toward problem solving or modeling.

Communication

3. Interpret and effectively communicate information spatially, graphically and/or with statistics.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
GEA 2000-4000 level Regional Geography	R		
GEO 2000 level Human Geography	I		
GEO 2200	I		
GEO 2200L	R		
GEO 3162C	I	I	R
GEO 4930	R, A	A	A
GIS 3043 and GIS 4001C	R	R	R
STA 2023			I
B.A. Only Plus 15 additional credits in the department	R	R	R
B.S. Only Plus 12 additional credits in the department and 22 credits outside the department with CHM, GLY, MET, PHY, SWS prefixes	R	R	R

Assessment Types

- Capstone exam
- Portfolio

Geography Minor

Geography is the science of place, space, and environment. It is an interdisciplinary field investigating topics of environmental and social significance through data collection, use of computer-based tools, and field studies. A geography minor complements majors in agricultural sciences, business, environmental sciences, geology, health sciences, international studies, journalism, social sciences, and travel and tourism.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Geography Programs**

Students pursuing the Bachelor of Arts in geology with a specialization in environmental geosciences are not eligible for this minor.

No more than six transfer credits may count toward the minor. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major or other minors.

Required Courses

Code	Title	Credits
Select one:		3
GEA 1000	Geography for a Changing World	
GEO 2410	Social Geography	
GEO 2420	Introduction to Human Geography	
GEO 2500	Global and Regional Economies	
GEO 2200	Physical Geography	3
GEA, GEO, GIS, or MET courses (3000/4000 level, excluding individual work courses)		9
Total Credits		15

Related Geography Programs

- Bachelor of Arts or Bachelor of Science in Geography (p. 709)
- Bachelor of Arts in Geography, UF Online (p. 744)
- Geography minor, UF Online (p. 739)
- Geospatial Information Analysis certificate (p. 771)
- Medical Geography certificate (p. 861)
- Meteorology and Climatology certificate (p. 862)

Geography Minor UF Online

Geography is the science of place, space, and environment. It is an interdisciplinary field investigating topics of environmental and social significance through data collection, use of computer-based tools, and field studies. A geography minor complements majors in agricultural sciences, business, environmental sciences, geology, health sciences, international studies, journalism, social sciences, and travel and tourism.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** 1.855.99GATOR
- **Related Geography Programs**

Students pursuing the Bachelor of Arts in geology with a specialization in environmental geosciences are not eligible for this minor.

No more than six transfer credits may count toward the minor. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major or other minors.

Required Courses

Code	Title	Credits
GEO 2200	Physical Geography	3
Select one:		3
GEO 2420	Introduction to Human Geography	
GEO 2500	Global and Regional Economies	
GEA, GEO, GIS, or MET courses (3000/4000 level) [1]		9
Total Credits		15

[1] Excluding individual work courses.

Related Geography Programs

- Bachelor of Arts or Bachelor of Science in Geography (p. 709)
- Bachelor of Arts in Geography, UF Online (p. 744)
- Geography minor (p. 739)

Geography | Environmental Geosciences

Environmental Geosciences is an interdisciplinary curriculum integrating physical, chemical and biological aspects of the environment and environmental systems. There remains a huge demand for scientists with quantitative, interdisciplinary training in environmental geosciences to address, mitigate, and manage a multitude of complex environmental problems facing society.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Contact:** Email (liangmao@ufl.edu?subject=UF Online Geography Major) | 1.855.99GATOR
- **Related Geography Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Arts in environmental geosciences is a joint program between the Department of Geography and the Department of Geological Sciences and is intended for students interested in land and water aspects of the environment. The degree focuses on human impacts, water and mineral resource exploitation and management, disasters, environmental planning, earth science education, or environmental law. Potential careers include natural resource management, environment protection, USGS, NGOs, etc.

Coursework

The Bachelor of Arts in environmental geosciences requires a minimum of 37 credits of coursework, including STA 2023 Students must earn a minimum grade of C in all coursework for the major.

Required Coursework

Code	Title	Credits
GEO 2200	Physical Geography	4
& 2200L	and Physical Geography Laboratory	
GIS 3043	Foundations of Geographic Information Systems	4
GLY 2010C	Physical Geology	3-4
or GLY 2030C	Environmental and Engineering Geology	
GLY 2100C	Historical Geology	4
or GLY 3105C	Evolution of Earth and Life	
GLY 3202C	Earth Materials	3
GEO 4930	Senior Seminar	1
Select three geography electives:		9-12
GEO 2242	Extreme Weather	
GEO 3250	Climatology	
GEO 3452	Introduction to Medical Geography	
GEO 4281	River Forms and Processes	
GEO 4911	Undergraduate Research in Geography	

GEO 4938	Selected Topics in Geography	
GEO 4905	Individual Work	
GEO 4944	Internship	
GEO 4970	Honors Thesis	
GIS 3001C	Spatial Maps and Graphs	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
GIS 4911	Undergraduate Research in Geospatial Trends	
MET 4560	Atmospheric Teleconnections	
Select two geology electives:		6-7
GLY 3163	Geology American National Parks	
GLY 3603C	Paleontology	
GLY 3882C	Hydrogeology and Human Affairs	
GLY 4155C	Geology of Florida	
GLY 4552C	Sedimentary Geology	
GLY 4700	Geomorphology	
GLY 4822	Groundwater Geology	
Total Credits		34-39

Up to 3 credits of geography electives can come from the group of GEO 4944, GEO 4970, and GEO 4905

The same course may not be used to satisfy requirements for more than one group.

Related Coursework

- STA 2023

Related Geography Programs

- Bachelor of Science or Bachelor of Arts in Geography (p. 709)
- Bachelor of Arts in Geography, UF Online (p. 744)
- Geography minor (p. 739)
- Geography minor, UF Online (p. 739)
- Geospatial Information Analysis certificate (p. 771)
- Medical Geography certificate (p. 861)
- Meteorology and Climatology certificate (p. 862)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450701&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete one critical-tracking course with laboratory (GEO 2200/GEO 2200L or GLY 2010C) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 3

- Complete the other critical-tracking course with laboratory (GEO 2200/GEO 2200L or GLY 2010C) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 4

- Complete STA 2023 and maintain a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete 2 additional GLY or GEO courses with a 2.5 critical-tracking GPA.
  Recommended GLY courses include GLY 2100C or GLY 3105C. Recommended GEO courses include GEO 3250, GEO 4281, and GIS 4037.
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically GE-C, H, or S). 3000 level or above Geography courses may count towards 3000 level electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Mathematics (p. 23) [1]		3
Foreign language		4-5
Elective		3
	Credits	16-17
Semester Two		
Select one:		4
GLY 2010C	Physical Geology (**Critical Tracking**; Gen Ed Physical Sciences; or equivalent)	
GEO 2200	Physical Geography	
& 2200L	and Physical Geography Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
State Core Gen Ed Biological Sciences (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		4-5
	Credits	14-15
Semester Three		
Select one:		4
GLY 2010C	Physical Geology (**Critical Tracking**; Gen Ed Physical Sciences; or equivalent)	
GEO 2200	Physical Geography	
& 2200L	and Physical Geography Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Gen Ed Composition; Writing Requirement		3
Elective or foreign language if 4-3-3 option		3
	Credits	16
Semester Four		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Biological Sciences		3
Gen Ed Humanities		3
Gen Ed Social and Behavioral Sciences		3
Elective		3
	Credits	15
Semester Five		
GLY 3105C	Evolution of Earth and Life (**Critical Tracking**; Gen Ed Physical Sciences)	4
GLY 3202C	Earth Materials (**Critical Tracking**)	3
Electives (3000 level or above, not in major)		6
	Credits	13

Semester Six		
GIS 3043	Foundations of Geographic Information Systems (**Critical Tracking**)	4
Geography elective		3
Electives (3000 level or above, not in major)		9
	Credits	16
Semester Seven		
Geography elective		3
Geology elective		3
Elective (3000 level or above, not in major)		3
Electives		6
	Credits	15
Semester Eight		
GLY 4930	Special Topics in Geology	1
Geography elective		3
Geology elective		3
Electives		8
	Credits	15
	Total Credits	120

Electives to reach the 120-credit total will vary depending on whether students select minimum or maximum credit course options.

[1] Pure math

Academic Learning Compact

The Bachelor of Arts in geology provides knowledge of the basic concepts related to earth materials and processes, and how to collect and organize geological data in the field. Through laboratory and field-based exercises, students will learn how to interpret geologic maps and cross sections, and to understand the application of the scientific method to solve these problems in teams and individually.

Before Graduating Students Must

- Pass GLY 4155C according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Collect data in the field.
3. Organize geologic, temporal and spatial data.

Critical Thinking

1. Interpret geologic maps and cross sections.
2. Interpret results using the scientific method.

Communication

1. Produce a clearly and effectively written synthesis of data collected in the field.
2. Work in teams to solve geologic problems and to present the results of such collaboration effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
GLY 2010C	I	I	I	I	I	I	I
GLY 2100C	R	R	R	R	I		R
GLY 3202C	R	R			R		R
GLY 3603	R	R			R	R	
GLY 4155C Capstone	A	A	A	A	A	A	A

Assessment Types

- Lab assignments
- Projects
- Exams

Geography UF Online

Geography is the science of place, space, and environment. Each place on earth is distinguished by a unique mix of natural resources, cultural practices, and socio-economic and political systems. Geographers study what makes each place unique, as well as the connections and interactions between places.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Contact:** Email (liangmao@ufl.edu) | 1.855.99GATOR
- **Additional Information**
- **Related Geography Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Geography offers exciting undergraduate degrees at UF. Students learn from world-renowned faculty and award-winning mentors, and contribute to groundbreaking research, all while studying topics that have great environmental and social significance. Geography is an integrated and highly interdisciplinary field of study spanning the physical world and society. It is also a hands-on discipline, with a strong emphasis on computer-based tools and field studies.

Geographers can choose to study an enormous range of subjects, essentially anything that has a spatial component. Students who major in geography use the lens of space to examine issues as diverse as climate variability and change on the African continent, malaria outbreaks in Africa and South America, deforestation and land conflict in the Amazon, and the origin and spread of blues music in the Southeastern United States. Across the globe, geographers study tropical cyclones, river restoration, disease outbreaks, the role of parks and other protected areas, changes in land cover, forest management and fragmentation, community conservation, emerging infectious diseases, environmental influences on the elderly, and economic development.

Geography explores the relationship between human and biophysical systems and deals with some of the most critical issues of our time such as environmental hazards, climate change, sustainability of resource management systems, international development, and community and urban planning. Understanding the concept of place, including how and why places differ from each other, is a central concern. Students who have social and economic interests can enter into careers in international development, urban and regional planning, geographic information systems, and environmental consultancy. Students who combine the study of socioeconomic factors and the biophysical world can work in resource management, conservation, environmental assessment, and watershed and coastal planning.

Coursework for the Major

The Bachelor of Arts degree requires 33-35 credits of coursework in geography, plus 3 credits of STA 2023. Students must earn a minimum grade of C in all coursework for the major.

Code	Title	Credits
Required Coursework		
GEO 2200 & 2200L	Physical Geography and Physical Geography Laboratory	4
GEO 2420 or GEO 2500	Introduction to Human Geography Global and Regional Economies	3
GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
Technique Courses		
Select two:		6-8
GIS 3001C	Spatial Maps and Graphs	
GIS 3043	Foundations of Geographic Information Systems	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
Regional Geography Course		
GEA 3405	Geography of Latin America	3

or GEA 3600	Geography of Africa	
Systematic Geography Courses		
Select 12 credits (minimum):		12
GEO 2242	Extreme Weather	
GEO 3250	Climatology	
GEO 3502	Economic Geography	
GEO 4905	Individual Work	
GEO 4911	Undergraduate Research in Geography	
GEO 4938	Selected Topics in Geography [1]	
GEO 4944	Internship	
GEO 4970	Honors Thesis	
GIS 2002	The Digital Earth	
GIS 3001C	Spatial Maps and Graphs	
GIS 3043	Foundations of Geographic Information Systems	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
GIS 4102C	GIS Programming	
MET 4560	Atmospheric Teleconnections	
GEO 4930	Senior Seminar	1
Related Coursework		
STA 2023	Introduction to Statistics 1	3
Total Credits		36-38

[1] Upper division transfer courses with no UF equivalent will be substituted as GEO 4938.

Transfer coursework is considered on a case-by-case basis.

The same course may not be used to satisfy requirements for more than one bulleted group.

Related Geography Programs

- Bachelor of Science or Bachelor of Arts in Geography (p. 709)
- Bachelor of Arts in Geography, UF Online (p. 744)
- Bachelor of Arts in Geography, Environmental Geosciences, UF Online (p. 740)
- Geography minor (p. 739)
- Geography minor, UF Online (p. 739)
- Geospatial Information Analysis certificate (p. 771)
- Medical Geography certificate (p. 861)
- Meteorology and Climatology certificate (p. 862)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450701&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete 1 geography course
- 2.0 UF GPA required

Semester 4

- Complete 1 additional geography course (1 of the 2 must be GEO 2200) or complete STA 2023 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses (STA 2023 and 2 geography courses, 1 of which must be GEO 2200) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
GEO 2420	Introduction to Human Geography (**Critical Tracking**; Gen Ed Social and Behavioral Sciences with International)	
GEO 2500	Global and Regional Economies (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (Writing Requirement)		3
Foreign language		4-5
	Credits	13-14
Semester Two		
GEO 2200	Physical Geography (**Critical Tracking**; Gen Ed Physical Sciences)	3
GEO 2200L	Physical Geography Laboratory (Gen Ed Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Foreign language		3-5
	Credits	13-15
Semester Three		
GEO 2000/3000 Level (Systematic)		3
Gen Ed Biological Sciences		3
Gen Ed Composition (Writing Requirement)		3
Elective (or foreign language if 4-3-3 option)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Four		
GEO 3000/4000 Level (Systematic)		3
Elective		3
Elective (3000 level or above, not in major)		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Mathematics (pure math)		3
	Credits	15
Semester Five		
GEA 3405 or GEA 3600	Geography of Latin America or Geography of Africa	3
GEO 3162C	Introduction to Quantitative Analysis for Geographers (Gen Ed Physical Sciences)	4
Electives (3000 level or above, not in major)		6
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Six		
GEO 3000/4000 Level (Systematic)		3
Select one:		4

GIS 3043	Foundations of Geographic Information Systems	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
Elective		3
Elective (3000 level or above, not in major)		3
Gen Ed Humanities		3
	Credits	16
Semester Seven		
GEO 4930	Senior Seminar	1
Select one GEO/GIS 4000 level technique course:		3-4
GIS 3043	Foundations of Geographic Information Systems	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
Electives		6
Elective (3000 level or above, not in major)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16-17
Semester Eight		
GEO 3000/4000 Level (Systematic)		3
Elective (3000 level or above, not in major)		3
Electives		10
	Credits	16
	Total Credits	120

Electives to reach the 120-credit minimum will vary depending on whether students select minimum or maximum credit course options.

Academic Learning Compact

A major in geography enables students to know the earth's physical environment, to learn social, cultural and economic concepts from spatial and regional perspectives, and to understand the relationship between environment and society. Students will learn how geographic techniques, skills and concepts are applied in the subfields of geography. Computer-based lab assignments teach students how to analyze geographic information and to apply an interpretation of data toward problem solving or modeling. They will be able to interpret and to effectively communicate information spatially, graphically and/or with statistics.

The Bachelor of Arts in geography enables students to learn how geographic techniques, skills and concepts are applied in various subfields of geography. The Bachelor of Science enables students to learn basic concepts in sciences related to the earth and its atmosphere.

Before Graduating Students Must

- Complete a capstone exam in GEO 4930, as developed by geography faculty.
- Complete a capstone portfolio in GEO 4930, evaluated by geography faculty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and describe the physical and human characteristics of Earth and its regions, the essentials of human#environment interactions, and the techniques of geographic science.

Critical Thinking

2. Analyze geographic information and apply interpretation of data toward problem solving or modeling.

Communication

3. Interpret and effectively communicate information spatially, graphically and/or with statistics.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
GEA 2000-4000 level Regional Geography	R		

GEO 2000 level Human Geography	I		
GEO 2200	I		
GEO 2200L	R		
GEO 3162C	I	I	R
GEO 4930	R, A	A	A
GIS 3043 or GIS 4001C	R	R	R
STA 2023			I
B.A. Only Plus 15 additional credits in the department	R	R	R
B.S. Only Plus 12 additional credits in the department and 22 credits outside the department with CHM, GLY, MET, PHY, SWS prefixes	R	R	R

Assessment Types

- Capstone exam
- Portfolio

Geological Sciences Certificate

This certificate offers coursework in geological sciences relevant to environmental policy and law, resource economics, teaching, regional planning, building construction, and related fields. The certificate program includes courses required to take the professional geologist licensure exam.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 16-17 | Completed with minimum grades of C
- **Contact:** Email (jmeert@ufl.edu) | 352.846.2414
- **Related Geology Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

This certificate is offered via distance learning to UF students. Degree-seeking geological science majors are not eligible for this certificate.

Required Courses

Code	Title	Credits
GLY 2010C	Physical Geology	3-4
or GLY 2030C	Environmental and Engineering Geology	
GLY 3105C	Evolution of Earth and Life	4
GLY 3202C	Earth Materials	3
Approved electives		6
Total Credits		16-17

Approved Electives

Code	Title	Credits
GLY 3163	Geology American National Parks	3
GLY 3882C	Hydrogeology and Human Affairs	3
GLY 4155C	Geology of Florida	3
GLY 4552C	Sedimentary Geology	4
GLY 4700	Geomorphology	3
GLY 4822	Groundwater Geology	3

Related Geology Programs

- Bachelor of Arts in Geology (p. 749)
- Bachelor of Arts in Geology, UF Online (p. 767)
- Geology minor (p. 766)

Geology

A geology degree provides an understanding of issues associated with the physical earth and skills which are in demand in today's job market. The geology graduate will have a detailed understanding of climate change, sustainability of the Earth's resources, and the close interplay between human activity and the environment.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 751) | B.A.: Environmental Geosciences (p. 761) | Bachelor of Science (p. 756)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Geology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Techniques such as environmental assessment, geological hazard assessment, field-based techniques, and geographic information systems (GIS) are used to evaluate the impact of humans on the physical earth and hydrologic environment. The practical and flexible curriculum, small class sizes, computer-based learning, strong faculty, and coursework in several areas of general education make this major appealing to students who want skills linked to employment or preparation for entry to professional schools (e.g., law, medicine, business).

Geology majors learn about the Earth's physical environment including climate, non-renewable geological resources, renewable geological resources, geological hazards and remediation as well as basic skills required by geologists. These skills and the geological perspective open doors to employment in government agencies and private firms that deal with water management, mining and petroleum exploration, climate change, the environment, and education.

Coursework for the Major

The geology major has three different specializations: the Bachelor of Arts, the Bachelor of Arts in environmental geosciences (a joint program with the Department of Geography), and the Bachelor of Science. Students who are uncertain which program best suits them should consult the Department of Geology's undergraduate coordinator for information and guidance on curriculum planning.

Bachelor of Arts

This degree is the most flexible degree, and best suited for students interested in careers in education or environmental policy making. The degree also allows students flexibility to pursue advanced degrees in environmental law or environmental medicine.

Bachelor of Arts | Environmental Geosciences

Co-offered by the Department of Geography, this specialization is designed for students interested in land and water aspects of the environment. It can be tailored to focus on water and mineral exploration and management, geological hazards, environmental planning, resource sustainability, or earth science education.

Bachelor of Science

This degree is designed for students planning to take the professional geology (PG) licensure exam and/or to continue on to graduate study in geology. It emphasizes a core understanding of petrology, structural geology, field methodology and paleontology, and it requires significant introductory coursework in calculus, general chemistry, and physics.

Relevant Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified secondary science teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see the undergraduate coordinator about the UFTeach program. UFTeach students can complete the UFTeach minor in science teaching along with their B.A. or B.S in geology and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Research

Students in geology who wish to graduate with high or highest honors will be required to conduct an independent research project under the direction of a faculty member. Students are also afforded the opportunity to conduct research within the department's laboratories regardless of their honors status.

Related Geology Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Geology, UF Online (p. 767)
- Geology minor (p. 766)
- Geological Sciences certificate (p. 748)

Academic Learning Compact

Bachelor of Arts

The Bachelor of Arts in geology provides knowledge of the basic concepts related to earth materials and processes, and how to collect and organize geological data in the field. Through laboratory and field-based exercises, students will learn how to interpret geologic maps and cross sections, and to understand the application of the scientific method to solve these problems in teams and individually.

Before Graduating Students Must

- Pass GLY 4155C Geology of Florida according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Collect data in the field.
3. Organize geologic, temporal and spatial data.

Critical Thinking

4. Interpret geologic maps and cross sections.
5. Interpret results using the scientific method.

Communication

6. Produce a clearly and effectively written synthesis of data collected in the field.
7. Work in teams to solve geologic problems and to present the results of such collaboration effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
GLY 2010C	I	I	I	I	I	I	I
GLY 2100C	R	R	R	R	I		R
GLY 3202C	R	R			R		R
GLY 3603	R	R			R	R	
GLY 4155C Capstone	A	A	A	A	A	A	A

Assessment Types

- Lab assignments
- Projects
- Exams

Bachelor of Science

The Bachelor of Science in geology provides knowledge of the basic concepts, theories, observational findings related to earth materials and processes, minerals and rocks, geologic time, stratigraphy and landforms. Through laboratory and field-based exercises, students will learn how to

analyze data in the published literature, synthesize analog and digital datasets to produce geological maps, and understand the application of the scientific method to solve geological problems in teams and individually.

Before Graduating Students Must

- Pass GLY 4790 Summer Field Camp according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Identify and describe minerals and rocks.
3. Define geologic time, stratigraphy and landforms.

Critical Thinking

4. Analyze data in the published literature.
5. Synthesize analog and digital datasets to produce geologic maps.
6. Apply the scientific method to the analysis of published and self-generated data.

Communication

7. Use computers for the presentation of geologic maps and data.
8. Solve geologic problems in teams and present the result of such collaboration effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
GLY 2010C	I	I	I	I		I		I
GLY 2100C	R	R	R	R	I	R	I	R
GLY 3200C	R	R	R	R		R		R
GLY 4310C	R	R	R	R	R	R	R	R
GLY 4790 Capstone	A	A	A	A	A	A	A	A

Assessment Types

- Six weeks of practical field exercises and mapping, including observation and data collection in New Mexico and the western USA

Geology | BA

A geology degree provides an understanding of issues associated with the physical earth and skills which are in demand in today's job market. The geology graduate will have a detailed understanding of climate change, sustainability of the Earth's resources, and the close interplay between human activity and the environment.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 751) | B.A.: Environmental Geosciences (p. 761) | Bachelor of Science (p. 756)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Geology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Techniques such as environmental assessment, geological hazard assessment, field-based techniques, and geographic information systems (GIS) are used to evaluate the impact of humans on the physical earth and hydrologic environment. The practical and flexible curriculum, small class sizes, computer-based learning, strong faculty, and coursework in several areas of general education make this major appealing to students who want skills linked to employment or preparation for entry to professional schools (e.g., law, medicine, business).

Geology majors learn about the Earth's physical environment including climate, non-renewable geological resources, renewable geological resources, geological hazards and remediation as well as basic skills required by geologists. These skills and the geological perspective open doors to

employment in government agencies and private firms that deal with water management, mining and petroleum exploration, climate change, the environment, and education.

Coursework for the Major

The geology major has three different specializations: the Bachelor of Arts, the Bachelor of Arts in environmental geosciences (a joint program with the Department of Geography), and the Bachelor of Science. Students who are uncertain which program best suits them should consult the Department of Geology's undergraduate coordinator for information and guidance on curriculum planning.

Bachelor of Arts

This degree is the most flexible degree, and best suited for students interested in careers in education or environmental policy making. The degree also allows students flexibility to pursue advanced degrees in environmental law or environmental medicine.

Bachelor of Arts | Environmental Geosciences

Co-offered by the Department of Geography, this specialization is designed for students interested in land and water aspects of the environment. It can be tailored to focus on water and mineral exploration and management, geological hazards, environmental planning, resource sustainability, or earth science education.

Bachelor of Science

This degree is designed for students planning to take the professional geology (PG) licensure exam and/or to continue on to graduate study in geology. It emphasizes a core understanding of petrology, structural geology, field methodology and paleontology, and it requires significant introductory coursework in calculus, general chemistry, and physics.

Relevant Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified secondary science teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see the undergraduate coordinator about the UFTeach program. UFTeach students can complete the UFTeach minor in science teaching along with their B.A. or B.S in geology and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Research

Students in geology who wish to graduate with high or highest honors will be required to conduct an independent research project under the direction of a faculty member. Students are also afforded the opportunity to conduct research within the department's laboratories regardless of their honors status.

Related Geology Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Geology, UF Online (p. 767)
- Geology minor (p. 766)
- Geological Sciences certificate (p. 748)

Bachelor of Arts

The geology B.A. requires a minimum of 32 credits of coursework in the major. At least 23 credits must be GLY-prefixed courses at the 3000 level or above, excluding GLY 3105C. Students must earn a minimum grade of C for coursework to count toward the major.

Required Coursework

Code	Title	Credits
Introductory Coursework		
Select one general introductory course:		3-4
GLY 2010C	Physical Geology	
GLY 2030C	Environmental and Engineering Geology	
Any 1000-2000-level GLY, OCE or ESC course		
Select one historical geology courses:		4
GLY 3105C	Evolution of Earth and Life	
GLY 2100C	Historical Geology	
Core Coursework		
GLY 3202C	Earth Materials	3-4
or GLY 3200C	Principles of Mineralogy	

Additional Geology courses at the 3000 level or higher [1]		17
1000-4000 level Geology course		2-4
Capstone Course		
GLY 4155C	Geology of Florida	3
Total Credits		32-36

[1] Excluding GLY 3105C; minimum 17 credits.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=400601&track=1/2) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete one General Education Mathematics course
- Complete 1 of 3 critical-tracking courses with a 2.5 critical-tracking GPA. Choose one from a general introductory course (GLY 2010C, GLY 2030C, or any 1000-2000 level GLY, OCE or ESC course), a historical geology course (GLY 3105C or GLY 2100C), or a 3000-level geology course.

  GLY 2010C or GLY 2030C is recommended as one of these is prerequisite to many upper-level courses.
- 2.0 UF GPA required

Semester 4

- Complete one additional critical-tracking course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all tracking courses with a 2.5 critical-tracking GPA; one general introductory course (GLY 2010C, GLY 2030C, or any 1000-2000 level GLY, OCE, or ESC course), one historical geology course (GLY 3105C or GLY 2100C), and one 3000-level geology course.
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically GE-C, H, or S). One of the two general education mathematics courses must be a pure math course.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Mathematics (**Critical Tracking**)		3-4
Foreign language		4-5
Select one elective		3
	Credits	16-18

Semester Two		
Select one:		3-4
GLY 2010C	Physical Geology (**Critical Tracking**; Gen Ed Physical Sciences)	
ESC 1000	Introduction to Earth Science (**Critical Tracking**; Gen Ed Physical Sciences)	
GLY 1000	Exploring the Geological Sciences (**Critical Tracking**; Gen Ed Physical Sciences)	
OCE 1001	Introduction to Oceanography (**Critical Tracking**; Gen Ed Physical Sciences)	
State Core Gen Ed Biological Sciences (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		3-5
	Credits	12-15
Semester Three		
Select one:		4
GLY 2100C	Historical Geology (**Critical Tracking**; Gen Ed Physical Sciences)	
GLY 3105C	Evolution of Earth and Life (**Critical Tracking**; Gen Ed Physical Sciences)	
Electives		6
Elective or foreign language if 4-3-3 option		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
GLY 3202C	Earth Materials (**Critical Tracking**)	3
Gen Ed Biological Sciences		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics [1]		3-4
Gen Ed Social and Behavioral Sciences		3
	Credits	15-16
Semester Five		
Gen Ed Composition		3
Electives (3000 level or above, not in major)		6
Geology elective (**Critical Tracking**; 3000 level or above)		4
Gen Ed Humanities		3
	Credits	16
Semester Six		
Geology electives (3000 level or above)		8
Electives (3000 level or above, not in major)		6
	Credits	14
Semester Seven		
Geology electives (3000 level or above)		7
Electives		9
	Credits	16
Semester Eight		
GLY 4155C	Geology of Florida	3
Geology elective		2
Electives (3000 level or above, not in major)		6
Electives		4
	Credits	15
	Total Credits	120

[1] Pure math if STA 2023 taken for state core in semester one.

Electives to reach the 120-credit total will vary depending on whether students select minimum or maximum credit course options.

Academic Learning Compact

Bachelor of Arts

The Bachelor of Arts in geology provides knowledge of the basic concepts related to earth materials and processes, and how to collect and organize geological data in the field. Through laboratory and field-based exercises, students will learn how to interpret geologic maps and cross sections, and to understand the application of the scientific method to solve these problems in teams and individually.

Before Graduating Students Must

- Pass GLY 4155C Geology of Florida according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Collect data in the field.
3. Organize geologic, temporal and spatial data.

Critical Thinking

4. Interpret geologic maps and cross sections.
5. Interpret results using the scientific method.

Communication

6. Produce a clearly and effectively written synthesis of data collected in the field.
7. Work in teams to solve geologic problems and to present the results of such collaboration effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
GLY 2010C	I	I	I	I	I	I	I
GLY 2100C	R	R	R	R	I		R
GLY 3202C	R	R			R		R
GLY 3603	R	R			R	R	
GLY 4155C Capstone	A	A	A	A	A	A	A

Assessment Types

- Lab assignments
- Projects
- Exams

Bachelor of Science

The Bachelor of Science in geology provides knowledge of the basic concepts, theories, observational findings related to earth materials and processes, minerals and rocks, geologic time, stratigraphy and landforms. Through laboratory and field-based exercises, students will learn how to analyze data in the published literature, synthesize analog and digital datasets to produce geological maps, and understand the application of the scientific method to solve geological problems in teams and individually.

Before Graduating Students Must

- Pass GLY 4790 Summer Field Camp according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Identify and describe minerals and rocks.
3. Define geologic time, stratigraphy and landforms.

Critical Thinking

4. Analyze data in the published literature.
5. Synthesize analog and digital datasets to produce geologic maps.
6. Apply the scientific method to the analysis of published and self-generated data.

Communication

7. Use computers for the presentation of geologic maps and data.
8. Solve geologic problems in teams and present the result of such collaboration effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
GLY 2010C	I	I	I	I		I		I
GLY 2100C	R	R	R	R	I	R	I	R
GLY 3200C	R	R	R	R		R		R
GLY 4310C	R	R	R	R	R	R	R	R
GLY 4790 Capstone	A	A	A	A	A	A	A	A

Assessment Types

- Six weeks of practical field exercises and mapping, including observation and data collection in New Mexico and the western USA

Geology | BS

A geology degree provides an understanding of issues associated with the physical earth and skills which are in demand in today's job market. The geology graduate will have a detailed understanding of climate change, sustainability of the Earth's resources, and the close interplay between human activity and the environment.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 751) | B.A.: Environmental Geosciences (p. 761) | Bachelor of Science (p. 756)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Geology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Techniques such as environmental assessment, geological hazard assessment, field-based techniques, and geographic information systems (GIS) are used to evaluate the impact of humans on the physical earth and hydrologic environment. The practical and flexible curriculum, small class sizes, computer-based learning, strong faculty, and coursework in several areas of general education make this major appealing to students who want skills linked to employment or preparation for entry to professional schools (e.g., law, medicine, business).

Geology majors learn about the Earth's physical environment including climate, non-renewable geological resources, renewable geological resources, geological hazards and remediation as well as basic skills required by geologists. These skills and the geological perspective open doors to employment in government agencies and private firms that deal with water management, mining and petroleum exploration, climate change, the environment, and education.

Coursework for the Major

The geology major has three different specializations: the Bachelor of Arts, the Bachelor of Arts in environmental geosciences (a joint program with the Department of Geography), and the Bachelor of Science. Students who are uncertain which program best suits them should consult the Department of Geology's undergraduate coordinator for information and guidance on curriculum planning.

Bachelor of Arts

This degree is the most flexible degree, and best suited for students interested in careers in education or environmental policy making. The degree also allows students flexibility to pursue advanced degrees in environmental law or environmental medicine.

Bachelor of Arts | Environmental Geosciences

Co-offered by the Department of Geography, this specialization is designed for students interested in land and water aspects of the environment. It can be tailored to focus on water and mineral exploration and management, geological hazards, environmental planning, resource sustainability, or earth science education.

Bachelor of Science

This degree is designed for students planning to take the professional geology (PG) licensure exam and/or to continue on to graduate study in geology. It emphasizes a core understanding of petrology, structural geology, field methodology and paleontology, and it requires significant introductory coursework in calculus, general chemistry, and physics.

Relevant Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified secondary science teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see the undergraduate coordinator about the UFTeach program. UFTeach students can complete the UFTeach minor in science teaching along with their B.A. or B.S in geology and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Research

Students in geology who wish to graduate with high or highest honors will be required to conduct an independent research project under the direction of a faculty member. Students are also afforded the opportunity to conduct research within the department's laboratories regardless of their honors status.

Related Geology Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Geology, UF Online (p. 767)
- Geology minor (p. 766)
- Geological Sciences certificate (p. 748)

Bachelor of Science

The professional degree is for students who want to pursue graduate school and careers in geosciences and/or environmental science. The major is extremely flexible and allows specialization in a number of subdisciplines (geochemistry, geophysics, geobiology, and hydrogeology).

The major requires 39-40 credits of geology coursework. Students must earn minimum grades of C for coursework to count toward the major.

Required Coursework

Code	Title	Credits
Introductory Coursework		
Select one General introductory course:		3-4
GLY 2010C	Physical Geology	
GLY 2030C	Environmental and Engineering Geology	
Any 1000-2000 level GLY, OCE or ESC course		
Select one Historical geology course:		4
GLY 2100C	Historical Geology	
GLY 3105C	Evolution of Earth and Life	
Geology BS Core Coursework		
GLY 3200C	Principles of Mineralogy	4
GLY 4310C	Igneous and Metamorphic Petrology	4
GLY 4400C	Structural Geology and Tectonics	4
GLY 4552C	Sedimentary Geology	4
Additional geology courses at the 3000 level or higher [1]		8
Geology BS Capstone Coursework		
GLY 4750L	Geological Field Methods	2
GLY 4790	Geology Summer Field Camp	6
Total Credits		39-40

[1] Excluding GLY 3105C; minimum 8 credits.

Related Coursework

At least 15-16 credits of related coursework

Code	Title	Credits
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	

MAC 2311	Analytic Geometry and Calculus 1	4
Select one semester of physics and laboratory:		4-5
PHY 2004	Applied Physics 1	
& 2004L	and Laboratory for Applied Physics 1	
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
Select remaining coursework:		3-4
CGS 2531	Problem Solving Using Computer Software	
CHM 2046	General Chemistry 2	
CHM 2046L	General Chemistry 2 Laboratory	
PHY 2005	Applied Physics 2	
PHY 2005L	Laboratory for Applied Physics 2	
PHY 2049	Physics with Calculus 2	
PHY 2049L	Laboratory for Physics with Calculus 2	
PHY 2054	Physics 2	
PHY 2054L	Laboratory for Physics 2	
MAC 2312	Analytic Geometry and Calculus 2	
MAC 2313	Analytic Geometry and Calculus 3	
STA 2023	Introduction to Statistics 1	
Other science credits at the 2000 level and above approved by the department		
Total Credits		15-17

Specific courses selected from among the alternatives listed above will depend upon the student's primary interest.

Students interested in graduate school are urged to take a year of chemistry, calculus and physics. Students should contact a departmental advisor as early as possible.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=400601&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete one general introductory course (GLY 2010C Physical Geology, GLY 2030C Environmental and Engineering Geology, or any 1000-2000 level GLY, OCE, or ESC course).
  GLY 2010C is recommended as it is a prerequisite for many upper-level courses.
- 2.0 UF GPA required

Semester 4

- Complete historical geology course (GLY 2100C or GLY 3105C) or GLY 3000-level geology course.
- Complete one related coursework requirement (CHM 2045/CHM 2045L, MAC 2311, or PHY 2004/PHY 2048/PHY 2053 and associated lab)
- 2.5 Critical Tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete one 3000-level geology course (or historical geology course if not taken in semester 4)
- Complete one additional related coursework requirement (CHM 2045/CHM 2045L, MAC 2311, or PHY 2004/PHY 2048/PHY 2053 and associated lab)
- 2.5 Critical Tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically GE-C, H, or S). MAC 2312, MAC 2313, PHY 2049, PHY 2049L, PHY 2054, and PHY 2054L may count towards 3000 level or above electives outside of the major if taken.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Foreign language		4-5
	Credits	14-15
Semester Two		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
Select one:		4
MAC 2312	Analytic Geometry and Calculus 2 (Gen Ed Mathematics)	
PHY 2004	Applied Physics 1	
& 2004L	and Laboratory for Applied Physics 1 (Gen Ed Physical Sciences)	
Foreign language		3-5
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14-16
Semester Three		
Select one:		4
CHM 2046	General Chemistry 2	
& 2046L	and General Chemistry 2 Laboratory (Gen Ed Physical Sciences)	
Approved science course (Gen Ed Physical Sciences)		
Select one:		3-4
GLY 2010C	Physical Geology (**Critical Tracking**; Gen Ed Physical Sciences)	
Introductory GLY course (**Critical Tracking**; Gen Ed Physical Sciences)		
Select one:		4
PHY 2005	Applied Physics 2	
& 2005L	and Laboratory for Applied Physics 2 (Gen Ed Physical Sciences)	
Approved science course (Gen Ed Physical Sciences)		
Gen Ed Social and Behavioral Sciences		3
	Credits	14-15
Semester Four		
Select one:		4
GLY 2100C	Historical Geology (**Critical Tracking**; Gen Ed Physical Sciences)	
GLY 3105C	Evolution of Earth and Life (**Critical Tracking**)	
Gen Ed Biological Sciences		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics (or elective if Calculus 2 taken in semester two)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Five		
GLY 3200C	Principles of Mineralogy (**Critical Tracking**; Gen Ed Physical Sciences)	4

GLY 4750L	Geological Field Methods	2
Electives (3000 level or above, not in major)		5
Gen Ed Humanities		3
	Credits	14
Semester Six		
GLY 4310C	Igneous and Metamorphic Petrology (Gen Ed Physical Sciences)	4
GLY 4400C	Structural Geology and Tectonics	4
Gen Ed Biological Sciences		3
Geology elective (any GLY course 3000 level or above)		2
Elective (3000 level or above, not in major)		3
	Credits	16
Summer After Semester Six		
GLY 4790	Geology Summer Field Camp	6
	Credits	6
Semester Seven		
GLY 4552C	Sedimentary Geology	4
Gen Ed Composition		3
Geology elective (any GLY course 3000 level or above)		3
Elective (3000 level or above, not in major)		3
	Credits	13
Semester Eight		
GLY 3603C	Paleontology (Gen Ed Physical Sciences)	4
GLY 4905	Individual Work (or one elective)	3
Electives (3000 level or above, not in major)		6
	Credits	13
	Total Credits	120

Academic Learning Compact

Bachelor of Arts

The Bachelor of Arts in geology provides knowledge of the basic concepts related to earth materials and processes, and how to collect and organize geological data in the field. Through laboratory and field-based exercises, students will learn how to interpret geologic maps and cross sections, and to understand the application of the scientific method to solve these problems in teams and individually.

Before Graduating Students Must

- Pass GLY 4155C Geology of Florida according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Collect data in the field.
3. Organize geologic, temporal and spatial data.

Critical Thinking

4. Interpret geologic maps and cross sections.
5. Interpret results using the scientific method.

Communication

6. Produce a clearly and effectively written synthesis of data collected in the field.
7. Work in teams to solve geologic problems and to present the results of such collaboration effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
GLY 2010C	I	I	I	I	I	I	I
GLY 2100C	R	R	R	R	I		R
GLY 3202C	R	R			R		R

GLY 3603	R	R			R	R	
GLY 4155C Capstone	A	A	A	A	A	A	A

Assessment Types

- Lab assignments
- Projects
- Exams

Bachelor of Science

The Bachelor of Science in geology provides knowledge of the basic concepts, theories, observational findings related to earth materials and processes, minerals and rocks, geologic time, stratigraphy and landforms. Through laboratory and field-based exercises, students will learn how to analyze data in the published literature, synthesize analog and digital datasets to produce geological maps, and understand the application of the scientific method to solve geological problems in teams and individually.

Before Graduating Students Must

- Pass GLY 4790 Summer Field Camp according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Identify and describe minerals and rocks.
3. Define geologic time, stratigraphy and landforms.

Critical Thinking

4. Analyze data in the published literature.
5. Synthesize analog and digital datasets to produce geologic maps.
6. Apply the scientific method to the analysis of published and self-generated data.

Communication

7. Use computers for the presentation of geologic maps and data.
8. Solve geologic problems in teams and present the result of such collaboration effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
GLY 2010C	I	I	I	I		I		I
GLY 2100C	R	R	R	R	I	R	I	R
GLY 3200C	R	R	R	R		R		R
GLY 4310C	R	R	R	R	R	R	R	R
GLY 4790 Capstone	A	A	A	A	A	A	A	A

Assessment Types

- Six weeks of practical field exercises and mapping, including observation and data collection in New Mexico and the western USA

Geology | BA | Environmental Geosciences

A geology degree provides an understanding of issues associated with the physical earth and skills which are in demand in today's job market. The geology graduate will have a detailed understanding of climate change, sustainability of the Earth's resources, and the close interplay between human activity and the environment.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 751) | B.A.: Environmental Geosciences (p. 761) | Bachelor of Science (p. 756)

- **Credits for Degree:** 120
- **Additional Information**
- **Related Geology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Techniques such as environmental assessment, geological hazard assessment, field-based techniques, and geographic information systems (GIS) are used to evaluate the impact of humans on the physical earth and hydrologic environment. The practical and flexible curriculum, small class sizes, computer-based learning, strong faculty, and coursework in several areas of general education make this major appealing to students who want skills linked to employment or preparation for entry to professional schools (e.g., law, medicine, business).

Geology majors learn about the Earth's physical environment including climate, non-renewable geological resources, renewable geological resources, geological hazards and remediation as well as basic skills required by geologists. These skills and the geological perspective open doors to employment in government agencies and private firms that deal with water management, mining and petroleum exploration, climate change, the environment, and education.

Coursework for the Major

The geology major has three different specializations: the Bachelor of Arts, the Bachelor of Arts in environmental geosciences (a joint program with the Department of Geography), and the Bachelor of Science. Students who are uncertain which program best suits them should consult the Department of Geology's undergraduate coordinator for information and guidance on curriculum planning.

Bachelor of Arts

This degree is the most flexible degree, and best suited for students interested in careers in education or environmental policy making. The degree also allows students flexibility to pursue advanced degrees in environmental law or environmental medicine.

Bachelor of Arts | Environmental Geosciences

Co-offered by the Department of Geography, this specialization is designed for students interested in land and water aspects of the environment. It can be tailored to focus on water and mineral exploration and management, geological hazards, environmental planning, resource sustainability, or earth science education.

Bachelor of Science

This degree is designed for students planning to take the professional geology (PG) licensure exam and/or to continue on to graduate study in geology. It emphasizes a core understanding of petrology, structural geology, field methodology and paleontology, and it requires significant introductory coursework in calculus, general chemistry, and physics.

Relevant Minors and/or Certificates

UFTeach Program

There is a severe shortage of qualified secondary science teachers in Florida and nationwide. Students interested in becoming part of this high-demand profession should see the undergraduate coordinator about the UFTeach program. UFTeach students can complete the UFTeach minor in science teaching along with their B.A. or B.S in geology and have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Research

Students in geology who wish to graduate with high or highest honors will be required to conduct an independent research project under the direction of a faculty member. Students are also afforded the opportunity to conduct research within the department's laboratories regardless of their honors status.

Related Geology Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Geology, UF Online (p. 767)
- Geology minor (p. 766)
- Geological Sciences certificate (p. 748)

Bachelor of Arts: Environmental Geosciences

This specialization is well-suited for students interested in environmental science, environmental policy, Earth science teaching, or environmental law and offers a unique interdisciplinary perspective between geology and geography. The major requires a minimum of 40 credits of coursework

and is a joint offering between the Department of Geological Sciences and Department of Geography. Students must earn a minimum grade of C for coursework to count toward the major.

Required Coursework

Code	Title	Credits
GEO 2200	Physical Geography	4
& 2200L	and Physical Geography Laboratory	
GIS 3043	Foundations of Geographic Information Systems	4
GLY 2010C	Physical Geology	4
GLY 2100C	Historical Geology	4
or GLY 3105C	Evolution of Earth and Life	
GLY 3202C	Earth Materials	3
GLY 4155C	Geology of Florida	3
Select two geology electives:		6-8
GLY 3074	Oceans and Global Climate Change	
GLY 3163	Geology American National Parks	
GLY 3603C	Paleontology	
GLY 3882C	Hydrogeology and Human Affairs	
GLY 4310C	Igneous and Metamorphic Petrology	
GLY 4400C	Structural Geology and Tectonics	
GLY 4552C	Sedimentary Geology	
GLY 4734	Coastal Morphology and Processes	
GLY 4750L	Geological Field Methods	
Select three geography electives:		9-12
GEO 3162C	Introduction to Quantitative Analysis for Geographers	
GEO 3250	Climatology	
GEO 3280	Principles of Geographic Hydrology	
GEO 3341	Extreme Floods	
GEO 3352	The Human Footprint on Landscape	
GEO 3372	Conservation of Resources	
GEO 4167C	Intermediate Quantitative Analysis for Geographers	
GLY 4734	Coastal Morphology and Processes	
GEO 4281	River Forms and Processes	
GEO 4285	Models in Geographic Hydrology	
GEO 4300	Environmental Biogeography	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
MET 3503	Weather and Forecasting	
MET 4532	Hurricanes	
Total Credits		37-42

Related Coursework

- STA 2023

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=450701&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete one critical-tracking course with laboratory (GEO 2200/GEO 2200L or GLY 2010C) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 3

- Complete the other critical-tracking course with laboratory (GEO 2200/GEO 2200L or GLY 2010C) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 4

- Complete STA 2023 and maintain a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete 2 additional GLY or GEO courses with a 2.5 critical-tracking GPA. (GLY 2100C or GLY 3105C recommended)
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically GE-C, H, or S). 3000 level or above Geography courses may count towards 3000 level electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Mathematics (p. 23)		3
Foreign language		4-5
	Credits	13-14
Semester Two		
Select one:		4
GLY 2010C	Physical Geology (**Critical Tracking**; Gen Ed Physical Sciences; or equivalent)	
GEO 2200 & 2200L	Physical Geography and Physical Geography Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
State Core Gen Ed Biological Sciences (p. 23)		3
Elective		3
Foreign language		3-5
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16-18
Semester Three		
Select one:		4
GLY 2010C	Physical Geology (**Critical Tracking**; Gen Ed Physical Sciences; or equivalent)	
GEO 2200 & 2200L	Physical Geography and Physical Geography Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
Elective or foreign language if 4-3-3 option		3
Elective (3000 level or above, not in major)		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Biological Sciences		3
Gen Ed Composition		3
Gen Ed Humanities		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
GIS 3043	Foundations of Geographic Information Systems (**Critical Tracking**)	4
Select one:		4

GLY 2100C	Historical Geology (**Critical Tracking**; Gen Ed Physical Sciences)	
GLY 3105C	Evolution of Earth and Life (**Critical Tracking**; Gen Ed Physical Sciences)	
Electives (3000 level or above, not in major)		6
	Credits	14
Semester Six		
GLY 3202C	Earth Materials	3
Geology elective		3-4
Electives (3000 level or above, not in major)		9
	Credits	15-16
Semester Seven		
Geography elective		3-4
Geology elective		3-4
Electives		9
	Credits	15-17
Semester Eight		
GLY 4155C	Geology of Florida	3
Geography electives		6-8
Electives		7
	Credits	16-18
	Total Credits	120

Electives to reach the 120-credit total will vary depending on whether students select minimum or maximum credit course options.

Academic Learning Compact

Bachelor of Arts

The Bachelor of Arts in geology provides knowledge of the basic concepts related to earth materials and processes, and how to collect and organize geological data in the field. Through laboratory and field-based exercises, students will learn how to interpret geologic maps and cross sections, and to understand the application of the scientific method to solve these problems in teams and individually.

Before Graduating Students Must

- Pass GLY 4155C Geology of Florida according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Collect data in the field.
3. Organize geologic, temporal and spatial data.

Critical Thinking

4. Interpret geologic maps and cross sections.
5. Interpret results using the scientific method.

Communication

6. Produce a clearly and effectively written synthesis of data collected in the field.
7. Work in teams to solve geologic problems and to present the results of such collaboration effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
GLY 2010C	I	I	I	I	I	I	I
GLY 2100C	R	R	R	R	I		R
GLY 3202C	R	R			R		R
GLY 3603	R	R			R	R	
GLY 4155C Capstone	A	A	A	A	A	A	A

Assessment Types

- Lab assignments
- Projects
- Exams

Bachelor of Science

The Bachelor of Science in geology provides knowledge of the basic concepts, theories, observational findings related to earth materials and processes, minerals and rocks, geologic time, stratigraphy and landforms. Through laboratory and field-based exercises, students will learn how to analyze data in the published literature, synthesize analog and digital datasets to produce geological maps, and understand the application of the scientific method to solve geological problems in teams and individually.

Before Graduating Students Must

- Pass GLY 4790 Summer Field Camp according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Identify and describe minerals and rocks.
3. Define geologic time, stratigraphy and landforms.

Critical Thinking

4. Analyze data in the published literature.
5. Synthesize analog and digital datasets to produce geologic maps.
6. Apply the scientific method to the analysis of published and self-generated data.

Communication

7. Use computers for the presentation of geologic maps and data.
8. Solve geologic problems in teams and present the result of such collaboration effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
GLY 2010C	I	I	I	I		I		I
GLY 2100C	R	R	R	R	I	R	I	R
GLY 3200C	R	R	R	R		R		R
GLY 4310C	R	R	R	R	R	R	R	R
GLY 4790 Capstone	A	A	A	A	A	A	A	A

Assessment Types

- Six weeks of practical field exercises and mapping, including observation and data collection in New Mexico and the western USA

Geology Minor

The College of Liberal Arts and Sciences is the largest college on campus, with more than 10,000 undergraduate students pursuing a variety of disciplines through its 33 majors and 48 minors. Undergraduate students acquire an intellectual foundation based on a well-rounded and comprehensive education designed for an increasingly technological and rapidly changing society.

Contact

Office of the Dean
2014 Turlington Hall
P.O Box 117300
Gainesville FL 32611-7300

352.392.0780

Map (http://campusmap.ufl.edu/?loc=0267) More Info (http://www.clas.ufl.edu)

Academic Advising Center (AAC)
Farrior Hall
205 Fletcher Drive

P.O. Box 112015
University of Florida
Gainesville, FL 32611-2015

352.392.1521

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 17 | Completed with minimum grades of C
- **Related Geology Programs**

Students pursuing the Bachelor of Arts in geography with a specialization in environmental geosciences are not eligible to receive this minor. All students should consult the undergraduate advisor.

A minimum of nine credits must be completed at UF and nine credits must be at the 3000/4000 level. No more than one credit of independent study will be accepted. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
GLY 2100C	Historical Geology	4
or GLY 3105C	Evolution of Earth and Life	
GLY 3202C & GLY 1150L	Earth Materials and Florida Geology Laboratory	4
GLY courses (3000/4000 level)		6
Approved elective		3
Total Credits		17

Approved Electives

Code	Title	Credits
ESC 1000	Introduction to Earth Science	3
GLY 1000	Exploring the Geological Sciences	3
GLY 1102	Age of Dinosaurs	3
GLY 1880	Earthquakes, Volcanoes and Other Hazards	3
GLY 2010C	Physical Geology	4
GLY 2030C	Environmental and Engineering Geology	3
GLY 2038	Sustainability and the Changing Earth	3
OCE 1001	Introduction to Oceanography	3

Related Geology Programs

- Bachelor of Arts or Bachelor of Science in Geology (p. 749)
- Bachelor of Arts in Geology, UF Online (p. 767)
- Geological Sciences certificate (p. 748)

Geology UF Online

A geology degree provides an understanding of issues associated with the physical earth and skills which are in demand in today's job market. The geology graduate will have a detailed understanding of climate change, sustainability of the Earth's resources, and the close interplay between human activity and the environment.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Geology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Techniques such as environmental assessment, geological hazard assessment, field-based techniques, and geographic information systems (GIS) are used to evaluate the impact of humans on the physical earth and hydrologic environment. The practical and flexible curriculum, small class sizes, computer-based learning, strong faculty and coursework in several areas of general education make this major appealing to students who want skills linked to employment or preparation for entry to professional schools (e.g., law, medicine, business).

Geology majors learn about the Earth's physical environment including climate, non-renewable geological resources, renewable geological resources, geological hazards and remediation as well as basic skills required by geologists. These skills and the geological perspective open doors to employment in government agencies and private firms that deal with water management, mining and petroleum exploration, climate change, the environment and education.

The Bachelor of Arts in geology is best suited for students interested in careers in education or environmental policy making. The degree also allows students flexibility to pursue advanced degrees in environmental law or environmental medicine.

Research

Students in geology who wish to graduate with high or highest honors will be required to conduct an independent research project under the direction of a faculty member. Students are also afforded the opportunity to conduct research within the department's laboratories regardless of their honors status.

Coursework for the Major

The geology B.A. requires a minimum of 32 credits of coursework in the major. At least 23 credits must be GLY-prefixed courses at the 3000 level or above, excluding GLY 3105C. Students must earn a minimum grade of C for coursework to count toward the major.

Required Coursework

Code	Title	Credits
Introductory Coursework		
Select one general introductory course:		3-4
GLY 2010C	Physical Geology	
GLY 2030C	Environmental and Engineering Geology	
Any 1000-2000-level GLY, OCE or ESC course		
Select one historical geology course:		4
GLY 3105C	Evolution of Earth and Life	
GLY 2100C	Historical Geology	
Core Coursework		
GLY 3202C	Earth Materials	3-4
or GLY 3200C	Principles of Mineralogy	
Additional Geology courses at the 3000 level or higher [1]		17
1000-4000 level Geology course		2-4
Capstone Course		
GLY 4155C	Geology of Florida	3
Total Credits		32-36

[1] Excluding GLY 3105C; minimum 17 credits.

Related Geology Programs

- Bachelor of Science or Bachelor of Arts in Geology (p. 749)
- Geology minor (p. 766)
- Geological Sciences certificate (p. 748)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=400601&track=1/2) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete one General Education Mathematics course
- Complete 1 of 3 critical-tracking courses with a 2.5 critical-tracking GPA. Choose one from a general introductory course (GLY 2010C, GLY 2030C, or any 1000-2000 level GLY, OCE or ESC course), a historical geology course (GLY 3105C or GLY 2100C), or a 3000-level geology course.

  GLY 2010C or GLY 2030C is recommended as one of these is prerequisite to many upper-level courses.
- 2.0 UF GPA required

Semester 4

- Complete one additional critical-tracking course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all tracking courses with a 2.5 critical-tracking GPA; one general introductory course (GLY 2010C, GLY 2030C, or any 1000-2000 level GLY, OCE or ESC course), one historical geology course (GLY 3105C or GLY 2100C), and one 3000-level geology course.
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically GE-C, H, or S). One of the two general education mathematics courses must be a pure math course.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Mathematics (**Critical Tracking**)		3-4
Foreign language		4-5
Select one elective		3
	Credits	16-18
Semester Two		
Select one:		3-4
GLY 2010C	Physical Geology (**Critical Tracking**; Gen Ed Physical Sciences)	
ESC 1000	Introduction to Earth Science (**Critical Tracking**; Gen Ed Physical Sciences)	
GLY 1000	Exploring the Geological Sciences (**Critical Tracking**; Gen Ed Physical Sciences)	
OCE 1001	Introduction to Oceanography (**Critical Tracking**; Gen Ed Physical Sciences)	
State Core Gen Ed Biological Sciences (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3

Foreign language		3-5
	Credits	12-15
Semester Three		
Select one:		4
GLY 2100C	Historical Geology (**Critical Tracking**; Gen Ed Physical Sciences)	
GLY 3105C	Evolution of Earth and Life (**Critical Tracking**; Gen Ed Physical Sciences)	
Electives		6
Elective or foreign language if 4-3-3 option		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
GLY 3202C	Earth Materials (**Critical Tracking**)	3
Gen Ed Biological Sciences		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics [1]		3-4
Gen Ed Social and Behavioral Sciences		3
	Credits	15-16
Semester Five		
Gen Ed Composition		3
Electives (3000 level or above, not in major)		6
Geology elective (**Critical Tracking**; 3000 level or above		4
Gen Ed Humanities		3
	Credits	16
Semester Six		
Geology electives (3000 level or above)		8
Electives (3000 level or above, not in major)		6
	Credits	14
Semester Seven		
Geology electives (3000 level or above)		7
Electives		9
	Credits	16
Semester Eight		
GLY 4155C	Geology of Florida	3
Geology elective		2
Electives (3000 level or above, not in major)		6
Electives		4
	Credits	15
	Total Credits	120

[1] Pure math if STA 2023 taken for state core in semester one.

Electives to reach the 120-credit total will vary depending on whether students select minimum or maximum credit course options.

Academic Learning Compact

The Bachelor of Arts in geology provides knowledge of the basic concepts related to earth materials and processes, and how to collect and organize geological data in the field. Through laboratory and field-based exercises, students will learn how to interpret geologic maps and cross sections, and to understand the application of the scientific method to solve these problems in teams and individually.

Before Graduating Students Must

- Pass GLY 4155C according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Collect data in the field.
3. Organize geologic, temporal and spatial data.

Critical Thinking

4. Interpret geologic maps and cross sections.
5. Interpret results using the scientific method.

Communication

6. Produce a clearly and effectively written synthesis of data collected in the field.
7. Work in teams to solve geologic problems and to present the results of such collaboration effectively.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
GLY 2010C	I	I	I	I	I	I	I
GLY 2100C	R	R	R	R	I		R
GLY 3202C	R	R			R		R
GLY 3603	R	R			R	R	
GLY 4155C Capstone	A	A	A	A	A	A	A

Assessment Types

- Lab assignments
- Projects
- Exams

Geospatial Information Analysis Certificate

Geospatial information analysis is used increasingly in both research and practice with job opportunities expected to grow 29% from 2014 to 2024.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 11-12 | Completed with minimum average grade of 2.67
- **Contact:** Email (liangmao@ufl.edu) | 352.294.7516

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Covers a variety of geospatial technologies and analytical methods such as digital mapping, geographic information system (GIS), and remotely sensed image processing, aiming to develop spatial thinking ability for students. Lab-based applications emphasize hands-on experiences of these technologies.

Open to all currently enrolled undergraduate students. At least nine credits of coursework must be unique to the Geospatial Information Analysis certificate out of all other certificates and minors.

Required Courses

Code	Title	Credits
GIS 3043	Foundations of Geographic Information Systems [1]	4
GIS 4037	Digital Image Processing [2]	4
Approved elective [3]		3-4
Total Credits		11-12

1. Spring, Year 1; junior standing or higher.
2. Fall, Year 1; junior standing or higher.
3. Spring or Fall, Year 2; junior standing or higher.

Approved Electives

Other GIS courses may be substituted with approval of the certificate coordinator

Code	Title	Credits
GIS 3001C	Spatial Maps and Graphs	4
GIS 4021C	Aerial Photo Interpretation	3
GIS 4102C	GIS Programming	3
GIS 4113	Introduction to Spatial Networks	3
GIS 4115	Applied Geostats	3

German

Foreign Languages and Literatures

German studies encompasses the works of German literature, the culture of the Middle Ages, German cinema, writings of ethnic minorities in German-speaking countries, economics, and the European Union. By acquiring proficiency in the German language, students learn the most widely spoken language in Europe and join a community of more than 130 million speakers of German around the world.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related German Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in Foreign Languages and Literatures (FLL) provides students with a comprehensive knowledge of a specific language (or languages) and advanced familiarity with the cultural practices and traditions associated with the language(s) of specialization. The major in FLL enhances critical thinking and communication skills and provides students with a cross-cultural understanding of our contemporary world. The program allows students the flexibility to explore a single or dual language specialization as well as the opportunity to study culture through interdisciplinary fields of critical concentration, such as Comparative Cultural Studies, Film and Visual Culture, Intensive Area Studies, Literary Studies, and Medieval and Early Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security, communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

The German specialization of the Foreign Languages and Literatures major is not limited to knowing the language, but instead helps the student achieve multiple literacies. In the major, the study of language merges with the study of culture and includes:

- The works of German literature as well as German culture and civilization from the Middle Ages through the end of the 20th and the beginning of the 21st century
- German cinema
- The writings of ethnic minorities in German-speaking countries
- The terminology of business, economics, and the European Union
- Summer studies or full-semester studies at a German or Austrian university.

For many students, the curriculum is an enriching discovery of their own past: more than 60 million Americans are at least partly of German heritage. More Americans can trace their ancestry to Germany than to any other foreign country, and since the middle of the 20th century more Americans have lived and worked in Germany than in any other foreign country.

Coursework for the Major

The German specialization in Foreign Languages and Literatures consists of preparatory language study at the lower division (1000 and 2000 level), and 33 hours of advanced language, theory, and culture study in the upper division (3000 level and above).

All coursework for the major must be completed with minimum grades of C.

Ordinarily, students will need to have completed GER 2200 Intermediate German 1 by their fifth semester at UF to be able to complete the German major.

Required Foundation Coursework | 16 Credits

Code	Title	Credits
GER 1130	Beginning Intensive German 1	5
or GER 1125	Discover German 1	
GER 1131	Beginning Intensive German 2	5
or GER 1126	Discover German 2	
GER 2200	Intermediate German 1	3
GER 2240	Intermediate German 2	3
Total Credits		16

Required Core Coursework | 33 Credits

Code	Title	Credits
Advanced Language and Culture		
Select 6 credits:		6
GER 3470	Advanced German Abroad	
GER 3234	Reading German Texts	
GER 3401	German Grammar Review	
GER 3300	Writing German Texts	
GER 3413	German Listening, Comprehension and Speaking	
Advanced Coursework		
Select 18 credits (at least 6 credits with GER or GEW prefix at the 4000 level):		18
GER 3332	Topics in German Film and Culture	
GER 3440	German in Business	
GER 4482	Cultural Identity and Intercultural Competence	
GER 4930	Variable Topics in German Studies	
GET 3004	Modern German Culture and Civilization	
GET 3200	Medieval Literary Culture	
GET 3501	History, Literature and Arts of Berlin	
GET 3520	Early German Cinema: 1945	
GET 3580	Representations of War in Literature and Visual Media	
GET 3930	Variable Topics in German Studies	
GET 4521	Women and German Cinema	
GET 4523	New Cinema 1945 to the Present	
GET 4930	Variable Topics in German Studies	
GEW 3930	Variable Topics in German Studies	
GEW 4400	Medieval Studies in German	
GEW 4730	Modern German Literature	
GEW 4731	Contemporary German Literature	
GEW 4750	Women in German Literature	
GEW 4760	Ethnic Writing in Germany	
GEW 4905	Individual Work	
GEW 4930	Seminar in Germanic Languages and Literatures	
Critical Concentration		
Although courses may appear in more than one group they may be counted toward only one group		
Select 9 credits from one concentration:		9
Intensive Area Studies: German (Recommended for those planning to pursue careers requiring advanced level skills in German or graduate work in German Studies)		
Comparative Cultural Studies		
Film and Visual Culture		
Literary Studies		
Medieval and Early Modern Studies		
Total Credits		33

Up to 15 credits of 3000/4000-level classes can be transferred from another institution.

No more than 3 credits can be earned in independent studies courses such as GEW 4905.

Overseas Study

The program recommends its summer program in Mannheim, Germany. Students can complete nine credits at the intermediate or advanced level depending on prerequisites met.

Placement

Students without prior German should take the GER 1130 and GER 1131 sequence (five credits each). An alternative manner of completing the basic language sequence in a single year is by taking the online German sequence GER 1125 and GER 1126, Discover German. These 10 credit sequences fulfill the college's language requirement.

Students with previous training in one of the languages should speak with the department.

Related German Programs

- German minor (p. 779)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160501&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete GER 1125 or GER 1130 or higher-level German course
- 2.0 UF GPA required

Semester 3

- Complete GER 1126 or GER 1131 or higher-level German course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Maintain completion of GER 1131 or GER 1126 or higher-level German course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete GER 2200 or any 2000-level German course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). 3000 level or above critical concentration courses outside of German may count toward the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		5
GER 1125	Discover German 1 (**Critical Tracking**)	
GER 1130	Beginning Intensive German 1 (**Critical Tracking**)	
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3

State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
Select one:		5
GER 1126	Discover German 2 (**Critical Tracking**)	
GER 1131	Beginning Intensive German 2 (**Critical Tracking**)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Mathematics (p. 23)		3
Gen Ed Biological or Physical Sciences (area **not** taken in semester one)		3
Science laboratory (Gen Ed Biological or Physical Sciences)		1
	Credits	15
Semester Three		
GER 2200	Intermediate German 1 (**Critical Tracking**)	3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Four		
GER 2240	Intermediate German 2	3
GET 3004	Modern German Culture and Civilization (Gen Ed Humanities and International)	3
Gen Ed Social and Behavioral Sciences and Diversity		3
Elective (3000 level or above, not in major)		3
Elective		3
	Credits	15
Semester Five		
Select two:		6
GER 3234	Reading German Texts	
GER 3300	Writing German Texts	
GER 3401	German Grammar Review	
GER 3413	German Listening, Comprehension and Speaking	
GER 3440	German in Business	
GER 3470	Advanced German Abroad	
Critical concentration course		3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
	Credits	15
Semester Six		
Select 6 advanced German elective credits		6
Critical concentration course		3
Electives (3000 level or above, not in major)		6
	Credits	15
Semester Seven		
Advanced German elective or senior thesis option		3
Advanced German elective (4000 level)		3
Electives (3000 level or above, not in major)		6
Electives		4
	Credits	16
Semester Eight		
Advanced German elective		3
Advanced German elective (4000 level)		3
Critical concentration course		3
Elective (3000 level or above, not in major)		3
Elective		3
	Credits	15
	Total Credits	120

Critical Concentration Courses | 9 Credits from One Concentration

Although courses may appear in more than one group they may be counted toward only one group

Code	Title	Credits
Intensive Area Studies: German		
Recommended for those planning to pursue careers requiring advanced level skills in German or graduate work in German Studies		
GER 3234	Reading German Texts	3
GER 3330	German Language and Culture 1	3
GER 3332	Topics in German Film and Culture	1
GER 3440	German in Business	3
GER 4482	Cultural Identity and Intercultural Competence	3
GER 4930	Variable Topics in German Studies	3
GET 3200	Medieval Literary Culture	3
GET 3501	History, Literature and Arts of Berlin	3
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4930	Variable Topics in German Studies	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
GEW 3100	Survey of German Literature 1	3
GEW 3101	Survey of German Literature 2	3
GEW 3930	Variable Topics in German Studies	3
GEW 4301	Introduction to German Drama and Theater	3
GEW 4400	Medieval Studies in German	3
GEW 4730	Modern German Literature	3
GEW 4731	Contemporary German Literature	3
GEW 4750	Women in German Literature	3
GEW 4760	Ethnic Writing in Germany	3
GEW 4930	Seminar in Germanic Languages and Literatures	3
Comparative Cultural Studies		
ABT 3500	Arabic Culture	3
ABT 4131	The Qur'an as Literature	3
ARA 3510	The Arab Woman	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CZT 3564	Modern Czech Culture and Society	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3003	German Culture and Civilization 1	3
GET 3004	Modern German Culture and Civilization	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
HAI 3930	Haitian Culture and Society	3
HAT 3564	Haitian Culture and Society	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3500	Japanese Culture	3
JPT 4502	Japanese Folklore	3
RUT 3443	War and Peace	3
RUT 3500	Russian Cultural Heritage	3
RUT 3501	Contemporary Russian Culture and Society	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3504	Russia Today	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3524	Russia through Film	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 4450	Russian Modernism	3
VTT 3500	Vietnamese Culture	3
YOT 3500	Yoruba Diaspora in the New World	3

Film and Visual Culture		
CHI 4930	Special Topics in Chinese Studies	3
CHT 3391	Chinese Film and Media	4
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	4
FRT 3520	French Cinema	4
FRT 3561	Women in French Literature and/or Cinema	3-4
FRT 4523	European Identities, European Cinemas	4
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
HBR 4930	Special Topics	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPN 4930	Special Topics in Japanese Studies	3
JPT 3391	Introduction to Japanese Film	4
PLT 3520	Polish Cinema	4
RUT 3524	Russia through Film	3
SSA 4930	Special Topics in African Studies (African Film)	3
Literary Studies		
ABT 3130	Arabic Literary Heritage 1	3
ABT 4131	The Qur'an as Literature	3
CHI 4930	Special Topics in Chinese Studies	3
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 4111	Dream of the Red Chamber	3
CHT 4603	Journey to the West	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3200	Medieval Literary Culture	3
GET 3501	History, Literature and Arts of Berlin	3
GET 3580	Representations of War in Literature and Visual Media	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
GET 4930	Variable Topics in German Studies	3
HAT 3503	Haitian Culture and Literature in Translation	3
HBR 4930	Special Topics	3
HBT 3223	Identity and Dissent in the Hebrew Short Story	3
HBT 3233	Israeli History and the Contemporary Novel	3
HBT 3563	Women in Modern Hebrew Fiction	3
HBT 3564	Motherhood in Modern Hebrew Literature	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3140	Modern Women Writers	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
PLT 3930	Special Topics in Polish Studies	3
RUT 3101	Russian Masterpieces	3
RUT 3441	Tolstoy and Dostoevsky	3
RUT 3442	Themes from Russian Literature	3
RUT 3443	War and Peace	3
RUT 3452	Russian Literature of the Twentieth Century	3

RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 3930	Variable Topics in Russian Studies	3
RUT 4440	Pushkin and Gogol	3
RUT 4450	Russian Modernism	3
SST 4502	African Oral Literature	3
SSW 3303	Swahili Oral Literature	3
SSW 4713	African Women Writers	3
VTN 4930	Special Topics in Vietnamese Studies	3
YOR 4502	Yoruba Oral Literature	3
Medieval and Early Modern Studies		
ARA 3510	The Arab Woman	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4603	Journey to the West	3
GET 3200	Medieval Literary Culture	3
ITT 3431	Italy and Pilgrimages	3
JPT 3300	Samurai War Tales	3
MEM 3003	Introduction to the Medieval World	3
MEM 3300	Castles and Cloisters: An Introduction to Medieval Communities	3
MEM 3301	Palaces and Cities: An Introduction to Early Modern Communities	3
MEM 3730	Studies in the Holy Roman Empire	3
MEM 3805	Research Methods in Medieval and Early Modern Studies	1
MEM 3931	Variable Topics in Medieval and Early Modern Studies	3

Academic Learning Compact

The Foreign Languages and Literatures (FLL) major enables students to achieve communicative competence in their language(s) of specialization. Students will become knowledgeable in the culture and literature and/or linguistics associated with their language area(s) such that they will be able to critically analyze and evaluate authentic sources in the target language(s) and formulate independent, critical perspectives in the target language(s). Further, students will learn the intercultural skills and practical know-how necessary to negotiate traveling, studying, and living in the target culture(s).

Before Graduating Students Must

- Satisfy the Florida statutes for the College-Level Academic Skills Requirement.
- Complete requirements for the baccalaureate degree, as determined by faculty.
- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and define cultural concepts, literary production, and/or linguistic structure in language(s) of specialization.

Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I,R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

German Minor

This minor provides a linguistic foundation in the German language equivalent to the B1-B2 level according to the Common European Framework of Reference for Languages, and practical experience with different kinds of texts, films, and cultural issues important to speakers of German.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Related German Programs**

Students cannot transfer more than six credits toward the minor. No more than three credits can be Individual Work (GEW 4905).

One German course taught in English (GET prefix) can count toward the minor and can be taken concurrently with the basic language sequence.

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
GER courses (3000/4000 level)		9
GER, GEW, or GET course (3000/4000 level)		3
GER or GEW course (4000 level)		3
Total Credits		15

Related German Programs

- Bachelor of Arts in German (p. 772)

Greek Studies Minor

The College of Liberal Arts and Sciences is the largest college on campus, with more than 10,000 undergraduate students pursuing a variety of disciplines through its 33 majors and 48 minors. Undergraduate students acquire an intellectual foundation based on a well-rounded and comprehensive education designed for an increasingly technological and rapidly changing society.

Contact

Office of the Dean
2014 Turlington Hall
P.O Box 117300
Gainesville FL 32611-7300

352.392.0780

Map (http://campusmap.ufl.edu/?loc=0267) More Info (http://www.clas.ufl.edu)

Academic Advising Center (AAC)
Farrior Hall
205 Fletcher Drive

P.O. Box 112015
University of Florida
Gainesville, FL 32611-2015

352.392.1521

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15-19 | Completed with minimum grades of C
- **Additional Information**

A maximum of six credits of Beginning Modern Greek 1 and 2 can apply to this minor. A minimum of nine credits must be at the 3000 level or above.

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Of the total credits, no more than three may be individual work.

Required Courses

Code	Title	Credits
GRK 1130	Beginning Modern Greek 1	3-5
or GRK 2200	Intermediate Modern Greek 1	
GRK 1131	Beginning Modern Greek 2	3-5
or GRK 2201	Intermediate Modern Greek 2	
Approved Electives		9
Total Credits		15-19

Approved Electives

Code	Title	Credits
CLA 3114	Greece Today and Yesterday	3
CLA 4956	Overseas Studies 1	1-15
CLT 3370	Myths of the Greeks and Romans	3
GMT 3223	Lovers in the Greek Novel	3
GMT 3513	Greece in the European Context in the 20th Century	3
GMT 4110	The Literature of Byzantium	3
GMT 4911	Undergraduate Research in Modern Greek Language and Literature	0-3
GRK 4300	Modern Greek Literature Since 1830	3
GRK 4905	Individual Work in Modern Greek	1-4

Health Disparities in Society Minor

Health disparities describe the disproportionate burden of disease, lack of access to health care, and poorer health outcomes found among members of socially disenfranchised populations. Health disparities exist at multiple levels of society (global, national, institutional, local, and personal) and among people of diverse geographic locations, linguistic groups, socioeconomic status, and sociocultural groups. Housed in the Center for Gender, Sexualities, and Women's Studies Research (CGSWSR), the Health Disparities in Society (HDS) minor provides an interdisciplinary, intersectional framework to examine how multiple social identities (e.g., race, gender, sexual orientation, and socioeconomic status) intersect to reveal interlocking inequalities and preventable disparities in health.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C and no optional S-U | 9 must be at the 3000-level or above
- **Related Women's Studies Programs**

Requirements

- No more than three credits of independent study may count toward the minor.
- Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.
- Students must complete at least three courses at the 3000 level or higher and each must be at least three credits.

- Sometimes, and with the approval of the undergraduate coordinator for Women's Studies, students may petition to have other, relevant classes approved as substitutes within each category of electives within the minor. Such courses could include department *special topics* offering with numbers like 3930, 4930.

Each semester, courses offered for this minor are listed on the Women's Studies courses website.
More Info (http://wst.ufl.edu/courses/electives-for-health-disparities-minor)

Required Courses

Code	Title	Credits
WST 2322	Introduction to Health Disparities	3
WST 4941C	Practicum in Health Disparities	3
Category A elective [1]		3
Category B electives [1]		6
Total Credits		15

[1] WST 4905 may apply to one category approved by the center.

Approved Electives

Category A | Theories of Social Inequality, Difference, and Power

Code	Title	Credits
AFA 3332	Black Feminist and Womanist Theory	3
AFA 4430	Black Lives Matter	3
AMH 3340	History of Disability in America	3
ANT 3451	Race and Racism	3
ENG 4844	Queer Theory	3
HIS 3454	Racial Theories in Europe and the U.S.	3
SYD 3700	Minorities in American Society	3
SYO 4530	Social Inequality	3
WST 3015	Interdisciplinary Perspectives in Women's Studies	3
WST 3415	Transnational Feminism	3
WST 3603	Sexualities Studies	3
WST 4641	Lesbian and Gay Studies	3

Category B | Health Systems and Social Justice Mission

Code	Title	Credits
ANT 3478	Global Health Culture	3
ANT 4462	Culture and Medicine	3
GEO 3430	Population Geography	3
GEO 3452	Introduction to Medical Geography	3
GEO 3454	Peoples and Plagues	3
HIS 3495	Evolution of Infectious Diseases	3
PHC 3440	Global Public Health	3
PHC 3603	Critical Issues in Ph	3
PHC 4101	Public Health Concepts	3
PHI 3459	Medicine and Philosophy	3
PHI 3633	Bioethics	3
SYO 4400	Medical Sociology	3
SYP 4730	Sociology of Aging and Life Course	3
WST 3323	Gender, Bodies, and Health	3
WST 3703	History of American Medicine: Race, Class, Gender, and Science	3
WST 4326	Women and Therapy	3
WST 4704	Discrimination and Health	3

Related Women's Studies Programs

- Bachelor of Arts in Women's Studies (p. 970)
- Women's Studies minor (p. 974)

Hebrew

Foreign Languages and Literatures

By assuming an interdisciplinary approach to Hebrew language and culture, students acquire knowledge of the close relationship between politics, history, religions, arts and cultures in Israel. In addition to working toward proficiency in Hebrew, students will develop close reading and critical thinking skills. Students graduating with this major will find job opportunities in Jewish community organizations, the government, and consulting. In addition, due to the interdisciplinary nature of the major, students will be well prepared for the rigor of graduate studies in the humanities.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Related Hebrew or Jewish Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in Foreign Languages and Literatures (FLL) provides students with a comprehensive knowledge of a specific language (or languages) and advanced familiarity with the cultural practices and traditions associated with the language(s) of specialization. The major in FLL enhances critical thinking and communication skills, and provides students with a cross-cultural understanding of our contemporary world. The program allows students the flexibility to explore a single or dual language specialization as well as the opportunity to study culture through interdisciplinary fields of critical concentration, such as Comparative Cultural Studies, Film and Visual Culture, Intensive Area Studies, Literary Studies, and Medieval and Early Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security, communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

Coursework for the Major

The Hebrew specialization of the Foreign Languages and Literatures major consists of preparatory language study at the lower division (1000 and 2000 level), and 33 hours of advanced language, theory, and culture study in the upper division (3000 level and above).

All coursework for the major must be completed with minimum grades of C.

Required Foundation Coursework | 18 Credits

Code	Title	Credits
HBR 1130	Beginning Modern Hebrew 1	5
HBR 1131	Beginning Modern Hebrew 2	5
HBR 2220	Intermediate Modern Hebrew 1	4
HBR 2221	Intermediate Modern Hebrew 2	4
Total Credits		18

Required Core Coursework | 33 Credits

Code	Title	Credits
Advanced Language and Culture		
HBR 3410	Advanced Modern Hebrew 1	3
HBR 3411	Advanced Modern Hebrew 2	3
Advanced Elective Coursework		
Select 18 credits (at least 6 credits at the 4000 level):		18
HBT 3100	Introduction to Israeli Culture	
HBT 3233	Israeli History and the Contemporary Novel	
HBT 3563	Women in Modern Hebrew Fiction	
HBT 3564	Motherhood in Modern Hebrew Literature	
HBR 3440	Translation in Israeli Media	
HBR 3443	Hebrew News and Media	
HBR 4930	Special Topics	
HMW 4200	Readings in Modern Hebrew Literature 1	
HMW 4201	Readings in Modern Hebrew Literature 2	
Critical Concentration		
Although courses may appear in more than one group, they may be counted toward only one group		
Select 9 credits from one area:		9
Comparative Cultural Studies		

Film and Visual Culture	
Literary Studies	
Medieval and Early Modern Studies	
Total Credits	33

Placement

In all languages, students with either a native background in the language or prior study in that language, might be eligible to place out of the preparatory language courses and should meet with the undergraduate coordinator to arrange for placement assessment.

Related Hebrew or Jewish Programs

- Bachelor of Arts in Foreign Languages and Literatures, Hebrew (p. 691)
- Bachelor of Arts in Jewish Studies (p. 829)
- Bachelor of Arts in Interdisciplinary Studies, Middle Eastern Languages and Cultures (p.)
- Hebrew minor (p. 787)
- Jewish Studies minor (p. 833)
- European Jewish Studies certificate (p. 688)
- Holocaust Studies certificate (p. 798)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160501&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete HBR 1130 or higher-level Hebrew Language course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete HBR 1131 or higher-level Hebrew Language course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete HBR 2220 or a higher-level Hebrew Language course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
HBR 1130	Beginning Modern Hebrew 1 (**Critical Tracking**)	5
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
HBR 1131	Beginning Modern Hebrew 2 (**Critical Tracking**)	5
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological or Physical Sciences (area **not** taken in semester one)		3
State Core Gen Ed Mathematics (p. 23)		3
Select one science laboratory (Gen Ed Physical Sciences or Biological)		1
	Credits	15
Semester Three		
HBR 2220	Intermediate Modern Hebrew 1 (**Critical Tracking**)	4
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
HBR 2221	Intermediate Modern Hebrew 2	4
Advanced elective (3000 level or above, in the major)		3
Electives (3000 level or above, not in major)		6
Gen Ed Social and Behavioral Sciences and Diversity		3
	Credits	16
Semester Five		
HBR 3410	Advanced Modern Hebrew 1 (Gen Ed Humanities and International)	3
Critical concentration course		3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Advanced elective (3000 level or above; in the major)		3
	Credits	15
Semester Six		
HBR 3411	Advanced Modern Hebrew 2	3
Advanced elective (3000 level or above; in the major)		3
Elective (3000 level or above, not in major)		3
Electives		5
	Credits	14
Semester Seven		
Critical concentration course		3
Advanced elective (3000 level or above; in the major)		3
Advanced elective (4000 level or above; in the major)		3
Elective (3000 level or above, not in major)		3
Elective or senior thesis option		3
	Credits	15
Semester Eight		
Advanced elective (4000 level or above; in the major)		3
Critical concentration course		3
Electives (3000 level or above, not in major)		6
Elective		3
	Credits	15
	Total Credits	120

Critical Concentration Courses | 9 Credits from One Concentration

Although courses may appear in more than one group, they may be counted toward only one group.

Code	Title	Credits
Comparative Cultural Studies		
ABT 3500	Arabic Culture	3

ABT 4131	The Qur'an as Literature	3
ARA 3510	The Arab Woman	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CZT 3564	Modern Czech Culture and Society	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3003	German Culture and Civilization 1	3
GET 3004	Modern German Culture and Civilization	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
HAI 3930	Haitian Culture and Society	3
HAT 3564	Haitian Culture and Society	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3500	Japanese Culture	3
JPT 4502	Japanese Folklore	3
RUT 3443	War and Peace	3
RUT 3500	Russian Cultural Heritage	3
RUT 3501	Contemporary Russian Culture and Society	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3504	Russia Today	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3524	Russia through Film	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 4450	Russian Modernism	3
VTT 3500	Vietnamese Culture	3
YOT 3500	Yoruba Diaspora in the New World	3
Film and Visual Culture		
CHI 4930	Special Topics in Chinese Studies	3
CHT 3391	Chinese Film and Media	4
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	4
FRT 3520	French Cinema	4
FRT 3561	Women in French Literature and/or Cinema	3-4
FRT 4523	European Identities, European Cinemas	4
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
HBR 4930	Special Topics	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPN 4930	Special Topics in Japanese Studies	3
JPT 3391	Introduction to Japanese Film	4
PLT 3520	Polish Cinema	4
RUT 3524	Russia through Film	3
SSA 4930	Special Topics in African Studies (African Film)	3
Literary Studies		
ABT 3130	Arabic Literary Heritage 1	3
ABT 4131	The Qur'an as Literature	3
CHI 4930	Special Topics in Chinese Studies	3
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 4111	Dream of the Red Chamber	3
CHT 4603	Journey to the West	3
FRT 3004	Monuments and Masterpieces of France	3

FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3200	Medieval Literary Culture	3
GET 3501	History, Literature and Arts of Berlin	3
GET 3580	Representations of War in Literature and Visual Media	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
GET 4930	Variable Topics in German Studies	3
HAT 3503	Haitian Culture and Literature in Translation	3
HBR 4930	Special Topics	3
HBT 3223	Identity and Dissent in the Hebrew Short Story	3
HBT 3233	Israeli History and the Contemporary Novel	3
HBT 3563	Women in Modern Hebrew Fiction	3
HBT 3564	Motherhood in Modern Hebrew Literature	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3140	Modern Women Writers	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
PLT 3930	Special Topics in Polish Studies	3
RUT 3101	Russian Masterpieces	3
RUT 3441	Tolstoy and Dostoevsky	3
RUT 3442	Themes from Russian Literature	3
RUT 3443	War and Peace	3
RUT 3452	Russian Literature of the Twentieth Century	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 3930	Variable Topics in Russian Studies	3
RUT 4440	Pushkin and Gogol	3
RUT 4450	Russian Modernism	3
SST 4502	African Oral Literature	3
SSW 3303	Swahili Oral Literature	3
SSW 4713	African Women Writers	3
VTN 4930	Special Topics in Vietnamese Studies	3
YOR 4502	Yoruba Oral Literature	3
Medieval and Early Modern Studies		
ARA 3510	The Arab Woman	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4603	Journey to the West	3
GET 3200	Medieval Literary Culture	3
ITT 3431	Italy and Pilgrimages	3
JPT 3300	Samurai War Tales	3
MEM 3003	Introduction to the Medieval World	3
MEM 3300	Castles and Cloisters: An Introduction to Medieval Communities	3
MEM 3301	Palaces and Cities: An Introduction to Early Modern Communities	3
MEM 3730	Studies in the Holy Roman Empire	3
MEM 3805	Research Methods in Medieval and Early Modern Studies	1
MEM 3931	Variable Topics in Medieval and Early Modern Studies	3

Academic Learning Compact

The Foreign Languages and Literatures (FLL) major enables students to achieve communicative competence in their language(s) of specialization. Students will become knowledgeable in the culture and literature and/or linguistics associated with their language area(s) such that they will be able to critically analyze and evaluate authentic sources in the target language(s) and formulate independent, critical perspectives in the target language(s). Further, students will learn the intercultural skills and practical know-how necessary to negotiate traveling, studying, and living in the target culture(s).

Before Graduating Students Must

- Satisfy the Florida statutes for the College-Level Academic Skills Requirement.
- Complete requirements for the baccalaureate degree, as determined by faculty.
- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and define cultural concepts, literary production, and/or linguistic structure in language(s) of specialization.

Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I, R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

Hebrew Minor

UF offers a number of new courses on Hebrew, Israeli, and Yiddish language and culture. These include language and content courses, advanced seminars, and a reading honors course. This complete program takes students from the Hebrew alphabet into contemporary Israeli and Jewish culture.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Hebrew or Jewish Programs**

Students pursuing a major in Jewish studies are not eligible for this minor.

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
HBR 3410	Advanced Modern Hebrew 1	3
HBR 3411	Advanced Modern Hebrew 2	3
Approved Hebrew electives		6
Additional approved elective		3
Total Credits		15

Approved Electives

Select three, two of which must have HBR, HBT, or HMW prefix

Code	Title	Credits
Hebrew Courses		
Select at least two:		
HBR 3440	Translation in Israeli Media	3
HBR 3443	Hebrew News and Media	3
HBR 4930	Special Topics	3
HBT 3100	Introduction to Israeli Culture	3
HBT 3233	Israeli History and the Contemporary Novel	3
HBT 3563	Women in Modern Hebrew Fiction	3
HBT 3564	Motherhood in Modern Hebrew Literature	3
HMW 4200	Readings in Modern Hebrew Literature 1	3
HMW 4201	Readings in Modern Hebrew Literature 2	3
Additional Elective Courses		
Select no more than one:		
AMH 3531	The American Jewish Experience 1880-2000	3
ARA 4930	Special Topics	3
CPO 4727	Judaism and Politics	3
EUH 3670	Jewish History from 711 to 1492	3
EUH 3671	Jewish History from 1492-1750	3
EUH 3672	Modern European Jewish History	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
JST 3930	Special Topics in Jewish Studies	3
POS/INR/CPO course (with reference to the Middle East conflict)		3
REL 2210	Hebrew Scriptures	3
REL 3321	Early Judaism and Christianity	3
REL 3693	Judaism and Nature	3
REL 3938	Special Topics in Religion	3
REL 4209	Dead Sea Scrolls and Early Jewish Literature	3
REL 4611	Israelite Religion	3

Related Hebrew or Jewish Programs

- Bachelor of Arts in Foreign Languages and Literatures, Hebrew (p. 782)
- Bachelor of Arts in Jewish Studies (p. 829)
- Bachelor of Arts in Interdisciplinary Studies, Middle Eastern Languages and Cultures (p.)
- Jewish Studies minor (p. 833)
- European Jewish Studies certificate (p. 688)
- Holocaust Studies certificate (p. 798)

Hispanic and Latin American Languages, Literatures and Linguistics

Focusing on globalization, diversity, and public engagement, the Hispanic and Latin American Languages, Literatures and Linguistics major provides an interdisciplinary, multilingual approach to the study of Spanish- and Portuguese-speaking cultures drawing from a variety of contemporary perspectives on linguistics, literature, film, theatre, social service, and professions in health, law, business, education, and media.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** Spanish (p. 942) | Portuguese (p. 891) | Spanish and Portuguese (p. 790)
- **Credits for Degree:** 120
- **Contact**
- **Additional Information**
- **Related Hispanic and Latin American Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Hispanic and Latin American Languages, Literatures and Linguistics major offers the opportunity to gain proficiency in Spanish and/or Portuguese, two of the most important languages spoken in the United States, the Western Hemisphere and the world. The department offers courses of study in language, culture, linguistics, and literature, as well as a series of courses in languages for the professions, which focus on medical, legal, business and other professional contexts.

By studying the literary and linguistic heritage of Spanish and Portuguese, students gain critical reading and writing skills that help them acquire and refine their abilities to speak, understand, read and write one of both of these languages.

The Spanish specialization focuses on the language and culture of Spain and Spanish-America, while the Portuguese specialization stresses the language and culture of Brazil, with complementary study of Portugal and Lusophone Africa. The combined specialization recognizes the increasingly prominent roles that Brazil, Spain and Latin America all play in international affairs, especially as they relate to Florida. Spanish- and Portuguese-speakers constitute the fastest growing immigrant populations in Florida. Studying both languages and cultures provide a competitive edge for those seeking careers in business, industry, tourism, health care, agricultural affairs, government, and education.

Coursework for the Major

The different specializations within the Hispanic and Latin American Languages, Literatures and Linguistics major require different coursework, depending on the student focus.

Related Hispanic and Latin American Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Portuguese minor (p. 895)
- Spanish minor (p. 947)
- Spanish for the Professions certificate (p. 947)

Academic Learning Compact

The Bachelor of Arts in Hispanic and Latin American Languages, Literatures and Linguistics enables students to achieve communicative competence in Spanish and/or Portuguese, with an emphasis on all four language skills: speaking, comprehension, reading, and writing. Students will become knowledgeable in the areas of Hispanic and Lusophone cultures, literatures and/or linguistics, and they will learn how to interpret Spanish- and/or Portuguese language texts according to their cultural, literary and linguistic content.

Before Graduating Students Must

- Complete all requirements for the baccalaureate degree, as determined by faculty.
- Satisfactorily complete a written assignment in a 4000-level course that includes the written analysis of a text according to its cultural, literary and/or linguistic content. The text analyzed and the analysis will be in Spanish/Portuguese.
- Satisfactorily deliver an oral presentation in Spanish/Portuguese on the topic of the written paper. Presentation will include answering questions from audience members.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify cultural correlates, literary production and/or linguistic structure of texts written in Spanish and/or Portuguese.

Critical Thinking

2. Analyze cultural correlates, literary production and/or linguistic structure of texts written in Spanish and/or Portuguese.

Communication

3. Demonstrate competence in written Spanish and/or Portuguese, including knowledge of grammar, vocabulary, orthography and appropriate stylistic conventions.
4. Demonstrate communicative competence in spoken Spanish and/or Portuguese, including the ability to understand the spoken language, speak with correct grammar, vocabulary and pronunciation, and use appropriate registers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
SPN 2240; POR 3224	I	I	I	I
SPN 3300; POR 3242	R	R	R	R
SPN 3510/SPN 3520; POR 3500/POR 3502	I, R	I, R	I, R	I, R
SPN 3700; POR 3701	I, R	I, R	I, R	I, R
SPW 3030/SPW 3031/ SPW 3100/SPW 3101	I, R	I, R	I, R	I, R
SPN or POR course, 4000 level	R, A	R, A	R, A	R, A
SPW or POW course, 4000 level	R, A	R, A	R, A	R, A

Assessment Types

- Written paper
- Oral presentation/discussion

Spanish and Portuguese

Hispanic and Latin American Languages, Literatures and Linguistics

The major in Hispanic and Latin American Languages, Literatures and Linguistics is excellent preparation for careers in business, journalism and communications, law, medicine, the service professions, and teaching.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** Spanish (p. 942) | Portuguese (p. 891) | Spanish and Portuguese (p. 790)
- **Credits for Degree:** 120
- **Additional Information**
- **Contact**
- **Related Hispanic and Latin American Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Hispanic and Latin American Languages, Literatures and Linguistics major offers the opportunity to gain proficiency in Spanish and/or Portuguese, two of the most important languages spoken in the United States, the Western Hemisphere and the world. The department offers courses of study in language, culture, linguistics, and literature, as well as a series of courses in languages for the professions, which focus on medical, legal, business and other professional contexts.

By studying the literary and linguistic heritage of Spanish and Portuguese, students gain critical reading and writing skills that help them acquire and refine their abilities to speak, understand, read and write one of both of these languages.

The Spanish specialization focuses on the language and culture of Spain and Spanish-America, while the Portuguese specialization stresses the language and culture of Brazil, with complementary study of Portugal and Lusophone Africa. The combined specialization recognizes the increasingly prominent roles that Brazil, Spain and Latin America all play in international affairs, especially as they relate to Florida. Spanish- and Portuguese-speakers constitute the fastest growing immigrant populations in Florida. Studying both languages and cultures provide a competitive edge for those seeking careers in business, industry, tourism, health care, agricultural affairs, government, and education.

Coursework for the Major

The different specializations within the Hispanic and Latin American Languages, Literatures and Linguistics major require different coursework, depending on the student focus.

Related Hispanic and Latin American Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Portuguese minor (p. 895)
- Spanish minor (p. 947)
- Spanish for the Professions certificate (p. 947)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160905&track=01) may be used for transfer students.

The combined track is designed for students who already possess some proficiency in one or both languages and do not need to begin with beginning coursework in both. The more common case of previous coursework in Spanish is represented in the critical tracking, but student who have prior knowledge of Portuguese and need to start with basic Spanish should consult with the undergraduate advisors.

Semester 1

- Complete POR 1130 if needed
- Complete SPN 2200
- 2.0 UF GPA required

Semester 2

- Complete POR 1131 (or POR 3010)
- Complete SPN 2200
- 2.0 UF GPA required

Semester 3

- Complete POR 3242
- Complete SPN 2240 or SPN 2340
- 2.5 critical-tracking GPA required
- 2.0 UF GPA required

Semester 4

- Complete one additional POR 3XXX course
- 2.5 critical-tracking GPA required
- 2.0 UF GPA required

Semester 5

- Complete SPN 3300 or SPN 3350
- 2.5 critical-tracking GPA required
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
POR 1130	Beginning Portuguese 1 (**Critical Tracking**)	5
SPN 2200	Intermediate Spanish 1 (**Critical Tracking**)	3
State Core Gen Ed Biological or Physical Sciences OR State Core Gen Ed Mathematics		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
POR 1131	Beginning Portuguese 2 (**Critical Tracking**)	
POR 3010	Introduction to Portuguese and Brazil: Accelerated (**Critical Tracking**)	
SPN 2201	Intermediate Spanish 2	3
State Core Gen Ed Biological or Physical Sciences OR State Core Gen Ed Mathematics		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Three		
POR 3242	Oral and Written Practice (**Critical Tracking**; recommended; or other POR or POW or PRT 3000/4000-level course)	3
Select one:		3
SPN 2240	Intensive Communication Skills ((**Critical Tracking**))	
SPN 2340	Introduction to Reading and Writing Spanish for Heritage Learners ((**Critical Tracking**))	
Gen Ed Biological or Physical Sciences (area **not** taken in semester one)		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Four		
Select one:		3
SPN 3300	Spanish Grammar and Composition 1 ((**Critical Tracking**))	
SPN 3350	Spanish Grammar and Composition for Heritage Learners ((**Critical Tracking**))	
SPN/SPW/POR/POW 3xxx/4xxx required courses (**Critical Tracking**)		3
Elective (3000 level and above, not in major)		3
Gen Ed Humanities		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
SPN/SPW/POR/POW 3xxx/4xxx required courses (**Critical Tracking**)		3
Gen Ed Composition; Writing Requirement		3
Electives (3000 level and above, not in major)		6
Gen Ed Physical Sciences		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
	Credits	16
Semester Six		
SPN/SPW/POR/POW 3xxx/4xxx required courses (**Critical Tracking**)		6
Gen Ed Biological Sciences		3
Elective (3000 level and above, not in major)		3
Elective		3
	Credits	15
Semester Seven		
SPN/SPW/POR/POW 3xxx/4xxx required courses (**Critical Tracking**)		6
Electives (3000 level or above, not in major, or outstanding Gen Ed courses)		9
	Credits	15
Semester Eight		
SPN/SPW/POR/POW 3xxx/4xxx required courses (**Critical Tracking**)		9

Electives		6
	Credits	15
	Total Credits	120

Academic Learning Compact

The Bachelor of Arts in Hispanic and Latin American Languages, Literatures and Linguistics enables students to achieve communicative competence in Spanish and/or Portuguese, with an emphasis on all four language skills: speaking, comprehension, reading, and writing. Students will become knowledgeable in the areas of Hispanic and Lusophone cultures, literatures and/or linguistics, and they will learn how to interpret Spanish- and/or Portuguese language texts according to their cultural, literary and linguistic content.

Before Graduating Students Must

- Complete all requirements for the baccalaureate degree, as determined by faculty.
- Satisfactorily complete a written assignment in a 4000-level course that includes the written analysis of a text according to its cultural, literary and/or linguistic content. The text analyzed and the analysis will be in Spanish/Portuguese.
- Satisfactorily deliver an oral presentation in Spanish/Portuguese on the topic of the written paper. Presentation will include answering questions from audience members.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify cultural correlates, literary production and/or linguistic structure of texts written in Spanish and/or Portuguese.

Critical Thinking

2. Analyze cultural correlates, literary production and/or linguistic structure of texts written in Spanish and/or Portuguese.

Communication

3. Demonstrate competence in written Spanish and/or Portuguese, including knowledge of grammar, vocabulary, orthography and appropriate stylistic conventions.
4. Demonstrate communicative competence in spoken Spanish and/or Portuguese, including the ability to understand the spoken language, speak with correct grammar, vocabulary and pronunciation, and use appropriate registers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
SPN 2240; POR 3224	I	I	I	I
SPN 3300; POR 3242	R	R	R	R
SPN 3510/SPN 3520; POR 3500/POR 3502	I, R	I, R	I, R	I, R
SPN 3700; POR 3701	I, R	I, R	I, R	I, R
SPW 3030/SPW 3031/ SPW 3100/SPW 3101	I, R	I, R	I, R	I, R
SPN or POR course, 4000 level	R, A	R, A	R, A	R, A
SPW or POW course, 4000 level	R, A	R, A	R, A	R, A

Assessment Types

- Written paper
- Oral presentation/discussion

History

The history department fosters a learning experience that stands apart from newer modes of instruction at large universities. Amid the shift to larger classes, televised lectures and machine-gradable exams, history faculty have chosen to follow a more traditional path. The department's emphasis

on small courses, analytical reading, lively debate, and interpretative writing offers committed students unique rewards. It also comes with high expectations.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related History Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The history major focuses on the development of three related skill sets critical to professional success in today's complex world:

Writing

History is a writing-intensive discipline. Although assignments vary by course, students will be taught a set of critical skills and research techniques that will help them gather and analyze sources and then marshal the evidence in the presentation of coherent historical arguments.

Critical Analysis

In the typical upper-division course, students read an average of 75 to 125 pages each week. Students will be expected to synthesize the material effectively and come to class prepared to discuss the readings.

Oral Communication

Rather than merely recounting facts from readings and lectures, students will develop their own interpretations of historical events and ideas and discuss them with their peers and professor. They will be expected to contribute actively in the classroom and will on occasion lead discussions and give short reports.

Coursework for the Major

Required Coursework

All history majors must complete a minimum of 36 credits in history with minimum grades of C. Majors must take a minimum of 21 credits of history at UF. History majors may enroll in a maximum of three history courses per semester.

Requirements include:

- HIS 3942, a methodological introduction to the study of history, should be taken in the first year in the major and it must be taken no later than Semester 5.
- AMH 4930 / AFH 4930 / ASH 4930 / EUH 4930 / HIS 4930 / LAH 4930 / WOH 4930 is the capstone course of the major and normally taken in the senior year, although students who plan to write an honors thesis are encouraged to take the course as juniors. In this seminar, students produce a substantial research paper based on primary source research. Enrollment in the research seminar is restricted to majors. The History Research Seminar must be taken at UF.
- 30 additional credits of history courses:
  - at least 21 of the 30 credits must be at the 3000/4000 level
  - At least 9 credits (three courses) in American history (AMH) and European history (EUH), with at least one course in AMH, one course in EUH, and one course in AMH or EUH
  - At least 9 credits (three courses) in AFH, ASH, LAH, or WOH, with a maximum of two courses under any one prefix.
  - The history research seminar may count toward the regional distribution, depending on the prefix of the course taken (AFH, AMH, ASH, EUH, LAH, or WOH).

Prior to graduating, history majors complete an online exit survey (http://our.ufl.edu/historysurvey).

Only exam (AICE, AP, CLEP or IB) credits with course equivalencies for UF courses count toward the requirements for the major and then only at the 2000 level. AMH 0301, EUH 0301, and WOH 0301 do not count toward the major.

Recommended Coursework

Majors are encouraged, but not required, to take a total of nine credits at the introductory 2000 level, including one course in American history (AMH), one course in European history (EUH), and one course in African, Asian, Latin American, or World history (AFH, ASH, LAH, WOH courses).

Combined Degree Program

Majors who are interested in advanced training are encouraged to consider the 4/1 combined degree program.
More Info (http://history.ufl.edu/undergraduate-studies/41-program)

Research

Majors are encouraged to consider advanced research opportunities in history. The department places special emphasis on participation in the history honors program.
More Info (http://history.ufl.edu/undergraduate-studies/undergraduate-honors-program)

Related History Programs

- History minor (p. 797)
- Legal History certificate (p. 835)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=540101&track=01) may be used for transfer students.

Students are advised to take HIS 3942 in their first year as a history major, and it must be taken no later than Semester 5.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 history course at the 2000 level or above
- 2.0 UF GPA required

Semester 3

- Complete 1 additional history course at the 2000 level or above with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 4

- Complete 1 additional history course at the 3000 level or above (recommended) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- By the end of semester 5, students must have completed 4 history courses: HIS 3942, two history courses at the 2000 level or above and one history course at the 3000 level or above
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
HIS 3942	History Practicum (**Critical Tracking**; recommended in the first year)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
Foreign language		3-5
	Credits	15-17
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
History course (**Critical Tracking**; 2000 level or above)		3
Science laboratory (Gen Ed Biological or Physical Sciences)		1
Foreign language		3-5
	Credits	13-15
Semester Three		
Gen Ed Biological or Physical Sciences (area **not** taken in semester two)		3
History course (**Critical Tracking**; Gen Ed Humanities; 2000 level or above)		3
Gen Ed Physical Sciences		3
Electives or foreign language if 4-3-3 option		6
	Credits	15
Semester Four		
Electives		6
History course (**Critical Tracking**; 3000 level or above)		3
Gen Ed Mathematics		3
State Core Gen Ed Social and Behavioral Sciences (p. 23) [1]		3
	Credits	15
Semester Five		
Gen Ed Composition; Writing Requirement		3
Elective		3
History courses (3000 level or above)		6
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Six		
Gen Ed Biological Sciences		3
Electives (3000 level or above, not in major)		6
History courses (3000 level or above)		6
	Credits	15
Semester Seven		
Select one:		3
AMH 4930	History Research Seminar: US	
AFH 4930	History Research Seminar: Africa	
ASH 4930	History Research Seminar: Asia	
EUH 4930	History Research Seminar: Europe	
HIS 4930	History Research Seminar	
LAH 4930	History Research Seminar: Latin America	
WOH 4930	History Research Seminar: World History	
HIS 4970	Senior Thesis (if honors candidate)	2
Elective		3
Electives (3000 level or above, not in major)		6
History course (3000 level or above)		3
	Credits	17
Semester Eight		
HIS 4970	Senior Thesis (if honors candidate)	2
Elective		1
Electives (3000 level or above, not in major)		6
History courses (3000 level or above)		6
	Credits	15
	Total Credits	120

[1] If AMH 2020 not taken in Semester two or three.

Academic Learning Compact

The history major exposes students to key issues in the history of the United States, Europe and areas of Africa, Asia and Latin America. Students will develop the critical interpretative skills needed to assess both primary and secondary sources in the complex task of thinking about the past. Students will master a set of research skills that help them develop their own historical arguments. Significant emphasis is laid on effective written communication reflected in the cogency of arguments and use of evidence.

Before Graduating Students Must

- Complete the distribution requirements of the major (6 credits in AMH, 6 credits EUH, 6 credits in AFH, ASH or LAH) with minimum grades of C, as graded by department rubric.
- Complete HIS 3942 and HIS 4930 with minimum grades of C, as graded by department rubric.
- Complete 35 credits in history, including at least 26 at the 3000/4000 level, and all with minimum grades of C, as graded by department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Acquire and apply basic research skills learned through use of print and electronic resources of the library and web.

Critical Thinking

2. Critically assess and interpret primary and secondary sources.
3. Identify a historical research topic related to the focus of the research seminar, develop knowledge of the topic through research, and create historical arguments using evidence effectively with clear purpose.

Communication

4. Produce an effectively written analytical research paper based in research of primary sources, framed within the secondary literature and offering a coherent historical argument supported by evidence.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
AFH, ASH, LAH 3000-4000 level (6 credits)	R	R	R	R
AMH 3000-4000 level (6 credits)	R	R	R	R
AFH, AMH, ASH, EUH, HIS, LAH, WOH 3000-4000 level (15 credits)	R	R	R	R
AFH 4930, AMH 4930, ASH 4930, EUH 4930, HIS 4930, LAH 4930: Senior Seminar	A	A	A	A
EUH 3000-4000 level (6 credits)	R	R	R	R
HIS 3942 History Practicum	I, A	I, A	I	I

Assessment Types

- Skills-set exam
- Capstone statement for final project

History Minor

This minor provides a solid foundation in the study of history, while enhancing a range of skills including critical thinking, historical analysis, persuasive writing, and oral communication.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C and no optional S-U
- **Related History Programs**

Requirements

- Only three credits may be taken at the 1000/2000 level
- Individual study courses will not be accepted
- Transfer students must take at least nine credits of history at UF.
- All 15 credits for the minor must be taken in courses with the prefix AFH, AMH, ASH, EUH, HIS, LAH, or WOH
- Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
AFH, AMH, ASH, EUH, LAH, or WOH course (2000 level)		3
AFH, AMH, ASH, EUH, HIS, LAH, or WOH courses (3000/4000 level)		12-15
Total Credits		15-18

Related History Programs

- Bachelor of Arts in History (p. 793)
- Legal History certificate (p. 835)

Holocaust Studies Certificate

The Holocaust studies certificate provides students from any undergraduate major with an interdisciplinary concentration that focuses on intellectual approaches to the Holocaust, other human rights catastrophes, and their representation.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Related Hebrew or Jewish Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The Holocaust is the greatest crime in human history. It has spawned international libraries of historical studies, religious and philosophical treatises, social science studies in psychology and other fields, novels, poems, and films to say nothing of art, monuments, and architecture.

In and of itself, the Holocaust is critical for an understanding of the depths of human experience through a variety of disciplines. But it also provides a way for understanding how practitioners of different disciplines, from history to anthropology to literature to film, approach the human experience through a crucial common theme.

The certificate provides social science and humanities majors with additional background for a number of career choices ranging from the study of law to human rights work to work in NGOs to library or museum employment or even international business.

Required Courses

Course substitutions are possible at the discretion of the director of the Center for Jewish Studies.

Code	Title	Credits
EUH 3033/JST 3930	History of the Holocaust	3
EUH 3930/JST 3930	Holocaust Studies	3
Holocaust-related courses in history and the social sciences		6
Suggested Holocaust-related courses in literature and film		6
Total Credits		18

Related Hebrew or Jewish Programs

- Bachelor of Arts in Foreign Languages and Literatures, Hebrew (p. 782)
- Bachelor of Arts in Jewish Studies (p. 829)
- Bachelor of Arts in Interdisciplinary Studies, Middle Eastern Languages and Cultures (p. 799)
- Hebrew minor (p. 787)
- Jewish Studies minor (p. 833)
- European Jewish Studies certificate (p. 688)

Innovation Minor

This minor provides undergraduates in the Innovation Academy an overview of the major functional elements of innovation – creativity, entrepreneurship, ethics, and leadership – and an opportunity to apply them in a multidisciplinary project.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15-17 | Completed with minimum grades of C and no S-U
- **Additional Information**

Requirements

- Open only to Innovation Academy students.
- All courses for the minor must be completed at UF.
- Flexible learning courses will not apply toward the minor.

With advance approval from the Innovation Academy office, additional 2000-level and above courses may be substituted for required courses.

Required Courses

Code	Title	Credits
IDS 1940	Creativity in Context	2
IDS 1359	Creativity in Action	2
ENT 3003	Principles of Entrepreneurship	3-4
or EGN 4641	Engineering Entrepreneurship	
AEC 3410	Fostering Innovation through Leadership	3-4
or EGS 4038	Engineering Leadership	
or GEB 3017	Leading Organizations	
PHI 3641	Conduct, Change and Consequences: Making Ethical Decisions	3
ENT 4015	The Venture Accelerator	2
or IDS 4950	Innovation Academy Senior Project	
Total Credits		15-17

Interdisciplinary Studies | CLAS

The College of Liberal Arts and Sciences recognizes that students' academic and professional interests may include more than one discipline and that some majors are not formally available at the university. Because interdisciplinary approaches, research, and curricular activities are becoming increasingly appropriate and valuable within the liberal arts and sciences and other fields, UF students have the option to develop and pursue interdisciplinary (IDS) majors that cross the boundaries of numerous disciplines.

Overviews

- **Additional Information**

IDS is a limited-access major in CLAS that requires a minimum 3.0 UF GPA. Students must select two tenured or tenure-accruing faculty members who agree to work with them from the planning stages to completion of the thesis research proposal. At least one faculty advisor must be a member of CLAS; faculty advisors cannot be from the same department.

Students should begin planning early. They should declare a related CLAS major and then apply to IDS as early as semester four or at the latest by semester five. Transfer students must complete their first semester with a UF GPA of 3.0 before they can apply to this program. Late application may

result in denial of admission to the program. Students interested in pursuing an interdisciplinary major should contact the director of the particular specialization listed below or view the IDS information on the college's website.

Each applicant and their interdisciplinary program must be approved by the inter-college Committee on Interdisciplinary Studies and include at least 20 credits of 3000/4000-level coursework taken in two or more departments. All other CLAS degree requirements (e.g., foreign language, basic distribution, electives, etc.) must be met. The student must also take at least seven credits of IDS 4906 (or equivalent courses) under the direction of one or both of the supervisory faculty members and produce a senior thesis.

Interdisciplinary majors may also graduate with honors recognition. Requirements are the same as for department majors, with the additional provision that *magna cum laude* or *summa cum laude* recognition must be recommended by two members of the student's supervisory committee (including the principal supervisor), who will affirm that the student conducted an individual project in IDS 4906 (or equivalent).

Students in science tracks who are enrolled in IDS 4905 work 3-4 hours per week in the laboratory for each credit earned.

All students with IDS majors are required to complete IDS 1161 in semester 1 or 2.

In addition to the ten established concentrations, students may design a customized course of study in consultation with faculty advisors relevant to the interdisciplinary thesis project. If interested in this option, students should first contact the associate dean for IDS majors.

American Indian and Indigenous Studies

The Department of Anthropology and the College of Liberal Arts and Sciences have established a concentration in American Indian and Indigenous Studies (IDS-AIIS). The AIIS concentration is an extension of the minor and is open to all students with an interest in American Indian topics.

About this IDS Major

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Contact:** Email (baniwa05@ufl.edu) | 352.392.3625
- **Related Programs:** American Indian and Indigenous Studies minor (p. 530)

The concentration offers courses which cut across all disciplines, including anthropology, botany, geology, history, Latin American studies, religion, and wildlife studies. This concentration deals with the issues and concerns of indigenous peoples. Students will have the opportunity to pursue research, write a senior thesis and prepare themselves for graduate work in the field of American Indian and/or indigenous studies.

Biochemistry and Molecular Biology

Applicants with a strong background in basic chemistry and biology can pursue advanced-level work, including required courses in the Department of Biochemistry and Molecular Biology, research in biochemistry and molecular biology and other electives in biochemistry and molecular biology, botany, chemistry, microbiology, neuroscience, pharmacology, and zoology.

About this IDS Major

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Contact:** Email (korolymj@ufl.edu) | Center for Precollegiate Education and Training | 352.392.7685
- **Related Programs:** Bachelor of Science in Chemistry, Biochemistry (p. 615); Chemistry minor (p. 611)

Graduates will have excellent backgrounds for research in a variety of the basic medical sciences and are qualified for graduate and professional school programs.

Biological Illustration

This program provides a broad program in biological illustration to students preparing to work with museums, university botany, zoology, entomology, anthropology or medical departments and botanical gardens or research organizations.

About this IDS Major

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Contact:** Email (mfields@ufl.edu) | 2014 Turlington Hall (http://campusmap.ufl.edu/?loc=0267) | 352.392.2264

Enrollment is restricted because of the tutorial nature of much of the instruction. The program admits only a few well-qualified students each year.

For this specialization only, students need to apply in their second semester at UF.

Film and Media Studies

The interdisciplinary B.A., with a concentration in film and media studies, enables students to pursue a liberal arts approach to audio-visual studies. The courses offered provide a range of training from professional and applied (anthropology, architecture, education and theatre) to historical and experimental (art, English, Germanic, Slavic and Romance languages).

About this IDS Major

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Contact:** Email (mturim@ufl.edu) | 4330 Turlington Hall (http://campusmap.ufl.edu/?loc=0267) | 352.294.2835
- **Related Programs:** Bachelor of Arts in English, Film and Media Studies (p. 683)

The film and media studies major encourages students to integrate these offerings by working in both theory and production. For the senior thesis, a student may choose an essay, a film script, a short film or video, or work in a related medium.

The major requires 27 credits minimum, 20 credits of core courses and seven credits from IDS 4906 senior independent work. Majors should take ENG 3115, because it serves as the prerequisite for ENG 4136. Students and sponsors select courses for CLAS electives.

Because many of the courses in the departments of Art, English and Theatre have prerequisites, students should plan their freshman and sophomore work with the major in mind. Under certain circumstances, instructors will waive some prerequisites for IDS majors, but with space at a premium (especially in studio and production classes), students should not try to avoid any requirements. Students may, however, use up to nine credits of 2000-level prerequisites as electives.

Early preparation for the major should include ENG 2300. Other useful courses are:

Code	Title	Credits
GET 3520	Early German Cinema: 1945	4
TPP 2100	Acting for Non-Majors	3
TPP 2110	Acting 1-Instrument and Discipline	3
TPP 2260	Acting for the Camera	3
ARH 2051	Introduction to the Principles and History of Art 2	3
PGY 2441C	Photography: Images, Order and Idea	3
PGY 2442C	Photography: Figure and Ground	3

The major is selective, requiring a 3.0 minimum GPA, two sponsors chosen from faculty in the program and approval of the Interdisciplinary Studies Committee. The application form and information are available online.

Latin American Studies

The Latin American studies concentration offers students the opportunity to pursue individualized study in an increasingly important region of the world (e.g., Brazil is Florida's largest trading partner), making use of UF's extraordinary resources.

About this IDS Major

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120

- **Additional Information**
- **Contact:** Email (pjw@latam.ufl.edu) | 352.392.0375
- **Related Programs:** Latin American Studies minor (p. 834); Latin American Studies certificate (p. 833)

The UF Center for Latin American Studies was founded in 1930 and is one of the largest and most prestigious institutions of its kind in the United States. UF has approximately 180 faculty members whose teaching and research focus to a significant extent is on Latin America and the Caribbean. The Latin American Collection of the George A. Smathers Library is one of few stand-alone collections in the United States and features extraordinary holdings on Brazil, the Caribbean and other areas of Latin America.

This program is built upon the social sciences, humanities, languages and area studies. It requires 21 credits of 3000/4000-level coursework in Latin American and Caribbean area courses, intermediate proficiency in a language of Latin America and the Caribbean (typically Spanish, Portuguese or Haitian Creole), a senior thesis and at least seven credits of IDS 4906.

Medieval and Early Modern Studies

This major focuses on medieval and early modern European culture and its influences on the modern world. Students examine the distinctive forms of cultural organization in these periods, obtain knowledge about medieval and early modern communities (monastic, chivalric, peasant, early urban), and familiarize themselves with some of the world's greatest literature.

About this IDS Major

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Contact:** Email (hasty@ufl.edu) | 263 Dauer Hall (http://campusmap.ufl.edu/?loc=0111) | 352.392.2101
- **Related Programs:** Medieval and Early Modern Studies minor (p. 862)

Students are encouraged to seek historical perspectives that can contribute to current discussions about ethnicity and nationality, colonialism, technologies and their effects, gender and sexuality and the characteristics of historical and fictional narratives. This IDS major involves critical thinking, textual analysis and creativity, and is excellent preprofessional preparation for careers in law, journalism, government services, medicine, library science, international work and teaching.

Middle Eastern Languages and Cultures

Students design a concentration that focuses on an Arabic or Hebrew language and culture. Students acquire knowledge of relationships among language, literature, politics, religion, arts and economics. The major consists of 33 credits and culminates in a senior thesis.

About this IDS Major

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information:**
  - **Arabic**
  - **Hebrew**
- **Contact:**
  - Arabic: Email (yah@ufl.edu) | 352.273.2958
  - Hebrew: Email (yah@ufl.edu) | 352.846.3845
- **Related Programs:** Bachelor of Arts in Foreign Languages and Literatures, Arabic (p. 550) or Hebrew (p. 782); Arabic Language and Literature minor (p. 556); Hebrew minor (p. 787); Jewish Studies minor (p. 833)

This program provides a two-track major, Arabic and Hebrew. In addition to the major's other requirements and electives, all students must take at least one course (language or content-based) in the track of the second language.

Arabic

The Arabic language is the key to understanding the culture and history of more than 22 nations and more than 206 million speakers. It is the language of an ancient civilization and today is spoken widely across North Africa, the Middle East and the Arabian Peninsula. Arabic is also the liturgical language of more than a billion Muslims, and it is one of the six official languages of the United Nations. The interdisciplinary major in Arabic language

and culture enables students to develop an appreciation for the complexity of the many facets of the Arab world: its society, culture, history, arts, religions, and literary heritage. This major is therefore ideal for students considering careers in diplomacy, journalism, consulting, business, foreign service, translation, and academia. Future graduates would be in great demand for advanced studies in any of these fields.

Arabic Requirements

Code	Title	Credits
ARA 3410	Advanced Arabic 1	6
& ARA 3411	and Advanced Arabic 2	
ARA 4420	Arabic through the Texts	3
ABT 3130	Arabic Literary Heritage 1 (Gen Ed Humanities and International; Writing Requirement)	3
ABT 3500	Arabic Culture (Gen Ed Humanities and International; Writing Requirement; core course)	3
ARA/HBR 4930	Special Topics (Introduction of Semitic Languages; core course)	3
IDS 4906	Interdisciplinary Thesis Research	7
Total Credits		25

Electives

Three to six credits from courses with these prefixes

- ARA, ABT, REL (with reference to Islam or Judaism)
- AFH (with reference to North Africa) and
- CPO and WHO (with reference to the Middle East)

Hebrew

By assuming an interdisciplinary approach to Hebrew language and culture, students acquire knowledge of the close relationship between politics, history, religions, arts, and cultures in Israel. In addition to working toward proficiency in Hebrew, students will develop close reading and critical thinking skills. Students graduating with this major will find job opportunities in Jewish community organizations, the government and consulting. In addition, due to the interdisciplinary nature of the major, students will be well prepared for the rigor of graduate studies in the humanities.

Hebrew Requirements

33 credits

Code	Title	Credits
HBR 3410	Advanced Modern Hebrew 1	6
& HBR 3411	and Advanced Modern Hebrew 2 (Gen Ed Humanities and International)	
ARA/HBR 4930	Special Topics (Comparative Semitic Languages)	3
IDS 4906	Interdisciplinary Thesis Research	7
Select three to six elective credits from prefixes: REL, HBR, HMW, JST, POS (courses related to Judaism, the Bible or the Middle East)		3-6
Total Credits		19-22

An intensive summer study abroad program in Fez, Morocco, is recommended for students at all levels from beginning to advanced. The six-week program earns six transferable credits or 10 credits for beginners.

Modern European Studies

The concentration in modern European studies provides the opportunity to study the geographic region of Europe from an interdisciplinary perspective that incorporates area and language studies. MES students gain extensive language proficiency and experience in modern European studies by fulfilling an expanded language requirement (two additional semesters) and participating in available study-abroad programs.

About this IDS Major

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Contact:** Email (lbooth@ufl.edu) | Center for European Studies | 352.294.7152
- **Additional Information**

The requirements for IDS-MES major are commensurate with the requirements for established IDS concentrations within CLAS. A 3.0 GPA and approval of the CLAS IDS committee are required.

Students choose appropriate disciplines such as anthropology, economics, geography, history, modern languages, political science, and/or sociology to design the core of a major that culminates in a thesis. Through such experience students acquire a thorough knowledge of cultural, economic,

political, and social interrelationships. If unable to participate in study abroad program, students may choose to complete the capstone requirement through internship in an organization that enables them to practice the chosen language and/or fits their selected area of study.

Detailed information is available on the website and students are encouraged to discuss their interests with the Center for European Studies (http://www.ces.ufl.edu/index.shtml).

Neurobiological Sciences

This major focuses on the characteristics and functions of the nervous system. Core courses ensure that students acquire a background in basic sciences, biology and brain science. Through elective courses and completion of an independent research project, supervised by one of the 45 faculty within the Center for Neurobiological Sciences, students can specialize in area(s) of particular interest to them. These areas can include neurochemistry, neurophysiology, neuroembryology, neuroplasticity, and brain/behavior relations. Concentrations are available in behavioral neurobiology, cellular and molecular neurobiology, and cognitive neuroscience.

About this IDS Major

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Contact:** Email (mfields@ufl.edu) | 352.392.2264
- **Related Programs:** Bachelor of Science in Psychology, Behavioral and Cognitive Neuroscience (p. 903)

Many graduates continue their study in neural sciences, including graduate school, professional school in health sciences, and the pharmaceutical industry.

Academic Learning Compacts

American Indian and Indigenous Studies

The interdisciplinary studies major with a concentration in American Indian and indigenous studies provides students with knowledge of the issues and concerns of indigenous peoples of the Western hemisphere. Students will be able to identify and conduct research or field work and understand historical, political, social and religious structures from an indigenous perspective. Students will evaluate the significance, quality and veracity of information gathered in the literature and to apply it effectively. Students will also be able articulate the results of research clearly and effectively.

Before Graduating Students Must

- Satisfactorily complete IDS 4906 (capping 7-12 credits of thesis research), graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define major issues of indigenous peoples and conduct research in any of the disciplines which incorporate American Indian topics.

Critical Thinking

2. Integrate different sources and types of knowledge into holistic perspectives about indigenous peoples.
3. Evaluate the significance, quality and veracity of information gathered in the literature and apply it effectively.

Communication

4. Articulate research results clearly and effectively in speech and in writing in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
IDS 4906, course 1	I, R, A	I, R, A	I, R, A	I, R, A
IDS 4906, course 2	I, R, A	I, R, A	I, R, A	I, R, A
IDS 4906 is the only required course for this major (or equivalent with other prefixes)				

Assessment Types

- Direct assessment of research in the thesis

Biochemistry and Molecular Biology

This interdisciplinary studies major in biochemistry and molecular biology provides students with an understanding of and competence in biochemistry, molecular biology and molecular cell biology. Students will understand and use the scientific approach to gather and verify knowledge. They will be able to draw appropriate conclusions and inferences from properly conducted laboratory research. Students will be able to evaluate the significance, quality and veracity of information gathered via experiment and literature and to apply them effectively. Students will also possess the ability to articulate results clearly and effectively.

Before Graduating Students Must

- Satisfactorily complete IDS 4906 (capping 7-12 credits of thesis research), graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain biochemistry, molecular biology and molecular cell biology.
2. Draw appropriate conclusions and inferences from properly conducted laboratory research.

Critical Thinking

3. Evaluate the significance, quality and veracity of information gathered via experiment and literature and apply them effectively.

Communication

4. Articulate research results clearly and effectively in speech and in writing in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
IDS 4906, course 1	I, R	I, R	I, R	I, R
IDS 4906, course 2	I, R, A	I, R, A	I, R, A	I, R, A
IDS 4906 is the only required course for this major (or equivalent with other prefixes)				

Assessment Types

- Direct assessment of research in the thesis

Biological Illustration

The interdisciplinary studies major in biological illustration provides knowledge of and competence in biology, structural biology and structural zoology. Students will know and use the scientific approach to gather and verify knowledge. Students will be able to draw appropriate conclusions and inferences from properly conducted laboratory research. They will be able to evaluate the significance, quality and veracity of information gathered via experiment and literature and to apply them effectively. Students will also possess the ability to articulate results clearly and effectively.

Before Graduating Students Must

- Satisfactorily complete IDS 4906 (capping 7-12 credits of thesis research), graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate knowledge of and competence in biology, structural botany and structural zoology.
2. Demonstrate knowledge and use of the scientific approach to gather and verify knowledge.

Critical Thinking

3. Draw appropriate conclusions and inferences from properly conducted laboratory research.
4. Evaluate the significance, quality and veracity of information gathered via experiment and literature and apply them effectively.

Communication

5. Articulate research results clearly and effectively in speech and in writing in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
IDS 4906, course 1	I, R	I, R	I, R	I, R	I, R
IDS 4906, course 2	R, A	R, A	R, A	R, A	R, A
IDS 4906 is the only required course for this major (or equivalent with other prefixes)					

Assessment Types

- Direct assessment of research in the thesis

Film and Media Studies

The interdisciplinary studies major in film and media studies provides students with knowledge of film in its diversity and through its techniques. Students will learn film theory and criticism and implement these ideas in the practice of viewing and/or making films. Students will also present ideas clearly and effectively in writing and/or in film/video format as an optional ability.

Before Graduating Students Must

- Satisfactorily complete IDS 4906 (capping 7-12 credits of thesis research), graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain film in its diversity and through its techniques.

Critical Thinking

2. Identify and examine film and/or media theory and criticism and implement these ideas in the practice of viewing and/or making films.

Communication

3. Present ideas clearly and effectively in a well-argued essay.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
IDS 4906, course 1	I, R	I, R	I, R
IDS 4906, course 2	R, A	R, A	R, A
IDS 4906 is the only required course for this major (or equivalent with other prefixes).			

Assessment Types

- Direct assessment of project: essay, new media work, or film or video.

Latin American Studies

The interdisciplinary major in Latin American studies provides students with broad knowledge of contemporary and historical issues relevant to Latin America. The program offers training in areas such as the geography, history, society, economy, politics, religion, arts and culture of Latin America.

Students will demonstrate or otherwise acquire proficiency in at least one major Latin American language and will learn how to identify and conduct relevant research or field work on a Latin America-related topic.

Upon completion of the program, students should be able to evaluate the significance, quality and veracity of information gathered from scholarly sources and to apply it effectively. They also will be able to construct analytical arguments and communicate their perspective confidently in spoken and written form.

Before Graduating Students Must

- Demonstrate satisfactory proficiency in a major Latin American language as determined by successful course completion, adequate score on the AP or SAT II exams or individual oral examination (for native speakers).
- Satisfactorily complete IDS 4906 (capping 7-12 credits of thesis research), graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Conduct interdisciplinary research on a Latin American topic and articulate research results clearly.

Critical Thinking

2. Critically evaluate the significance, quality and veracity of information gathered in the literature and apply it effectively.

Communication

3. Communicate effectively in spoken and written formats.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
IDS 4906	I, R, A	I, R, A	I, R, A
LAS 4935	I, R, A	I, R, A	I, R, A

These are the only required courses for this major (or equivalent with other prefixes).

Assessment Types

- Direct assessment of thesis and research paper

Medieval and Early Modern Studies

The interdisciplinary studies major in medieval and early modern studies provides students with knowledge of the key issues, figures, social and cultural trends and basic chronology of the period or field studied. Students will be able to evaluate the significance, quality and veracity of information gathered in the literature and to apply it effectively. Students will also articulate the results of research clearly and effectively.

Before Graduating Students Must

- Satisfactorily complete IDS 4906 (capping 7-12 credits of thesis research), graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the key issues, figures, social and cultural trends and basic chronology of the period or field studied.

Critical Thinking

2. Evaluate the significance, quality and veracity of information gathered in the literature and apply it effectively.

Communication

3. Articulate research results clearly and effectively in speech and in writing in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
IDS 4906, course 1	I, R, A	I, R, A	I, R, A
IDS 4906, course 2	I, R, A	I, R, A	I, R, A
IDS 4906 is the only required course for this major (or equivalent with other prefixes).			

Assessment Types

- Direct assessment of research in the thesis

Middle Eastern Languages and Cultures, Arabic and Hebrew

The interdisciplinary studies major in middle eastern languages and cultures provides students with knowledge of political, cultural, literary, linguistic and historical issues of the Middle East. Students will be able to evaluate the significance, quality and veracity of information gathered in the literature and to apply it effectively. Students will also articulate research results clearly and effectively.

Before Graduating Students Must

- Satisfactorily complete IDS 4906 (capping 7-12 credits of thesis research), graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain political, cultural, literary, linguistic and historical issues of the Middle East.

Critical Thinking

2. Evaluate the significance, quality and veracity of information gathered in the literature and apply it effectively.

Communication

3. Articulate research results clearly and effectively in speech and in writing in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
IDS 4906, course 1	I, R, A	I, R, A	I, R, A
IDS 4906, course 2	I, R, A	I, R, A	I, R, A
IDS 4906 is the only required course for this major (or equivalent with other prefixes).			

Assessment Types

- Direct assessment of research in the thesis

Modern European Studies

The interdisciplinary studies major in modern European studies provides knowledge of major European issues. Students will be able to identify and conduct modern Europe-relevant research. They will evaluate the significance, quality and veracity of information gathered in the literature and to apply it effectively. Students will also be able articulate the results of research clearly and effectively.

Before Graduating Students Must

- Satisfactorily complete IDS 4906 (capping 7-12 credits of thesis research), graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, define and explain issues of modern Europe and identify and conduct Europe-relevant research.
2. Integrate different sources and types of knowledge into holistic perspectives about Europe.

Critical Thinking

3. Evaluate the significance, quality and veracity of information gathered in the literature and apply it effectively.

Communication

4. Articulate research results clearly and effectively in speech and in writing in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
IDS 4906, course 1	I, R	I, R	I, R	I, R
IDS 4906, course 2	I, R, A	I, R, A	I, R, A	I, R, A
IDS 4906 is the only required course for this major (or equivalent with other prefixes).				

Assessment Types

- Direct assessment of research in the thesis

Neurobiological Sciences

The interdisciplinary studies major in neurobiological sciences provides students with an understanding of and competence in the neurobiological sciences. Students will understand and use the scientific approach to gather and verify knowledge. They will be able to draw appropriate conclusions and inferences from properly conducted laboratory research. Students will be able to evaluate the significance, quality and veracity of information gathered via experiment and literature and to apply them effectively. Students will also possess the ability to articulate results clearly and effectively.

Before Graduating Students Must

- Satisfactorily complete IDS 4906 (capping 7-12 credits of thesis research), graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and examine neurobiological sciences.
2. Use the scientific approach to gather and verify knowledge.

Critical Thinking

3. Evaluate the significance, quality and veracity of information gathered via experiment and literature and apply them effectively.

Communication

4. Articulate research results clearly and effectively in speech and in writing in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
IDS 4906, course 1 (Taken two or more times)	I, R	I, R	I, R	I, R
IDS 4906, course 2 (Taken two or more times)	I, R, A	I, R, A	I, R, A	I, R, A
IDS 4906 is the only required course for this major (or equivalent with other prefixes).				

Assessment Types

- Direct assessment of research in the thesis

International Relations Certificate

This certificate is for those who are interested in international affairs and who are considering careers in this field (e.g., working for the U.S. government's foreign policy or intelligence agencies; foreign policy think tanks; international non-governmental organizations).

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Additional Information**
- **Related International Studies Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The international relations certificate requires a combined 3.0 GPA for all certificate coursework.

Required Courses

Code	Title	Credits
Core courses in international relations theory		
INR 2001	Introduction to International Relations	3
INR 3603	Theories of International Relations	3
Subfield courses		
Main subfields of international relations courses (3000 level)		9
Advanced subfield course (4000 level)		3
Total Credits		18

While successful completion of this 18-credit program will qualify students for the certificate, most graduate programs, foreign service organizations, and private corporations will be looking for individuals with broader training. Therefore, students are encouraged to pursue related study in other political science fields and other departments. Students interested in U.S. foreign policy, for example, should consider taking courses in American government. Likewise, students interested in international trade or finance would do well to pursue coursework in economics.

In addition, students interested in the international relations of a particular geographical region would benefit from learning about the comparative domestic political systems and/or cultures of those regions and may find courses in comparative politics, geography, anthropology or foreign languages and literatures helpful. Many other opportunities for enrichment through interdisciplinary work are available on campus.

Related International Studies Programs

- Bachelor of Arts in International Studies (p. 810)

International Studies

The international studies interdisciplinary program provides knowledge of major international or global issues including regional and global political economies; comparative cultural and political systems; ethnicity, identity and belief systems; peace, conflict and wars; gender, culture and politics; and environment, health, and science issues.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** Africa | Asia | Europe | Latin America and Caribbean | Middle East
- **Credits for Degree:** 120
- **Additional Information**
- **Related International Studies Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students develop a working knowledge of a modern foreign language, become knowledgeable about at least one major region of the world, become knowledgeable about significant global issues, are encouraged to experience living and studying abroad or working with an international organization focused on international issues, and conduct research on a global issue in conjunction with a senior research seminar, study abroad experience, or relevant internship.

The major prepares students for graduate study or international careers as specialists or representatives in international relations, international publications, cross-cultural training in educational and business fields, public affairs, government foreign service, export sales, and international research.

Coursework for the Major

Students are required to designate a region of the world on which to focus. This region then determines the courses appropriate for the major's primary requirements (Category A) as well as the major's foreign language requirement.

All courses must be completed with minimum grades of C. A minimum of 15 credits of Category A and/or B courses must be completed at UF.

Required Coursework

- INS 3004
- INS 4930
  With prior approval, students may substitute:
  - Study abroad with a research project; internship or work experience abroad with a research project; international studies research poster presentation with research project; international studies-related service learning project with a research paper; or independent study course with a research paper. Students pursuing any of these alternatives must still register for 3 credits of coursework to replace INS 4930. All research papers and projects will be graded by a common grading rubric.
- Category A: 15 credits of international studies-approved courses in social science, humanities or professional courses that focus on the region of the world selected by the student: Africa, Asia, Europe, Latin America and the Caribbean or the Middle East.
  - Twelve credits of Category A coursework must be at the 3000/4000 level.
- Category B: 15 credits of international studies-approved courses in social science, humanities, or professional courses that focus on regions of the world other than the student's regional focus and/or focus on global issues.
  - Nine credits of Category B coursework must be at the 3000/4000 level. *(These 9 credits of 3000/4000-level Category B courses will be accepted toward the CLAS 3000-level elective requirement. INT majors still will need to take 9 additional credits of 3000-level electives from courses NOT approved for any INT category.)*
- Four semesters minimum (0-20 credits) of a single modern foreign language or demonstrated proficiency equivalent to completion of the intermediate level. The language for which proficiency is demonstrated must be logically linked to the selected primary region of focus (Category A).

Region Focus

The links below determine the region courses appropriate for Category A and Category B requirements as well as the region's foreign language requirement.

- Africa (http://intstudies.program.ufl.edu/academic-program/africa)
- Asia (http://intstudies.program.ufl.edu/academic-program/asia)
- Europe (http://intstudies.program.ufl.edu/academic-program/europe)
- Latin America and the Caribbean (http://intstudies.program.ufl.edu/academic-program/latin-america-and-the-caribbean)
- Middle East (http://intstudies.program.ufl.edu/academic-program/middle-east)

Related International Studies Programs

- Bachelor of Arts in Interdisciplinary Studies, Latin American Studies (p.)
- Bachelor of Arts in Interdisciplinary Studies, Middle Eastern Languages and Cultures (p.)
- Bachelor of Arts in Interdisciplinary Studies, Modern European Studies (p.)
- African Studies minor (p. 525)
- Asian Studies minor (p. 557)
- European Union Studies minor (p. 690)
- Health Disparities in Society minor (p. 780)
- International Development and Humanitarian Assistance minor (p. 214)
- Latin American Studies minor (p. 834)
- Nonprofit Organizational Leadership minor (p. 240)
- Public Leadership minor (p. 920)
- Sustainability Studies minor (p. 968)
- International Relations certificate (p. 810)

- Latin American Studies certificate (p. 833)
- Russian and East-European Area Studies certificate (p. 933)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree (p. 514)**.**

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=302001&track=01) may be used for transfer students.

Semester 1

- Complete one international studies course from Category A at the 2000 level or higher with a 2.0 critical-tracking GPA
- 2.0 UF GPA required

Semester 2

- Complete one international studies course from Category B at the 2000 level or higher with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 3

- Complete one foreign language course from the selected region and one additional international studies course from Category B at the 2000 level or higher with a 2.75 critical-tracking GPA
- **Students should take INS 3004 as soon as they have completed three Category courses. For many students, this will be either semester 3 or 4**
- 2.0 UF GPA required

Semester 4

- Complete one additional foreign language course from the selected region with a 3.0 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete INS 3004 and one additional international studies course from Category A at the 3000-level or higher with a 3.0 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

Nine credits of 3000 level or above Category B courses count towards the 3000 level or above electives outside of the major.

Depending upon the international studies courses chosen, students may meet some of their GE-H, GE-S and GE-N requirements through courses for the major. In that case, the student can substitute general elective credit.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Beginning foreign language course (**Critical Tracking**)		3-5
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
International studies course (**Critical Tracking**; Category A, 2000 level or above); recommended:		3
Africa:		
AFS 2002	The African Experience: An Introduction to African Studies (Gen Ed Social and Behavioral Sciences and International)	

HUM 2424	African Cultures and Literatures (Gen Ed Humanities and International)	
Asia:		
REL 2362	Introduction to Islam (Gen Ed Humanities and International)	
Europe:		
EUS 2001	European Experience: a Humanities Perspective (Gen Ed Humanities and International)	
EUS 2003	European Experience: a Social Science Perspective (Gen Ed Social and Behavioral Sciences and International)	
Latin America and the Caribbean:		
LAS 2001	Introduction to Latin American Studies (Gen Ed Humanities and International **or** Social and Behavioral Sciences and International)	
Middle East:		
REL 2362	Introduction to Islam (Gen Ed Humanities and International)	
Science laboratory (Gen Ed Physical or Biological Sciences)		1
	Credits	13-15
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Beginning foreign language course (**Critical Tracking**)		3-5
Gen Ed Biological or Physical Sciences (area **not** taken in semester one)		3
Gen Ed Composition; Writing Requirement		3
International studies course (**Critical Tracking**; Category B, 2000 level or higher)		3
	Credits	15-17
Semester Three		
Gen Ed Biological Sciences		3
State Core Gen Ed Humanities (p. 23)		3
Intermediate foreign language course		3-5
International studies course (**Critical Tracking**; Category B, 2000 level or higher)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15-17
Semester Four		
INS 3004	International Studies Perspectives (**Critical Tracking**)	3
Select one:		3
Gen Ed Humanities (if needed)		
Elective		
Intermediate foreign language course		3-5
Gen Ed Physical Sciences		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15-17
Semester Five		
Elective		3
Select one:		3
Elective		
Gen Ed Social and Behavioral Sciences (if needed)		
International studies course (Category A, 3000 level or above)		3
International studies course (Category B, 3000 level or above)		3
Gen Ed Mathematics		3
	Credits	15
Semester Six		
Elective (3000 level or above, not in major, if needed) [1]		3
International studies course (Category A, 3000 level or above)		3
International studies course (Category B, 3000 level or above)		3
Select one:		6
Study abroad		
Internship		
Electives		
	Credits	15
Semester Seven		
Elective		3
Electives (3000 level or above, not in major, if needed) [1]		6
International studies course (Category A, 3000 level or above)		3
International studies course (Category B, 3000 level or above)		3
	Credits	15

Semester Eight		
INS 4930	Senior Research Seminar in International Studies (Capstone Experience)	3
Select one:		3
Elective		
Gen Ed Social and Behavioral Sciences (if needed)		
Electives		8
International studies course (Category A, 3000 level or higher)		3
	Credits	17
	Total Credits	120

[1] Majors are encouraged to use some of their electives to pursue a minor, combined degree, dual degree or double major.

Academic Learning Compact

The international studies major provides knowledge of major international issues. Students will be able to identify and conduct internationally relevant research. They will evaluate the significance, quality and veracity of information gathered in the literature and to apply it effectively. Students will also be able articulate the results of research clearly and effectively.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe, explain and apply basic knowledge of the modern history, culture, politics, geography, economy or sociology of one major region of the world (Africa, Asia, Europe, Latin America or the Middle East).

Critical Thinking

2. Use analytical intellectual tools to examine global issues.

Communication

3. Interpret and effectively communicate about global issues.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
Category A Courses[1]	R	R	R
Category B Courses[2]	R	R	R
Foreign Language[3]	I, R	I, R	I, R
INS 3004	I	I	I
INS 4930	R, A	R, A	R, A

[1] **Category A**: Students focus on a region of the world, taking 15 credits of approved courses in social science, humanities or professional courses that deal with the region chosen.

[2] **Category B**: Students take 15 credits of approved courses that deal with regions of the world other than the region chosen in Category A.

[3] **Foreign Language**: Students take a minimum of four semesters of a single modern foreign language linked to their focus region, or demonstrate intermediate level-proficiency.

Assessment Types

- Direct assessment of research paper

Italian

Foreign Languages and Literatures

The Italian specialization in Foreign Languages and Literatures provides the linguistic and cultural knowledge students need to understand and appreciate the language, literature, cinema, history, and society of the Italian peninsula. Courses reflect the complex cultural traditions of this Mediterranean nation from the Middle Ages and the Renaissance to the modern period.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Italian Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in Foreign Languages and Literatures (FLL) provides students with a comprehensive knowledge of a specific language (or languages) and advanced familiarity with the cultural practices and traditions associated with the language(s) of specialization. The major in FLL enhances critical thinking and communication skills and provides students with a cross-cultural understanding of our contemporary world. The program allows students the flexibility to explore a single or dual language specialization as well as the opportunity to study culture through interdisciplinary fields of critical concentration, such as Comparative Cultural Studies, Film and Visual Culture, Intensive Area Studies, Literary Studies, and Medieval and Early Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security, communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

The Italian specialization of the Foreign Languages and Literatures major offers a basis for a broad variety of careers including arts and culture, fashion, business, international law, education, diplomacy, international relations, and journalism. The program also constitutes a strong foundation for graduate work in Italian Studies or related fields, allowing students to develop strengths in fields such as film studies, medieval studies, Mafia studies, Modernism, detective fiction, theater studies, Dante studies, and Animal Studies. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

Coursework for the Major

The Italian specialization in Foreign Languages and Literatures consists of preparatory language study at the lower division (1000 and 2000 level), and 33 hours of advanced language, theory, and culture study in the upper division (3000 level and above).

All coursework for the major must be completed with minimum grades of C.

Required Foundation Coursework | 18 Credits

Code	Title	Credits
ITA 1130	Beginning Italian 1	5
ITA 1131	Beginning Italian 2	5
ITA 2220	Intermediate Italian 1	4
ITA 2221	Intermediate Italian 2	4
Total Credits		18

Required Core Coursework | 33 Credits

Code	Title	Credits
Advanced Language and Culture		
ITA 3420	Grammar and Composition 1	3
ITA 3564	Contemporary Italian Culture	3
Advanced Elective Coursework		
Select 18 credits with at least 6 credits at the 4000 level and no more than 6 credits of ITT prefix courses:		18
ITA 3224	Italian Enhancement Section	
ITA 3500	Italian Civilization	
ITA 4905	Individual Work	
ITA 4911	Undergraduate Research in Language or History/Culture in Italian	
ITT 3431	Italy and Pilgrimages	
ITT 3521	Italian Cinema	
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	

ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	
ITT 3930	Special Topics in Italian Literature and Culture	
ITT 4911	Undergraduate Research in Italian in English Translation	
ITW 3100	Introduction to Italian Literature 1	
ITW 3101	Introduction to Italian Literature 2	
ITW 3310	Italian Play	
ITW 3500	Boccaccio's Decameron	
ITW 4026C	Representing the Humble Italy: Literature and Cinema of the Italian South	
ITW 4253	Delitto all'italiana: Crime Fiction and Film in Italy	
ITW 4491	Italian Theater from the Renaissance to the Early Modern Era	
ITW 4526	Mad Love in Modern Italian Literature	
ITW 4580	Animals and Animality in Italian Culture	
ITW 4600	Dante's Inferno	
ITW 4911	Undergraduate Research in Literature in Italian	
Critical Concentration		
Although courses may appear in more than one group, they may be counted toward only one group		
Select 9 credits from one area:		9
Intensive Area Studies: Italian Studies (Recommended for those planning to pursue careers requiring advanced level skills in Italian or graduate work in Italian studies)		
Comparative Cultural Studies		
Film and Visual Culture		
Literary Studies		
Medieval and Early Modern Studies		
Total Credits		33

Overseas Study

Students specializing in Italian are encouraged to participate in a study abroad for a summer or an entire semester. Students regularly participate in UF Programs in Rome or UF-approved study-abroad programs in other Italian cities or regions. Refer to UF International Center (http://www.ufic.ufl.edu/SAS) information and contact a department advisor for study abroad recommendations.

Placement

In all languages, students with either a native background in the language or prior study in that language might be eligible to place out of the preparatory language courses and should meet with the undergraduate coordinator to arrange for placement assessment.

Research

Students with an upper-division GPA of 3.5 are encouraged to write a thesis for high or highest honors at graduation.

Related Italian Programs

- Italian Studies minor (p. 821)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160501&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete ITA 1130 or higher-level Italian Language course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete ITA 1131 or higher-level Italian Language course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete ITA 2220 or a higher-level Italian Language course with a minimum grade of C and a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). 3000 level or above critical concentration courses outside of Italian may count toward the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ITA 1130	Beginning Italian 1 (**Critical Tracking**)	5
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
ITA 1131	Beginning Italian 2 (**Critical Tracking**)	5
Gen Ed Biological or Physical Sciences (area **not** taken in semester one)		3
State Core Gen Ed Mathematics (p. 23)		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
	Credits	15
Semester Three		
ITA 2220	Intermediate Italian 1 (**Critical Tracking**)	4
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
ITA 2221	Intermediate Italian 2	4
Advanced elective (3000 level or above, in the major)		3
Electives (3000 level or above, not in major)		6
Gen Ed Social and Behavioral Sciences and Diversity		3
	Credits	16
Semester Five		
ITA 3420	Grammar and Composition 1	3
Critical concentration course		3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Advanced elective (3000 level or above, in the major)		3
	Credits	15
Semester Six		
ITA 3564	Contemporary Italian Culture (Gen Ed Humanities and International)	3
Advanced elective (3000 level or above, in the major)		3

Elective (3000 level or above, not in major)		3
Electives		5
	Credits	14
Semester Seven		
Critical concentration course		3
Advanced elective (3000 level or above, in the major)		3
Advanced elective (4000 level or above, in the major)		3
Elective (3000 level or above, not in major)		3
Elective or senior thesis option		3
	Credits	15
Semester Eight		
Critical concentration course		3
Advanced elective (4000 level or above, in the major)		3
Electives (3000 level or above, not in major)		6
Elective		3
	Credits	15
	Total Credits	120

Critical Concentration Courses| 9 Credits from One Concentration

Although courses may appear in more than one group they may be counted toward only one group

Code	Title	Credits
Intensive Area Studies: Italian		
Recommended for those planning to pursue careers requiring advanced level skills in Italian or graduate work in Italian studies		
ITA 3224	Italian Enhancement Section	1-5
ITA 3500	Italian Civilization	3
ITT 3431	Italy and Pilgrimages	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
ITW 3100	Introduction to Italian Literature 1	3
ITW 3101	Introduction to Italian Literature 2	3
ITW 3310	Italian Play	3
ITW 3500	Boccaccio's Decameron	3
ITW 4026C	Representing the Humble Italy: Literature and Cinema of the Italian South	3
ITW 4253	Delitto all'italiana: Crime Fiction and Film in Italy	3
ITW 4491	Italian Theater from the Renaissance to the Early Modern Era	3
ITW 4526	Mad Love in Modern Italian Literature	3
ITW 4580	Animals and Animality in Italian Culture	3
ITW 4600	Dante's Inferno	3
Comparative Cultural Studies		
ABT 3500	Arabic Culture	3
ABT 4131	The Qur'an as Literature	3
ARA 3510	The Arab Woman	3
CHI 3403	Chinese Calligraphy	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CZT 3564	Modern Czech Culture and Society	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3003	German Culture and Civilization 1	3
GET 3004	Modern German Culture and Civilization	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
HAI 3930	Haitian Culture and Society	3
HAT 3564	Haitian Culture and Society	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3

ITT 3930	Special Topics in Italian Literature and Culture	3
JMT 3500	Jamaican Creole, Reggae, and Rastafari	3
JPT 3500	Japanese Culture	3
JPT 4502	Japanese Folklore	3
RUT 3443	War and Peace	3
RUT 3500	Russian Cultural Heritage	3
RUT 3501	Contemporary Russian Culture and Society	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3504	Russia Today	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3524	Russia through Film	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 4450	Russian Modernism	3
VTT 3500	Vietnamese Culture	3
YOT 3500	Yoruba Diaspora in the New World	3
Film and Visual Culture		
CHI 4930	Special Topics in Chinese Studies	3
CHT 3391	Chinese Film and Media	4
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	4
FRT 3520	French Cinema	4
FRT 3561	Women in French Literature and/or Cinema	3-4
FRT 4523	European Identities, European Cinemas	4
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
HBR 4930	Special Topics	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPN 4930	Special Topics in Japanese Studies	3
JPT 3391	Introduction to Japanese Film	4
JPT 3702	Japanese Visual Culture	3
PLT 3520	Polish Cinema	4
RUT 3524	Russia through Film	3
SSA 4930	Special Topics in African Studies (African Film)	3
Literary Studies		
ABT 3130	Arabic Literary Heritage 1	3
ABT 4131	The Qur'an as Literature	3
CHI 4930	Special Topics in Chinese Studies	3
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3200	Medieval Literary Culture	3
GET 3501	History, Literature and Arts of Berlin	3
GET 3580	Representations of War in Literature and Visual Media	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
GET 4930	Variable Topics in German Studies	3
HAT 3503	Haitian Culture and Literature in Translation	3
HBR 4930	Special Topics	3
HBT 3223	Identity and Dissent in the Hebrew Short Story	3
HBT 3233	Israeli History and the Contemporary Novel	3
HBT 3563	Women in Modern Hebrew Fiction	3

HBT 3564	Motherhood in Modern Hebrew Literature	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3140	Modern Women Writers	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
PLT 3930	Special Topics in Polish Studies	3
RUT 3101	Russian Masterpieces	3
RUT 3441	Tolstoy and Dostoevsky	3
RUT 3442	Themes from Russian Literature	3
RUT 3443	War and Peace	3
RUT 3452	Russian Literature of the Twentieth Century	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 3930	Variable Topics in Russian Studies	3
RUT 4440	Pushkin and Gogol	3
RUT 4450	Russian Modernism	3
SST 4502	African Oral Literature	3
SSW 3303	Swahili Oral Literature	3
SSW 4713	African Women Writers	3
VTN 4930	Special Topics in Vietnamese Studies	3
YOR 4502	Yoruba Oral Literature	3
Medieval and Early Modern Studies		
ARA 3510	The Arab Woman	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
GET 3200	Medieval Literary Culture	3
ITT 3431	Italy and Pilgrimages	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
MEM 3003	Introduction to the Medieval World	3
MEM 3300	Castles and Cloisters: An Introduction to Medieval Communities	3
MEM 3301	Palaces and Cities: An Introduction to Early Modern Communities	3
MEM 3730	Studies in the Holy Roman Empire	3
MEM 3805	Research Methods in Medieval and Early Modern Studies	1
MEM 3931	Variable Topics in Medieval and Early Modern Studies	3

Academic Learning Compact

The Foreign Languages and Literatures (FLL) major enables students to achieve communicative competence in their language(s) of specialization. Students will become knowledgeable in the culture and literature and/or linguistics associated with their language area(s) such that they will be able to critically analyze and evaluate authentic sources in the target language(s) and formulate independent, critical perspectives in the target language(s). Further, students will learn the intercultural skills and practical know-how necessary to negotiate traveling, studying, and living in the target culture(s).

Before Graduating Students Must

- Satisfy the Florida statutes for the College-Level Academic Skills Requirement.
- Complete requirements for the baccalaureate degree, as determined by faculty.
- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and define cultural concepts, literary production, and/or linguistic structure in language(s) of specialization.

Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I, R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

Italian Studies Minor

An Italian studies minor complements any major in any discipline. A concentration in Italian language, literature, culture, and civilization can also become the basis for graduate studies in Italian.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 19 | Completed with minimum grades of C and no optional S-U
- **Contact:** Email (dambers@ufl.edu)
- **Related Italian Programs**

Of the total credits, no more than three may be Individual Work (ITA 4905). Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
ITA 2221	Intermediate Italian 2	4
ITA or ITW courses (3000/4000 level)		12
ITT course or another 3000/4000-level course from an affiliated department [1]		3
Total Credits		19

1 Consult the Italian Studies program coordinator for course approval.

Related Italian Programs

- Bachelor of Arts in Foreign Languages and Literatures, Italian (p. 815)

Japanese

Foreign Languages and Literatures

The Japanese specialization in foreign languages and literatures develops proficiency in the Japanese language and acquaints students with the literature and cultural history of Japan. Courses are also available for those interested in business Japanese, classical Japanese, film, and women's studies.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related East Asian Languages and Literatures Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in Foreign Languages and Literatures (FLL) provides students with a comprehensive knowledge of a specific language (or languages) and advanced familiarity with the cultural practices and traditions associated with the language(s) of specialization. The major in FLL enhances critical thinking and communication skills and provides students with a cross-cultural understanding of our contemporary world. The program allows students the flexibility to explore a single or dual language specialization as well as the opportunity to study culture through interdisciplinary fields of critical concentration, such as Comparative Cultural Studies, Film and Visual Culture, Intensive Area Studies, Literary Studies, and Medieval and Early Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security, communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

The Japanese specialization of the Foreign Languages and Literatures major provides a foundation for graduate-level work in East Asian studies or allied fields (anthropology, art history, history, linguistics, political science, and religion). The specialization is excellent general preparation for entry to professional schools (business, journalism, law, and medicine) or careers in foreign service, commerce, diplomacy, translation, business, import and export of information and culture, museums, libraries, and tourism.

Coursework for the Major

The Japanese specialization in Foreign Languages and Literatures consists of preparatory language study at the lower division (1000 and 2000 level), and 33 hours of advanced language, theory, and culture study in the upper division (3000 level and above).

All coursework for the major must be completed with minimum grades of C.

Required Foundation Coursework | 23 Credits

Code	Title	Credits
JPN 1130	Beginning Japanese 1	5
JPN 1131	Beginning Japanese 2	5
JPN 2230	Intermediate Japanese 1	5
JPN 2231	Intermediate Japanese 2	5
LIN 3010	Introduction to Linguistics	3
Total Credits		23

Required Core Coursework | 33 Credits

Code	Title	Credits
Advanced Language and Culture		
JPN 3410	Advanced Japanese 1	3
JPN 3411	Advanced Japanese 2	3
JPT 3500	Japanese Culture	3
Advanced Elective Coursework		
Select 15 credits with at least six credits at the 4000 level and at least one course with a JPW prefix:		15
JPN 3440	Business Japanese	

JPN 3730	Language in Japanese Society	
JPN 4415	Japanese Translation: Theory and Practice	
JPN 4850	Structure of Japanese	
JPN 4905	Individual Study	
JPN 4911	Undergraduate Research in Language or Linguistics	
JPN 4930	Special Topics in Japanese Studies	
JPN 4935	Senior Honors Thesis	
JPT 3100	Tales of Kyoto	
JPT 3120	Modern Japanese Fiction in Translation	
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	
JPT 3150	Classical Japanese Poetry	
JPT 3300	Samurai War Tales	
JPT 3330	Early Modern Japanese Literature	
JPT 3391	Introduction to Japanese Film	
JPT 3702	Japanese Visual Culture	
JPT 4130	The Tale of Genji	
JPT 4502	Japanese Folklore	
JPT 4911	Undergraduate Research in English Translation	
JPW 3143	Classical Japanese 1	
JPW 3144	Classical Japanese 2	
JPW 4130	Readings in Japanese Literature	
JPW 4131	Japanese Texts and Contexts	
JPW 4911	Undergraduate Research in Target Language	
Critical Concentration		
Although courses may appear in more than one group they may be counted toward only one group		
Select 9 credits from one area:		9
Intensive Area Studies: Japanese (Recommended for those planning to pursue careers requiring advanced level skills in Japanese or graduate work in Japanese studies)		
Contemporary Cultural Studies		
Film and Visual Culture		
Literary Studies		
Medieval and Early Modern Studies		
Total Credits		33

All languages offered through this department may fulfill college language requirements. Students pursuing the Japanese specialization in Foreign Languages and Literatures are not allowed to minor in Asian studies (either option 1 or 2).

Transfer Students Interested in Majoring in Japanese

If a student's current institution does not offer Japanese and the student has no previous knowledge of Japanese, it's recommended that they take the following Summer Intensive Beginning Japanese program:

Summer A: JPN 1130. A minimum grade C is required to advance to the next level course.

Summer B: JPN 1131.

Overseas Study

Two year-long study abroad programs are available in Japan. The Asian Studies Program at Kansai Gaidai University in Osaka, Japan is specifically designed for international students for an academic year program of study abroad. The program offers courses in Japanese language (all levels) and area studies focusing on Japan and its international role. Another academic year study abroad program at Aoyama Gakuin, Tokyo, offers students the challenge of taking courses in the target language, thus it is limited to those who have completed three years of language study at UF, or the equivalent. These two programs also offer the option of one semester of study abroad.

There is a one or two semester study abroad program at Shimane University in Matsue, Japan. This program focuses on Japanese language, culture, history and environment, and is limited to students who have completed three years of language study at UF, or the equivalent. There is a one or two semester study abroad program at Nagoya University in Nagoya. This program is open to students with no previous study of Japanese language, and is ideal for students from a variety of majors including the STEM majors as it offers a broad-based English-language curriculum in international studies, biological and physical sciences, and engineering, in addition to courses in Japan studies.

A maximum of 15 credits non-UF overseas study credit may apply to the major. Students must have all overseas study credit that will transfer to the major approved by their major advisor. JPT 3500 must be taken at UF. No substitution is allowed for JPT 3500.

Placement

Students with previous training in Japanese, as well as those with heritage background in these languages, should consult the undergraduate coordinator or the language coordinator of the Japanese specialization before enrolling in any JPN or JPW course. Placement tests are given at the start of each semester; refer to the Department of Languages, Literatures and Cultures for location and times.

Related East Asian Languages and Literatures Programs

- East Asian Languages and Literatures minor (p. 676)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160399&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete JPN 1130 or higher level language course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete JPN 1131 or higher level with a minimum grade of C and 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete JPN 2230 or higher level language course with a minimum grade of C and 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Actual courses may be different depending on language preparation and availability of courses. In particular, beginning language is best started semester 1 and no later than semester 3, but study abroad or accredited intensive summer courses can be used to catch up.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). Several courses in this major count for GE-H and N *or* GE-S and N requirements. 3000 level or above critical concentration courses outside of Japanese may count toward the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
JPN 1130	Beginning Japanese 1 (**Critical Tracking**)	5
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14

Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
JPN 1131	Beginning Japanese 2 (**Critical Tracking**)	5
Gen Ed Biological or Physical Sciences (area **not** taken in semester)		3
State Core Gen Ed Mathematics (p. 23)		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
	Credits	15
Semester Three		
JPN 2230	Intermediate Japanese 1 (**Critical Tracking**)	5
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	17
Semester Four		
JPN 2231	Intermediate Japanese 2	5
JPT 3500	Japanese Culture (Gen Ed Humanities and International)	3
Gen Ed Social and Behavioral Sciences and Diversity		3
Advanced elective (3000 level or above; in the major)		3
Elective (3000 level or above; not in major)		3
	Credits	17
Semester Five		
JPN 3410	Advanced Japanese 1	3
LIN 3010	Introduction to Linguistics	3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Advanced elective (3000 level or above; in the major)		3
	Credits	15
Semester Six		
JPN 3411	Advanced Japanese 2	3
Critical concentration course		3
Advanced elective (3000 level or above; in the major)		3
Elective (3000 level or above; not in major)		3
Elective		3
	Credits	15
Semester Seven		
Critical concentration course		3
Advanced elective (4000 level or above; in the major)		3
Electives (3000 level or above; not in major)		6
Elective or senior thesis option		3
	Credits	15
Semester Eight		
Critical concentration course		3
Advanced elective (4000 level or above; in the major)		3
Electives (3000 level or above; not in major)		6
	Credits	12
	Total Credits	120

Critical Concentration Courses | 9 Credits from One Concentration

Although courses may appear in more than one group they may be counted toward only one group

Code	Title	Credits
Intensive Area Studies, Option 1: Japanese		
Recommended for those planning to pursue careers requiring advanced level skills in Japanese or graduate work in Japanese Studies		
JPN 3440	Business Japanese	3
JPN 3730	Language in Japanese Society	3
JPN 4415	Japanese Translation: Theory and Practice	3
JPN 4850	Structure of Japanese	3
JPN 4905	Individual Study	1-3
JPN 4911	Undergraduate Research in Language or Linguistics	0-3
JPN 4930	Special Topics in Japanese Studies	3

JPN 4935	Senior Honors Thesis	3
JPN 4940	Internship	3
JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
JPT 3391	Introduction to Japanese Film	4
JPT 3702	Japanese Visual Culture	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
JPT 4911	Undergraduate Research in English Translation	0-3
JPW 3143	Classical Japanese 1	3
JPW 3144	Classical Japanese 2	3
JPW 4130	Readings in Japanese Literature	3
JPW 4131	Japanese Texts and Contexts	3
JPW 4911	Undergraduate Research in Target Language	0-3
Intensive Area Studies, Option 2: Comparative Studies East Asia		
ASH 3303	Modern Korea: Power and Protest	3
ASH 3442	Modern Japan	3
ASH 4930	History Research Seminar: Asia (Pacific War)	3
CHI 3403	Chinese Calligraphy	3
CHI 3440	Business Chinese	3
CHI 4930	Special Topics in Chinese Studies	3
CHI 4940	Internship	1-6
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4603	Journey to the West	3
REL 3318	Chinese Religions	3
REL 3335	Hindu Sacred Text/Social-Ritual Context	3
REL 3336	Religion in Modern India	3
REL 3344	Chinese Buddhism	3
REL 3938	Special Topics in Religion (Buddhist Meditation)	3
VTT 3500	Vietnamese Culture	3
WST 3415	Transnational Feminism	3
Comparative Cultural Studies		
ABT 3500	Arabic Culture	3
ABT 4131	The Qur'an as Literature	3
ARA 3510	The Arab Woman	3
CHI 3403	Chinese Calligraphy	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CZT 3564	Modern Czech Culture and Society	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3003	German Culture and Civilization 1	3
GET 3004	Modern German Culture and Civilization	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
HAI 3930	Haitian Culture and Society	3
HAT 3564	Haitian Culture and Society	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3500	Japanese Culture	3
JPT 4502	Japanese Folklore	3

RUT 3443	War and Peace	3
RUT 3500	Russian Cultural Heritage	3
RUT 3501	Contemporary Russian Culture and Society	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3504	Russia Today	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3524	Russia through Film	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 4450	Russian Modernism	3
VTT 3500	Vietnamese Culture	3
YOT 3500	Yoruba Diaspora in the New World	3
Film and Visual Culture		
CHI 4930	Special Topics in Chinese Studies	3
CHT 3391	Chinese Film and Media	4
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	4
FRT 3520	French Cinema	4
FRT 3561	Women in French Literature and/or Cinema	3-4
FRT 4523	European Identities, European Cinemas	4
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
HBR 4930	Special Topics	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
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JPN 4930	Special Topics in Japanese Studies	3
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PLT 3520	Polish Cinema	4
RUT 3524	Russia through Film	3
SSA 4930	Special Topics in African Studies (African Film)	3
Literary Studies		
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ABT 4131	The Qur'an as Literature	3
CHI 4930	Special Topics in Chinese Studies	3
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3200	Medieval Literary Culture	3
GET 3501	History, Literature and Arts of Berlin	3
GET 3580	Representations of War in Literature and Visual Media	3
GET 4930	Variable Topics in German Studies	3
HAT 3503	Haitian Culture and Literature in Translation	3
HBR 4930	Special Topics	3
HBT 3223	Identity and Dissent in the Hebrew Short Story	3
HBT 3233	Israeli History and the Contemporary Novel	3
HBT 3563	Women in Modern Hebrew Fiction	3
HBT 3564	Motherhood in Modern Hebrew Literature	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3

JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3140	Modern Women Writers	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
PLT 3930	Special Topics in Polish Studies	3
RUT 3101	Russian Masterpieces	3
RUT 3441	Tolstoy and Dostoevsky	3
RUT 3442	Themes from Russian Literature	3
RUT 3443	War and Peace	3
RUT 3452	Russian Literature of the Twentieth Century	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 3930	Variable Topics in Russian Studies	3
RUT 4440	Pushkin and Gogol	3
RUT 4450	Russian Modernism	3
SST 4502	African Oral Literature	3
SSW 3303	Swahili Oral Literature	3
SSW 4713	African Women Writers	3
VTN 4930	Special Topics in Vietnamese Studies	3
YOR 4502	Yoruba Oral Literature	3
Medieval and Early Modern Studies		
ARA 3510	The Arab Woman	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
GET 3200	Medieval Literary Culture	3
ITT 3431	Italy and Pilgrimages	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
MEM 3003	Introduction to the Medieval World	3
MEM 3300	Castles and Cloisters: An Introduction to Medieval Communities	3
MEM 3301	Palaces and Cities: An Introduction to Early Modern Communities	3
MEM 3730	Studies in the Holy Roman Empire	3
MEM 3805	Research Methods in Medieval and Early Modern Studies	1
MEM 3931	Variable Topics in Medieval and Early Modern Studies	3

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- Complete requirements for the baccalaureate degree, as determined by faculty.
- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

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Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I, R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

Jewish Studies

The Center for Jewish Studies offers a Bachelor of Arts in Jewish studies, a minor, and two certificate programs. A strong interdisciplinary curriculum with a language requirement provides a basis for understanding the broad spectrum of Jewish cultures, languages, and histories.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Jewish or Hebrew Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Center for Jewish Studies fosters the academic study of Jewish cultures, languages, history, society and religion for all students at the University of Florida. Students are expected to develop as critical thinkers, aware of the diversity and complexity of the field. The center promotes a broad and interdisciplinary approach including the arts, social sciences, and textuality. The curriculum emphasizes historical transformations and comparative frameworks among various Jewish communities and with other groups and religions. Courses draw upon a variety of theoretical approaches to the study of class, ethnicity, gender, race, and sexuality with methodologies that are both textual and performance oriented.

The program may serve as preparation for graduate work in Jewish studies, as background for a career in Jewish education or community service or as an area of special interest that will enrich the undergraduate experience. Students often combine the JST major or minor with other majors and go on to careers in law, medicine, journalism, business, or other professions.

Coursework for the Major

The major requires a minimum of 27 credits in Jewish studies and related courses with minimum grades of C. In addition, one year of Hebrew or equivalent language with significant Jewish culture production is required. A minimum of 15 credits for the major must be taken at the University of Florida. Students should consult the undergraduate coordinator in 201 Walker Hall.

Required Coursework

- JST 2930 Introduction to Jewish studies or an introduction to Jewish culture or, Jewish history or a survey course in Jewish studies (3 credits)
- Senior seminar, generally offered every other spring, or an approved equivalent JST course requiring a comprehensive research paper
- Minimum 21 credits at the 3000 level or above

Special topics courses in other departments may be counted toward the major provided they include substantial coverage of material relevant to Jewish studies. Individual work (JST 4905), which also fulfills requirements for the major, is also available for independent study and special projects. No more than six credits of independent study (JST 4905) will be counted toward the minimum. Normally, no more than 12 credits of the minimum may be transfer credit; however, all transfer credits in JST-related courses from UF-approved programs abroad will apply toward the major.

Course Details

Most JST courses are listed in the schedule of courses under Jewish Studies. Related courses offered by other departments are listed in departments of Anthropology, English, History, Languages, Literatures and Cultures, Political Science, Religion, and Sociology. A list of courses is available in the center each semester before advance registration.
More Info (https://jst.ufl.edu/major-minor)

Specializations

- European Jewish Studies
- Holocaust Studies
- Israel Studies

Honors

Honors in Jewish studies can be earned by students who have at least a 3.5 GPA in their upper-division work and a 3.5 GPA in the major. Students who seek honors are required to complete an honors project, with a grade of A or B, under the guidance of a Jewish studies faculty member. In their senior year, honors students should register for JST 4970, a 2-3 credit course.

Internship in Jewish Communal Services

Students can gain practical experience as an undergraduate through the internship option of JST 4940. The goal of this program is both to expose the student to the opportunities for service in the world of organized Jewry and to provide a means for students to understand how Jewish values are propagated in organized settings. Students earn credit for volunteer work and training in applied settings such as Jewish family and social services agencies, community centers, federations, educational institutions, museums, newspapers, denominational organizations, public affairs groups, synagogues, Hillel or equivalent institutions. To qualify for JST credit, the organization must have an explicit public tie to Judaism and be approved for internship credit by the Center for Jewish Studies.

Overseas Study

The Center for Jewish Studies provides counsel regarding study abroad at the Hebrew University of Jerusalem, Tel Aviv University, Haifa University, and Ben-Gurion University of the Negev. The overseas programs at these Israeli universities offer summer, one semester and full-year courses of study. Information is available in 201 Walker Hall and at the UF International Center, 170 Hub.

Scholarships are available. Travel restriction updates are available on the department website.

Related Jewish or Hebrew Programs

- Bachelor of Arts in Foreign Languages and Literatures, Hebrew (p. 782)
- Bachelor of Arts in Interdisciplinary Studies, Middle Eastern Languages and Cultures (p. 799)
- Hebrew minor (p. 787)
- Jewish Studies minor (p. 833)
- European Jewish Studies certificate (p. 688)
- Holocaust Studies certificate (p. 798)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=380206&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete HBR 1130
- 2.0 UF GPA required

Semester 4

- Complete HBR 1131 and one Jewish studies course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
HBR 1130	Beginning Modern Hebrew 1 (**Critical Tracking**)	5
JST 2930	Special Topics in Jewish Studies (**Critical Tracking**; Gen Ed Humanities and International)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	14
Semester Two		
HBR 1131	Beginning Modern Hebrew 2 (**Critical Tracking**)	5
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Jewish studies elective		3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	17
Semester Three		
State Core Gen Ed Humanities (p. 23)		3
Jewish studies electives		6
Gen Ed Mathematics		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Four		
Gen Ed Biological or Physical Sciences (area **not** taken in semester two)		3
Electives		7
Gen Ed Social and Behavioral Sciences		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
	Credits	14
Semester Five		
Gen Ed Composition; Writing Requirement		3
Elective		3
Jewish studies electives		6

Gen Ed Physical Sciences		3
	Credits	15
Semester Six		
Gen Ed Biological Sciences		3
Electives (3000 level or above, not in major)		6
Jewish studies electives		6
	Credits	15
Semester Seven		
Electives		6
Electives (3000 level or above, not in major)		6
Jewish studies elective (Gen Ed Humanities)		3
	Credits	15
Semester Eight		
JST 4970	Senior Honors Thesis (optional; or elective)	3
Elective		3
Electives (3000 level or above; not in major)		6
Jewish studies elective		3
	Credits	15
	Total Credits	120

Academic Learning Compact

This major familiarizes students with the aspects of Jewish history, religion, languages and cultures. Emphasis is placed on basic language acquisition, analysis and critical evaluation of texts and contexts, integration of cultural data with disciplinary concerns outside of Jewish studies and comparative frameworks among different Jewish groups and with co-territorial non-Jews.

Before Graduating Students Must

- Satisfactory evaluation of paper written for the CJS capstone course, graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate knowledge of and competence in the Jewish experience, including minority and diasporic communities within a comparative framework.
2. Demonstrate knowledge of transformations of Jewish communities over time and space.

Critical Thinking

3. Understand the significance of language in assessing Jewish culture(s).
4. Evaluate and apply effectively the significance, quality and veracity of information (both primary and secondary) in the literature.

Communication

5. Articulate research results clearly and effectively in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
Courses are taken multiple times with changes in topic.					
JST 2930 Introduction to Jewish Studies	I	I	I	I	
JST 3930 Holocaust Studies	R	R	R	R	R
JST 3930 Modern European Jewish History	R	R	R	R	R

JST 3930 Jewish History	R	R	R	R	R
JST 3930 Secular Jewish Culture	R	R	R	R	R
JST 4936 Judaism and Politics	A	A	A	A	A
JST 4936 Israeli Society	A	A	A	A	A

Assessment Types

- Direct assessment of essays and final tests (by track: Holocaust studies, Israel studies, general studies)

Jewish Studies Minor

The Center for Jewish Studies offers a minor with similar parameters to the major though with fewer credit requirements. Students are also encouraged to pursue one of two existing certificate programs that dovetail with disciplinary interests beyond Jewish studies.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 25 | Completed with minimum grades of C
- **Contact:** Email (center@jst.ufl.edu) | 201 Walker Hall (http://campusmap.ufl.edu/?loc=0003) | 352.392.9247
- **Related Jewish or Hebrew Programs**

Students should plan the minor under the guidance of a Jewish studies faculty member. Each program must be approved by the director of the Center for Jewish Studies.

At least three courses (none can be individual work) of no fewer than three credits each must be at the 3000 level or above. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
HBR 1130	Beginning Modern Hebrew 1	5
HBR 1131	Beginning Modern Hebrew 2	5
JST 2930	Special Topics in Jewish Studies (Introduction to Jewish Studies or equivalent)	3
Jewish studies or related courses [1]		12
Total Credits		25

[1] Center for Jewish Studies (https://jst.ufl.edu/major-minor)

Related Jewish or Hebrew Programs

- Bachelor of Arts in Foreign Languages and Literatures, Hebrew (p. 782)
- Bachelor of Arts in Jewish Studies (p. 829)
- Bachelor of Arts in Interdisciplinary Studies, Middle Eastern Languages and Cultures (p. 799)
- Hebrew minor (p. 787)
- European Jewish Studies certificate (p. 688)
- Holocaust Studies certificate (p. 798)

Latin American Studies Certificate

The Center for Latin American Studies, in cooperation with the colleges of Liberal Arts and Sciences, Agricultural and Life Sciences, Business, Design, Construction and Planning, Education, Fine Arts, and Journalism and Communications, offers a certificate in Latin American studies for undergraduate students. Through special arrangements, students in other colleges also may obtain the certificate.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 21 | Completed with minimum grades of C

- **Contact:** Email (nochoa@latam.ufl.edu) | 318 Grinter Hall (http://campusmap.ufl.edu/?loc=0002) | 352.273.4715
- **Additional Information**
- **Related Latin American Studies Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The program is designed to supplement a major with broad cultural and language training appropriate for graduate work or a Latin America-related career in business, government or teaching. In general, it is for students who plan to live in Latin America, work with Latin Americans, or interpret Latin American culture to others.

Required Courses

21 credits with Latin American content, distributed as follows:

- Three credits of LAS 4935, the undergraduate seminar in Latin American studies. Students may repeat LAS 4935 for an additional six credits if the topics vary.
- Six credits of courses outside the student's major with 100% Latin American content (designated by a C in the LAS course guide). More Info (http://www.latam.ufl.edu/academics/latin-american-studies-courses)
- Twelve credits of additional courses with Latin American content, including courses in the student's major; at least three credits must be core courses (with 100% Latin American content, designated by a C in the LAS course guide); up to nine credits may be electives with at least 25% Latin American content (designated by an E in the LAS course guide).
- Only courses at 2000 level or above will count toward the certificate. Advanced Placement credits do not count. Overseas study credits can count as core or elective courses pending review of the undergraduate advisor at the Center for Latin American Studies.

In addition, the student must demonstrate high-intermediate proficiency in a Latin American language through coursework (Spanish, SPN 2240; Portuguese, POR 3242; Haitian Creole, HAI 2200) or examination (Advanced Placement scores of 4-5 plus approval or an SAT 2 score of 700). Language courses at the 3000 level can count as core courses.

Students with prior knowledge of a Latin American or Caribbean language must demonstrate proficiency through a written placement test (SAT 2 test for Spanish) or oral examination for speakers of Portuguese or Haitian Creole. Courses in a second Latin American language at or above the 3000 level may count toward the certificate if these courses are not used to meet the language requirement.

Related Latin American Studies Programs

- Bachelor of Arts in Interdisciplinary Studies, Latin American (p. 799)
- Latin American Studies minor (p. 834)

Latin American Studies Minor

The Latin American studies minor is an excellent option for those who wish to concentrate their work in a specific discipline yet maintain a Latin American focus in their coursework. Students can take courses with Latin American content in the fields of anthropology, economics, politics, geography, history, mass communication, music, women's studies, and more. Students who pursue the minor will enhance their career prospects through their knowledge of Latin American languages and cultures.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C and no optional S-U
- **Contact:** Email (rresende@latam.ufl.edu) | 318 Grinter Hall (http://campusmap.ufl.edu/?loc=0002) | 352.273.4715
- **Additional Information**
- **Related Latin American Studies Programs**

Only courses at the 2000 level or above will count toward the minor. In addition, students must earn nine credits at the 3000 level or above, in addition to the Seminar Requirement. Exam credits (AICE/AP/CLEP/IB) do not count toward the minor. Overseas study credits can count as core or elective courses if approved by the undergraduate advisor in the Center for Latin American Studies.

Of the total credits, no more than three may be individual work. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
LAS 4935	Latin American Area Seminar [1]	3
Approved courses with 100% Latin American or Caribbean content [2, 3]		9
Approved course with 25% Latin American or Caribbean content [3]		3
High-Intermediate Language Proficiency		
Select one:		
SPN 2240	Intensive Communication Skills	
POR 3242	Oral and Written Practice	
HAI 2200	Intermediate Haitian Creole 1	
Language courses in Spanish, Portuguese or Haitian Creole (3000 level) [4]		
Proficiency through written or oral examination [5]		
Total Credits		15

1. LAS 6938 may be substituted with the approvals of the instructor and undergraduate coordinator.
2. A student may take LAS 4935 up to three times if the subject matter varies. The first Seminar will count toward the Seminar requirement, the second and third may count toward the Approved courses with 100% Latin American or Caribbean content.
3. As listed in the Latin American Studies course guide (http://www.latam.ufl.edu/academics/latin-american-studies-courses).
4. Language courses above the 3000 level can count toward the minor if they are not used to meet the language requirement.
5. Students with prior knowledge of a Latin American or Caribbean language must demonstrate proficiency through a written placement test (SAT II for Spanish) or oral examination for speakers of Portuguese or Haitian Créole.

Candidates for the minor are encouraged to spend a summer, a semester or an academic year studying in a Latin American country. UF sponsors study abroad programs in Argentina, Brazil, Costa Rica, Chile, Dominican Republic, Guatemala, Mexico, Panama, and Peru. For more information, contact Study Abroad Services in the UF International Center (https://internationalcenter.ufl.edu/study-abroad).

Related Latin American Studies Programs

- Bachelor of Arts in Interdisciplinary Studies, Latin American (p. 799)
- Latin American Studies certificate (p. 833)

Legal History

This historical exploration introduces the ways in which law influences society and the ways in which society influences law. The certificate considers how law works around the world by studying legal histories outside of the U.S.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 9 | Completed with minimum grades of C
- **Related History Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The certificate is open to non-majors while majors may obtain a specialization in legal history. Students minoring in history are eligible for the certificate so long as none of their certificate courses are counted towards their minor.

Required Courses

Code	Title	Credits
Group A course		*3*
AMH 3551	Constitutional History of the United States to 1877	
AMH 3552	Constitutional History of the United States Since 1877	
AMH 3558	United States Legal History	
AMH 4319	Crime and Punishment in American History	
AMH 4550	Origins of the U.S. Constitution	
Group B course		*3*
EUH/LAH 3931	Special Topics in European History (Inquisitions)	
EUH 3931	Special Topics in European History (The Holocaust in the Courtroom)	
LAH 3931	Special Topics in Latin American History (Crime and Criminality in the Americas)	
WOH 3205	History of Human Rights	

Group A or Group B course [1]	*3*
Total Credits	9

In addition to these courses, the undergraduate coordinator may authorize substitute courses.

[1] Course not previously taken.

Related History Programs

- Bachelor of Arts in History (p. 793)
- History minor (p. 797)

Linguistics

Linguistics studies language in many domains and from multiple perspectives. The core courses analyze speech sounds, words, and the structure of language(s).

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Linguistics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The discipline also covers old and new languages, speech in ordinary conversation, the workplace, and the classroom. Child acquisition of languages and adult acquisition of a second language are important topics. Linguists also study language in relation to gender, the brain and computers, and the interrelationship of languages and dialects.

Linguists analyze and contribute to mass communication, they testify about language meaning and use in the courtroom, and they analyze natural language processing. Their expertise helps all people communicate more effectively: patients and doctors, spouses and partners, students and teachers. Linguists also teach non-native speakers to speak, read, write, and comprehend English and other languages.

Coursework for the Major

Students must earn minimum grades of C within two attempts in a minimum of 33 credits.

Required Coursework

Code	Title	Credits
LIN 3010	Introduction to Linguistics	3
LIN 3201	The Sounds of Human Language	3
LIN 3460	The Structure of Human Language	3
Select 15 credits from linguistics electives (3000/4000 level)		15
Select 9 credits from approved electives from a combination of the following options:		9
Additional Linguistics electives at the 3000/4000-level		
Linguistics electives offered by other departments		
Language-related courses OR a two-semester sequence of a non-Romance or non-Germanic language [1]		
Total Credits		33

[1] Up to 6 of the 9 credits may come from language-related courses OR a two-semester sequence of a non-Romance or non-Germanic language. (No more than six 6 language credits will apply to the major.)

Consult the undergraduate coordinator or program director for emphasis areas and electives. Courses must be completed at UF; if taken at another accredited university, they must be approved by the department.

Required Core Courses | 9 Credits

Code	Title	Credits
LIN 3010	Introduction to Linguistics	3
LIN 3201	The Sounds of Human Language	3
LIN 3460	The Structure of Human Language	3

Linguistics Electives | 15-24 Credits

Code	Title	Credits
LIN 3680	Modern English Structure	3
LIN 4205	Fundamentals of Phonetics	3
LIN 4320	Introduction to Phonology	3
LIN 4400	Introduction to Morphology	3
LIN 4500	Introduction to Syntax	3
LIN 4600	Survey of Sociolinguistics	3
LIN 4656	Gender and Language	3
LIN 4701	Psycholinguistics	3
LIN 4702C	Methods in Psycholinguistics	3
LIN 4721	Second Language Acquisition	3
LIN 4784	Writing Systems	3
LIN 4790	Brain and Language	3
LIN 4803	Introduction to Semantics	3
LIN 4820	Meaning and Use	3
LIN 4850	Formal Semantics	3
LIN 4905	Individual Study in Linguistics	3
LIN 4930	Special Topics in Linguistics	3-9
LIN 4970	Senior Thesis	3
TSL 3360	Introduction to Teaching English as a Second Language	3
TSL 3378	Pronunciation for Teaching English as a Second Language	3

Linguistics Electives Offered by Other Departments | Up to 9 Credits

Code	Title	Credits
ARA 4850	Structure of Standard Arabic (LLC)	3
ARA 4822	Arabic Sociolinguistics	3
ARA 4930	Special Topics (LLC, with LIN approval)	3
COM 4706	Language and Power	3
FRE 4780	Introduction to French Phonetics and Phonology (LLC)	3
FRE 4822	Sociolinguistics of French (LLC)	3
FRE 4850	Introduction to the Structure of French (LLC)	3
GEW 4930	Seminar in Germanic Languages and Literatures (LLC, with LIN approval)	3
HAT 3700	Introduction to Haitian Creole Linguistics (LLC)	3
JPN 3730	Language in Japanese Society (LLC)	3
JPN 4850	Structure of Japanese (LLC)	3
RUS 4700	Structure of the Russian Language (LLC)	3
SPN 4780	Spanish Phonetics (S and P)	3
SPN 4822	Sociolinguistics of the Spanish-Speaking World (S and P)	3
SPN 4830	Introduction to Spanish and Spanish American Dialectology (S and P)	3
SPN 4840	Introduction to the History of the Spanish Language (S and P)	3
SPN 4850	Introduction to the Structure of Spanish (S and P)	3
SPN 4930	Revolving Topics in Linguistics and Culture (S and P, with LIN approval)	3
SSA 3730	Language in African Society (LLC)	3

Language-Related or Foreign Language Courses

Up to 6 Credits May Apply to Electives

Code	Title	Credits
Select up to 6 credits of one of the following:		6
Language-Related Courses		
ANT 3620	Language and Culture (ANT)	
DEP 3053	Developmental Psychology (PSY)	
DEP 4163	Cognitive Development (PSY)	
DEP 4930	Revolving Topics in Developmental Psychology (Psychology of Language Development) (PSY)	
EXP 3604	Cognitive Psychology (PSY)	
PHI 4220	Philosophy of Language (PPY)	
SPA 3011	Speech Acoustics (SLHS)	
SPA 3032	Fundamentals of Hearing (SLHS)	
SPA 4004	Language Development (SLHS)	
SPA 4104	Neural Basis of Communication (SLHS)	

SPC 3331	Nonverbal Communication (W and O)
SPC 4425	Small Group Communication (W and O)
SPC 4710	Patterns of Intercultural Communication (W and O)
OR	
Foreign Language Courses	
A two-semester sequence of a non-Romance/non-Germanic language. [1]	

[1] Students must complete two consecutive semesters of the same language for the courses to count towards the major. Appropriate languages include: Akan, American Sign Language, Amharic, Arabic, Czech, Chinese, Greek, Hebrew, Hindi, Hungarian, Japanese, Korean, Lingala, Polish, Russian, Swahili, Turkish, Vietnamese, Wolof, Xhosa, and Yoruba.

Combined Degree Program

Linguistics offers a combined-degree program that allows students to obtain a B.A. and an M.A. in five years.
More Info (http://lin.ufl.edu/undergraduate)

Students enroll in four graduate courses in their senior year that count toward both the B.A. and M.A. degrees:

Code	Title	Credits
LIN 6084	Intro Grad Research	3
LIN 6323	Phonology 1	3
LIN 6402	Morphology 1	3
LIN 6501	Syntax 1	3

Students need to apply by February 15 of the spring semester of their junior year.

Course Details

Linguistics offers a variety of courses and students are free to pick any combination. Suggested specializations within the major include:

- Theoretical linguistics, covering the theory of sounds (phonology), word structure (morphology), sentences (syntax), and meaning (semantics):

Code	Title	Credits
LIN 4320	Introduction to Phonology	3
LIN 4400	Introduction to Morphology	3
LIN 4500	Introduction to Syntax	3
LIN 4803	Introduction to Semantics	3
LIN 4850	Formal Semantics	3

- Human language processing, dealing with how language is processed in the mind and brain:

Code	Title	Credits
LIN 4701	Psycholinguistics	3
LIN 4205	Fundamentals of Phonetics	3
LIN 4702C	Methods in Psycholinguistics	3
LIN 4790	Brain and Language	3

- Sociolinguistics, dealing with how language works in society:

Code	Title	Credits
LIN 4600	Survey of Sociolinguistics	3
LIN 4656	Gender and Language	3

Overseas Studies

Some study abroad programs that offer linguistics courses are the University of Mannheim (Germany), University of Haifa (Israel), University of Madrid (Spain), and the University of Utrecht (The Netherlands). For more information and programs, contact the linguistics undergraduate advisor.

Relevant Minors and/or Certificates

More Info (http://lin.ufl.edu/undergraduate/minor)

Linguistics students may want to consider a minor (p. 969) or certificate (p. 969) in Teaching English as a Second Language.

Research

More Info (http://lin.ufl.edu/undergraduate/major)

Students are encouraged to engage in individual study with a faculty member or to volunteer in a laboratory.

Related Linguistics Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Linguistics minor (p. 841)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160102&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete 1 foreign language or linguistics course (LIN 3010 recommended) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 4

- Complete 1 additional foreign language or linguistics course with a 2.75 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete LIN 3010 and maintain a 2.75 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

3000 level or above approved Language Related Courses may apply towards the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Foreign language (**Critical Tracking**; non-romance or non-Germanic recommended)		4-5
State Core Gen Ed Mathematics, pure math (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	13-14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Electives		7
Foreign language (**Critical Tracking**; non-romance or non-Germanic recommended)		3-5
	Credits	16-18

Semester Three		
LIN 3010	Introduction to Linguistics (**Critical Tracking**; Gen Ed Humanities)	3
Electives or non-romance or non-Germanic foreign language if 4-3-3 option		6
Gen Ed Biological or Physical Sciences (area **not** taken in semester two)		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Elective		3
Select one Gen Ed Mathematics course:		3
PHI 2100	Logic	
PHI 3130	Symbolic Logic	
STA 2023	Introduction to Statistics 1	
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
LIN 3201	The Sounds of Human Language	3
or LIN 3460	or The Structure of Human Language	
Electives (3000 level, outside of linguistics)		9
Linguistics or linguistics-related course (3000 level or above)		3
	Credits	15
Semester Six		
LIN 3201	The Sounds of Human Language	3
or LIN 3460	or The Structure of Human Language	
Elective (3000 level, outside of linguistics)		3
State Core Gen Ed Humanities (p. 23)		3
Linguistics or linguistics-related course (3000 level or above)		3
Gen Ed Physical Sciences		3
	Credits	15
Semester Seven		
Electives (3000 level, outside of linguistics)		6
Linguistics course (3000 level or above)		3
Linguistics courses (3000 level or above, 4000 level recommended)		6
	Credits	15
Semester Eight		
Electives		6
Linguistics courses (3000 level or above, 4000 level recommended)		9
	Credits	15
	Total Credits	120

Academic Learning Compact

The Bachelor of Arts in linguistics provides students with the ability to analyze language structure and use on multiple levels and to apply knowledge, concepts and skills developed from previous research. The major emphasizes students' ability to analyze patterns in language in terms of the sound system (phonetics and phonology) and word and sentence structure (morphology and syntax), to present and justify these analyses and to apply linguistic knowledge and analytical skills to the study of language use, learning, teaching, processing and change.

Before Graduating Students Must

- Achieve a minimum grade of C on the critical assignment from LIN 3201, graded according to department rubric.
- Achieve a minimum grade of C on critical assignments from LIN 3460, graded according to department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the concepts related to phonetics and phonology (sounds and sound systems).
2. Examine and explain the concepts related to morphology and syntax (word and sentence structures).

Critical Thinking

3. Analyze linguistic data by applying concepts and knowledge from phonetics and phonology.
4. Analyze linguistic data by applying concepts and knowledge from morphology and syntax.

Communication

5. Articulate research results clearly and effectively in an accepted style of presentation.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
LIN 3010	I, R	I, R	I, R	I, R	I, R
LIN 3201	R, A		R, A		R, A
LIN 3460		R, A		R, A	R, A

Assessment Types

- Exams
- Language project

Linguistics Minor

Language is a means of communication and a unique property of the human mind. Linguistics is the scientific study of language: a set of disciplines that investigates the structure, meaning, and use of language using descriptive, theoretical, computational, and experimental approaches.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Linguistics Programs**

To be eligible for this minor, students must have a minimum 2.75 overall GPA.

Of the total credits, no more than three may be individual work. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
LIN 3010	Introduction to Linguistics	3
LIN 3201	The Sounds of Human Language	3
LIN 3460	The Structure of Human Language	3
Select one:		6
Two LIN courses (4000 level)		
One LIN course (4000 level) AND one non-Germanic/non-Romance language course		
Total Credits		15

Related Linguistics Programs

- Bachelor of Arts in Linguistics (p. 836)

Marine Sciences | CLAS

Oceans are an important facet of our global environment: covering more than 70 percent of the Earth's surface, oceans provide us with food, transport, and resources and they play a significant role in controlling climate. However, the world's oceans remain largely unexplored below the surface, making them one of the last great frontiers for scientific discovery. Marine environments are inherently dynamic and governed by a broad suite of interactive biological, chemical, and physical processes.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Related Marine Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The university promotes an interdisciplinary approach to marine science education and research to prepare students for rewarding academic and professional careers. This interdisciplinary studies major, offered cooperatively with the College of Agricultural and Life Sciences, lets students tailor a curriculum that suits their interests and career goals.

The curriculum provides the core scientific and quantitative skills necessary for success. Lower-division courses build a strong foundation in basic sciences and math while upper-division courses provide opportunity for specialization. Students in the College of Liberal Arts and Sciences (CLAS) complete an upper-division core that integrates the physical and biological sciences, mathematics, and engineering. They work closely with a faculty advisor to create an individualized curriculum of at least 12 credits of approved electives; this plan must be approved by the program's undergraduate coordinator before the student has earned 70 credits.

Coursework for the Major

The major requires 63-67 credits of coursework completed with minimum grades of C. At least 30 credits of coursework in the major must be completed at UF.

Required Coursework

Code	Title	Credits
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	4
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	4
GLY 3083C	Fundamentals of Marine Sciences	3
GLY 4726	Geochemical Oceanography	3
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312 or STA 2023	Analytic Geometry and Calculus 2 Introduction to Statistics 1	3-4
OCE 1001	Introduction to Oceanography	3
Select one:		8-10
Option One		
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1	
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2	
Option Two		
PHY 2048 & 2048L	Physics with Calculus 1 and Laboratory for Physics with Calculus 1	
PHY 2049 & 2049L	Physics with Calculus 2 and Laboratory for Physics with Calculus 2	
ZOO 4403C	Marine Biology	4
ZOO 4926 or FAS 4270	Special Topics in Zoology (Marine Ecology) Marine Ecological Processes	3
Marine sciences core elective		3-4

Approved marine sciences electives [1]	12
Total Credits	62-66

[1] 12 credits of approved marine sciences electives, approved by the undergraduate coordinator before the student has earned 70 credits. Electives may be chosen from the Approved Electives tab.

Related Marine Sciences Programs

- Bachelor of Science in Marine Sciences: Interdisciplinary Studies, CALS (p. 218)
- Fisheries and Aquatic Sciences minor (p. 142)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

For the purposes of critical-tracking, associated lecture and lab courses are considered one critical-tracking course (e.g., BSC 2010/BSC 2010L = 1 critical-tracking course).

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=309999&track=01) may be used for transfer students.

Semester 1

- Complete OCE 1001 and 1 critical-tracking course from BSC 2010/BSC 2010L, BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2311, PHY 2053/PHY 2053L (or PHY 2048/PHY 2048L), PHY 2054/PHY 2054L (or PHY 2049/PHY 2049L)
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**)	
MAC 1147	Precalculus Algebra and Trigonometry (State Core Gen Ed Mathematics (p. 23)) [1]	
OCE 1001	Introduction to Oceanography (**Critical Tracking**; Gen Ed Physical Sciences)	3
	Credits	14
Semester Two		
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	
Select one:		3-4
Elective		
MAC 2311	Analytic Geometry and Calculus 1 (if needed)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16-17
Semester Three		
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	
GLY 3083C	Fundamentals of Marine Sciences (Gen Ed Physical Sciences)	3
Select one:		3-4
MAC 2312	Analytic Geometry and Calculus 2	
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	
Elective (3000 level or above, not in major)		3
Gen Ed Humanities		3
	Credits	16-17
Semester Four		
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	
Select one:		4-5
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1 (**Critical Tracking**)	
Elective (3000 level or above, not in major)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	14-15
Semester Five		
Select one:		4-5
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2 (**Critical Tracking**)	
ZOO 4926	Special Topics in Zoology (Marine Ecology)	3
or FAS 4270	or Marine Ecological Processes	
Elective		3
Foreign language		5
	Credits	15-16
Semester Six		
GLY 4726	Geochemical Oceanography	3
ZOO 4403C	Marine Biology	4
Gen Ed Composition; Writing Requirement		3

Foreign language		5
	Credits	15
Semester Seven		
Approved elective		3
Electives (3000 level or above, not in major)		6
Marine sciences core elective		3-4
Gen Ed Social and Behavioral Sciences		3
	Credits	15-16
Semester Eight		
Approved electives		9
Elective		3
Elective (3000 level or above, not in major)		3
	Credits	15
	Total Credits	120

[1] Select MAC 1147 if needed.

Approved Electives

Marine Sciences Core Elective

Code	Title	Credits
Select one:		3-4
GLY 2010C	Physical Geology (Gen Ed Physical Sciences)	
GLY 2100C	Historical Geology (Gen Ed Physical Sciences)	
GLY 3074	Oceans and Global Climate Change (Gen Ed Physical Sciences) [1]	
GLY 3105C	Evolution of Earth and Life (Gen Ed Physical Sciences) [1]	
GLY 3202C	Earth Materials [1]	
EGN 4932	Special Topics (Physical Oceanography) [1]	

[1] These courses cannot count as marine sciences core electives and approved electives.

Approved Marine Sciences Electives

Code	Title	Credits
Select 12 credits (minimum):		12
EGN 4932	Special Topics (Physical Oceanography) [1]	
ESC 3075	Deltas and Humans	
FAS 4202C	Biology of Fishes	
FAS 4305C	Introduction to Fishery Science	
FAS 4405	Aquariums, Water and Aquaculture	
FAS 4932	Topics in Fisheries and Aquatic Sciences (Marine Adaptations)	
GLY 3074	Oceans and Global Climate Change (Gen Ed Physical Sciences) [1]	
GLY 3105C	Evolution of Earth and Life (Gen Ed Physical Sciences) [1]	
GLY 3202C	Earth Materials [1]	
GLY 3603C	Paleontology	
GLY 4450	Geophysics	
GLY 4552C	Sedimentary Geology	
GLY 4734	Coastal Morphology and Processes	
GLY 4930	Special Topics in Geology (Deltas and Humans)	
GLY 4930	Special Topics in Geology (Estuarine Systems)	
OCE 3016	Introduction to Coastal and Oceanographic Engineering	
ZOO 4205C	Invertebrate Biodiversity	

[1] These courses cannot count as marine sciences core electives and approved electives.

Additional Electives | With Instructor Permission

Code	Title	Credits
EOC 6196	Littoral Processes	3
EOC 6934	Adv Topics Coast and Oc	3
FAS 5276C	Fld Ecol Aquat Organ	4
GLY 5255	Organc Geochem/Geobio	3
FAS 6171	Applied Phycology	3

GLY 5558C	Sedimentology	3
GLY 5736	Marine Geology	3
GLY 5786L	Topics Field Geol (Bahamas)	2
GLY 6075	Glob Climate Change	3
GLY 6425	Tectonics	3
GLY6726	Chemical Biomarkers in Aquatic Ecosystems (instructor permission required).	
GLY 6932	Special Topics (Chemical Biomarkers in Aquatic Ecosystems)	3
OCP 6050	Physical Oceanography	3
OCP 6168	Data Analysis Techniq	3
OCP 6295	Estuar/Shelf Hydro 1	3
ZOO 4926	Special Topics in Zoology (Biology of Sea Turtles)	1-4
ZOO 6456C	Ichthyology	4

Academic Learning Compact

This interdisciplinary studies major provides integrative understanding of the basic concepts, theories and observational findings related to marine materials and processes, geologic time, the diversity of marine life, the structure and function of marine organisms and ecosystems and marine resource management.

The marine sciences major is administered jointly by the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences and utilizes faculty, courses and resources of the Fisheries and Aquatic Sciences Program (CALS), the Department of Geological Sciences (CLAS), the Department of Biology (CLAS), and the Department of Civil and Coastal Engineering (Herbert Wertheim College of Engineering).

Before Graduating Students Must

- Achieve a passing score on the subject test. The content of the examination has been reviewed and approved by the Marine Sciences Committee.
- Achieve a passing score on the analytical skills test. The content of the examination has been reviewed and approved by the Marine Sciences Committee.
- Achieve a passing score on the bioethics quiz. The content of the examination has been reviewed and approved by the Marine Sciences Committee.
- Achieve a passing score on the scientific literacy paper. This paper is assessed using a rubric that has been reviewed and approved by the Marine Sciences Committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate competence in the basic terminology, concepts, methodologies and theories used within the marine sciences.

Critical Thinking

2. Analyze information in the marine sciences and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly, effectively and objectively in written or oral forms appropriate to the marine sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
GLY 3083C	I	I	I	I
GLY 4930	R	R	R	R
OCE 1001	I		I	I
ZOO 4403C	R	R	R	R
ZOO 4926 (Marine Ecology) or FAS 4932 (Marine Ecological Processes)	A	A	A	A

Assessment Types

- Marine sciences subject and analytical skills tests
- Bioethics quiz
- Scientific paper

Mathematics

Studying mathematics develops such skills as critical thinking, oral and written communication, arguing logically and rigorously, thinking abstractly, formulating and solving problems, analyzing data, analyzing mathematical models, quantitative and computer proficiency, and the ability to work in groups. Employers value these skills; consequently, math majors find themselves in demand by employers for careers in a wide spectrum of fields.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 848) | Bachelor of Science (p. 853)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Mathematics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Department of Mathematics offers two undergraduate degree programs in mathematics:

Bachelor of Arts

Intended for students who wish to pursue a career in a mathematical field or to teach mathematics at the secondary-school level, but who do not currently contemplate graduate study in mathematics.

Bachelor of Science

Intended for students who wish to pursue graduate study in mathematics as well as for other strong students with a deep interest in mathematics.

Coursework for the Major

Students are required to take eight core courses, providing a broad base in mathematics, and four electives chosen from a list of approved courses. All but two of the core courses are the same for both degrees. Students pursuing the B.A. degree have greater flexibility in their choice of electives, facilitating the possibility of a double-major with another scientific discipline.

A minimum of 39 credits of mathematics and mathematics-approved electives is required for each degree. All coursework for the major must be completed with minimum grades of C, with the exception of MAS 4105 for students in the B.S. specialization, which requires a minimum grade of B.

Relevant Minors and/or Certificates

Mathematics majors are encouraged to consider taking a minor in computer science, industrial and systems engineering, physics, or statistics. The Department of Statistics offers a minor in actuarial science. In addition, the UFTeach program offers a minor in mathematics teaching.
More Info (https://stat.ufl.edu/academics/undergraduate/minor-in-actuarial-science)

UFTeach Program

There is a severe shortage of qualified high school mathematics teachers in Florida and nationwide. Students interested in entering this high-demand profession should see a departmental advisor about the UFTeach program. Mathematics majors in this program complete the requirements for the UFTeach minor in mathematics, as well as those for the B.A. or B.S. in mathematics. These students graduate with all the coursework and preparation the State of Florida requires for professional certification as a high school mathematics teacher.
More Info (http://education.ufl.edu/uf-teach)

Research

Research and scholarly opportunities are described on the mathematics website under Opportunities for Undergraduates.
More Info (http://www.math.ufl.edu/mathematics-major/opportunities-for-undergraduates)

Combined Degree Programs

Mathematics majors who complete the requirements for major by the end of the junior year are eligible for the combined degree program. Students in this program take the graduate sequences MAA 5228 and MAA 5229 and MAS 5311 and MAS 5312 in their senior year. These 12 credits, which apply

toward the undergraduate degree, will then also apply toward a master's degree in mathematics if the student is admitted to the graduate program. The student should successfully complete this degree with one full-time year of graduate school following receipt of a bachelor's degree.

Related Mathematics Programs

- Combined Degree (p. 1400)
- Mathematics minor (p. 858)

Academic Learning Compact

The major in mathematics enables students to develop proficiency in calculus, differential equations, advanced calculus, linear algebra and abstract algebra, and expose them to several other mathematical areas beyond these core fields. Students will learn to read and to construct mathematical proofs, to reason in abstract mathematical systems and to use mathematical models. Students will also acquire the ability to read new mathematics and to formulate mathematical models and arguments.

Before Graduating Students Must

- Be evaluated on your responses to certain examination questions in upper-division courses that are required for your degree.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Bachelor of Arts: Explain conceptual and computational competency in core mathematics: calculus, differential equations, real analysis, linear algebra and abstract algebra.
   Bachelor of Science: Explain conceptual and computational competency in core mathematics: calculus, differential equations, advanced calculus, linear algebra and abstract algebra.

Critical Thinking

2. Identify correct mathematical arguments in abstract mathematical systems.
3. Develop and analyze mathematical models of scientific problems.

Communication

4. Develop and write correct mathematical arguments.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Bachelor of Arts				
MAA 4102	I, R, A	I, R, A	I, R, A	I, R, A
MAA 4103	I, R, A	I, R, A	I, R, A	I, R, A
MAS 4105	I, R, A	I, R, A	I, R, A	I, R, A
MAS 4301	I, R, A	I, R, A	I, R, A	I, R, A
Bachelor of Science				
MAS 4105	I, R, A	I, R, A	I, R, A	I, R, A
MAA 4211	I, R, A	I, R, A	I, R, A	I, R, A
MAA 4212	I, R, A	I, R, A	I, R, A	I, R, A
MAS 4301	I, R, A	I, R, A	I, R, A	I, R, A

Assessment Types

- Exams

Mathematics | BA

Studying mathematics develops such skills as critical thinking, oral and written communication, arguing logically and rigorously, thinking abstractly, formulating and solving problems, analyzing data, analyzing mathematical models, quantitative and computer proficiency, and the ability to work in groups. Employers value these skills; consequently, math majors find themselves in demand by employers for careers in a wide spectrum of fields.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 848) | Bachelor of Science (p. 853)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Mathematics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Department of Mathematics offers two undergraduate degree programs in mathematics:

Bachelor of Arts

Intended for students who wish to pursue a career in a mathematical field or to teach mathematics at the secondary-school level, but who do not currently contemplate graduate study in mathematics.

Bachelor of Science

Intended for students who wish to pursue graduate study in mathematics as well as for other strong students with a deep interest in mathematics.

Coursework for the Major

Students are required to take eight core courses, providing a broad base in mathematics, and four electives chosen from a list of approved courses. All but two of the core courses are the same for both degrees. Students pursuing the B.A. degree have greater flexibility in their choice of electives, facilitating the possibility of a double-major with another scientific discipline.

A minimum of 39 credits of mathematics and mathematics-approved electives is required for each degree. All coursework for the major must be completed with minimum grades of C, with the exception of MAS 4105 for students in the B.S. specialization, which requires a minimum grade of B.

Relevant Minors and/or Certificates

Mathematics majors are encouraged to consider taking a minor in computer science, industrial and systems engineering, physics, or statistics. The Department of Statistics offers a minor in actuarial science. In addition, the UFTeach program offers a minor in mathematics teaching.
More Info (https://stat.ufl.edu/academics/undergraduate/minor-in-actuarial-science)

UFTeach Program

There is a severe shortage of qualified high school mathematics teachers in Florida and nationwide. Students interested in entering this high-demand profession should see a departmental advisor about the UFTeach program. Mathematics majors in this program complete the requirements for the UFTeach minor in mathematics, as well as those for the B.A. or B.S. in mathematics. These students graduate with all the coursework and preparation the State of Florida requires for professional certification as a high school mathematics teacher.
More Info (http://education.ufl.edu/uf-teach)

Research

Research and scholarly opportunities are described on the mathematics website under Opportunities for Undergraduates.
More Info (http://www.math.ufl.edu/mathematics-major/opportunities-for-undergraduates)

Combined Degree Programs

Mathematics majors who complete the requirements for major by the end of the junior year are eligible for the combined degree program. Students in this program take the graduate sequences MAA 5228 and MAA 5229 and MAS 5311 and MAS 5312 in their senior year. These 12 credits, which apply toward the undergraduate degree, will then also apply toward a master's degree in mathematics if the student is admitted to the graduate program. The student should successfully complete this degree with one full-time year of graduate school following receipt of a bachelor's degree.

Related Mathematics Programs

- Combined Degree (p. 1400)
- Mathematics minor (p. 858)

Bachelor of Arts

The Bachelor of Arts is intended for students who wish to pursue a career in a mathematical field or to teach mathematics at the secondary-school level, but who do not currently contemplate graduate study in mathematics.

Coursework

Code	Title	Credits
Required Coursework for Both Degrees		
MAC 2312	Analytic Geometry and Calculus 2	4
or MAC 3473	Honors Calculus 2	
MAC 2313	Analytic Geometry and Calculus 3	4
or MAC 3474	Honors Calculus 3	
MAP 2302	Elementary Differential Equations	3
MHF 3202	Sets and Logic	3
MAS 4105	Linear Algebra 1	4
MAS 4301	Abstract Algebra 1	3
Additional Required Coursework for B.A.		
Select one sequence:		6
MAA 4102 & MAA 4103	Introduction to Advanced Calculus for Engineers and Physical Scientists 1 and Introduction to Advanced Calculus for Engineers and Physical Scientists 2	
MAA 4211 & MAA 4212	Advanced Calculus 1 and Advanced Calculus 2	
Select four electives, 12 credits minimum, from the approved electives; at least one must be a course offered by the Department of Mathematics at the 4000 level or above		12
Total Credits		39

The mathematics major is expected to take the following upper-division core courses at UF: Linear Algebra, Abstract Algebra, Advanced Calculus 1 and 2, and either Advanced Calculus 1 and 2 or Advanced Calculus for Engineers and Physical Sciences 1 and 2. A combination of MAA 4211 and MAA 4103 is permissible for students in the B.A. track.

These courses are common to all math majors and most clearly define the experience of the mathematics major at UF.

Recommended Coursework for Both Degrees

All math majors are encouraged to meet the college distribution requirement in the physical sciences with the sequence PHY 2048/PHY 2049 or the sequence PHY 2060/PHY 2061. Math majors should also take no mathematics course at the 3000 level or below that is not on the lists of core courses or approved electives, except with advisor approval. Students who want to pursue careers in applied mathematics are urged to take STA 4321/STA 4322 and learn a scientific programming language.

Recommended Coursework for B.A.

B.A. students can use their electives choices creatively. By choosing courses in statistics, computer science, physics, and industrial engineering from the list below, math B.A. majors can enhance their career prospects in applied math, data analysis, information technology and operations research.

Math majors who plan to teach secondary-school mathematics should investigate the UFTeach program (http://education.ufl.edu/uf-teach) and they should include MTG 3212, MAA 4402 and STA 4321 among their electives.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=270101&track=01) may be used for transfer students.

Semester 1

- Complete MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete MAC 2312
- 2.0 UF GPA required

Semester 3

- Complete MAC 2313
- 2.0 UF GPA required

Semester 4

- Complete MHF 3202 with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete MAS 4105 with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Model semesters 1-4 are the same for both degrees.

The semester plans below are sample programs; they may be adjusted to reflect background and goals. Students should consult a department advisor in 358 Little Hall early to plan their programs.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	13
Semester Two		
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
Gen Ed Biological or Physical Sciences (area **not** taken in semester 1)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	16
Semester Three		
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
MHF 3202	Sets and Logic (**Critical Tracking**)	3
Gen Ed Humanities		3
Gen Ed Physical Sciences		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Gen Ed Social and Behavioral Sciences		3
	Credits	17
Semester Four		
MAP 2302	Elementary Differential Equations (Gen Ed Mathematics)	3
MAS 4105	Linear Algebra 1 (**Critical Tracking**)	4
Gen Ed Composition; Writing Requirement		3
Gen Ed Biological Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Five		
MAS 4301	Abstract Algebra 1	3
Elective (3000 level or higher, not in major)		3
Foreign language course		4-5
Mathematics elective		3
	Credits	13-14
Semester Six		
Elective		3

Electives (3000 level or higher, not in major)		6
Foreign language course		3-5
Mathematics elective		3
	Credits	15-17
Semester Seven		
MAA 4102	Introduction to Advanced Calculus for Engineers and Physical Scientists 1	3
Elective or foreign language if 4-3-3 option		3
Electives (3000 level or higher, not in major)		6
Mathematics elective		3
	Credits	15
Semester Eight		
MAA 4103	Introduction to Advanced Calculus for Engineers and Physical Scientists 2	3
Elective		3
Electives (3000 level or higher, not in major)		6
Mathematics elective		3
	Credits	15
	Total Credits	120

Approved Electives

Approved Electives for Both Degrees | Except as Noted

Code	Title	Credits
MAA 4226	Introduction to Modern Analysis 1	3
MAA 4227	Introduction to Modern Analysis 2	3
MAA 4402	Functions of a Complex Variable	3
MAD 3107	Discrete Mathematics	3
MAD 4203	Introduction to Combinatorics 1	3
MAD 4204	Introduction to Combinatorics 2	3
MAD 4401	Introduction to Numerical Analysis	3
MAP 4305	Differential Equations for Engineers and Physical Scientists	3
MAP 4341	Elements of Partial Differential Equations	3
MAP 4413	Fourier Analysis	3
MAP 4484	Modeling in Mathematical Biology	3
MAP 4102	Probability Theory and Stochastic Processes 2	3
MAS 4124	Introduction to Numerical Linear Algebra	3
MAS 4203	Introduction to Number Theory	3
MAT 4930	Special Topics in Mathematics (only if approved by undergraduate coordinator)	1-3
MHF 4102	Elements of Set Theory	3
MHF 4203	Foundations of Mathematics	3
MTG 3212	Geometry	3
MTG 4302	Elements of Topology 1	3
MTG 4303	Elements of Topology 2	3
Any course offered by the mathematics department at the 5000 level or above and any of the following courses offered outside the mathematics department:		
CDA 3101	Introduction to Computer Organization	
COP 3530	Data Structures and Algorithm	
COP 4600	Operating Systems	
ESI 3312	Operations Research 1	
ESI 4313	Operations Research 2	
PHY 3063	Enriched Modern Physics	
PHY 3221	Mechanics 1	
PHY 3323	Electromagnetism 1	
PHY 3513	Thermal Physics 1	
PHY 4222	Mechanics 2	
PHY 4324	Electromagnetism 2	
PHY 4424	Optics 1	
PHY 4523	Statistical Physics	
PHY 4604	Introductory Quantum Mechanics 1	
PHY 4605	Introductory Quantum Mechanics 2	
STA 4210	Regression Analysis	
STA 4211	Design of Experiments	

STA 4321	Introduction to Probability
STA 4322	Introduction to Statistics Theory
STA 4853	Introduction to Time Series and Forecasting

Academic Learning Compact

The major in mathematics enables students to develop proficiency in calculus, differential equations, advanced calculus, linear algebra and abstract algebra, and expose them to several other mathematical areas beyond these core fields. Students will learn to read and to construct mathematical proofs, to reason in abstract mathematical systems and to use mathematical models. Students will also acquire the ability to read new mathematics and to formulate mathematical models and arguments.

Before Graduating Students Must

- Be evaluated on your responses to certain examination questions in upper-division courses that are required for your degree.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Bachelor of Arts: Explain conceptual and computational competency in core mathematics: calculus, differential equations, real analysis, linear algebra and abstract algebra.
   Bachelor of Science: Explain conceptual and computational competency in core mathematics: calculus, differential equations, advanced calculus, linear algebra and abstract algebra.

Critical Thinking

2. Identify correct mathematical arguments in abstract mathematical systems.
3. Develop and analyze mathematical models of scientific problems.

Communication

4. Develop and write correct mathematical arguments.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Bachelor of Arts				
MAA 4102	I, R, A	I, R, A	I, R, A	I, R, A
MAA 4103	I, R, A	I, R, A	I, R, A	I, R, A
MAS 4105	I, R, A	I, R, A	I, R, A	I, R, A
MAS 4301	I, R, A	I, R, A	I, R, A	I, R, A
Bachelor of Science				
MAS 4105	I, R, A	I, R, A	I, R, A	I, R, A
MAA 4211	I, R, A	I, R, A	I, R, A	I, R, A
MAA 4212	I, R, A	I, R, A	I, R, A	I, R, A
MAS 4301	I, R, A	I, R, A	I, R, A	I, R, A

Assessment Types

- Exams

Mathematics | BS

Studying mathematics develops such skills as critical thinking, oral and written communication, arguing logically and rigorously, thinking abstractly, formulating and solving problems, analyzing data, analyzing mathematical models, quantitative and computer proficiency, and the ability to work in groups. Employers value these skills; consequently, math majors find themselves in demand by employers for careers in a wide spectrum of fields.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 848) | Bachelor of Science (p. 853)

- **Credits for Degree:** 120
- **Additional Information**
- **Related Mathematics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Department of Mathematics offers two undergraduate degree programs in mathematics:

Bachelor of Arts

Intended for students who wish to pursue a career in a mathematical field or to teach mathematics at the secondary-school level, but who do not currently contemplate graduate study in mathematics.

Bachelor of Science

Intended for students who wish to pursue graduate study in mathematics as well as for other strong students with a deep interest in mathematics.

Coursework for the Major

Students are required to take eight core courses, providing a broad base in mathematics, and four electives chosen from a list of approved courses. All but two of the core courses are the same for both degrees. Students pursuing the B.A. degree have greater flexibility in their choice of electives, facilitating the possibility of a double-major with another scientific discipline.

A minimum of 39 credits of mathematics and mathematics-approved electives is required for each degree. All coursework for the major must be completed with minimum grades of C, with the exception of MAS 4105 for students in the B.S. specialization, which requires a minimum grade of B.

Relevant Minors and/or Certificates

Mathematics majors are encouraged to consider taking a minor in computer science, industrial and systems engineering, physics, or statistics. The Department of Statistics offers a minor in actuarial science. In addition, the UFTeach program offers a minor in mathematics teaching.
More Info (https://stat.ufl.edu/academics/undergraduate/minor-in-actuarial-science)

UFTeach Program

There is a severe shortage of qualified high school mathematics teachers in Florida and nationwide. Students interested in entering this high-demand profession should see a departmental advisor about the UFTeach program. Mathematics majors in this program complete the requirements for the UFTeach minor in mathematics, as well as those for the B.A. or B.S. in mathematics. These students graduate with all the coursework and preparation the State of Florida requires for professional certification as a high school mathematics teacher.
More Info (http://education.ufl.edu/uf-teach)

Research

Research and scholarly opportunities are described on the mathematics website under Opportunities for Undergraduates.
More Info (http://www.math.ufl.edu/mathematics-major/opportunities-for-undergraduates)

Combined Degree Programs

Mathematics majors who complete the requirements for major by the end of the junior year are eligible for the combined degree program. Students in this program take the graduate sequences MAA 5228 and MAA 5229 and MAS 5311 and MAS 5312 in their senior year. These 12 credits, which apply toward the undergraduate degree, will then also apply toward a master's degree in mathematics if the student is admitted to the graduate program. The student should successfully complete this degree with one full-time year of graduate school following receipt of a bachelor's degree.

Related Mathematics Programs

- Combined Degree (p. 1400)
- Mathematics minor (p. 858)

Bachelor of Science

The Bachelor of Science (B.S.) is intended for students who wish to pursue graduate study in mathematics as well as for other strong students with a deep interest in mathematics.

Coursework

Code	Title	Credits
Required Coursework for Both Degrees		
Select one:		4
MAC 2312	Analytic Geometry and Calculus 2	

MAC 2512	Calculus 2 for Advanced Placement Students	
MAC 3473	Honors Calculus 2	
MAC 2313	Analytic Geometry and Calculus 3	4
or MAC 3474	Honors Calculus 3	
MAP 2302	Elementary Differential Equations	3
MHF 3202	Sets and Logic	3
MAS 4105	Linear Algebra 1	4
MAS 4301	Abstract Algebra 1	3
Additional Required Coursework for B.S.		
MAA 4211 & MAA 4212	Advanced Calculus 1 and Advanced Calculus 2 [1]	6
Select four electives, 12 credits minimum, from the approved electives; at least three must be a course offered by the Department of Mathematics at the 4000 level or above		12
Total Credits		39

[1] Students must earn a minimum grade of B in MAS 4105 before taking MAA 4211.

The mathematics major is expected to take the following upper-division core courses at UF: Linear Algebra, Abstract Algebra, and either Advanced Calculus 1 and 2 or Advanced Calculus for Engineers and Physical Sciences 1 and 2. A combination of MAA 4211 and MAA 4103 is permissible for students in the B.A. track.

These courses are common to all math majors and most clearly define the experience of the mathematics major at UF.

Recommended Coursework for Both Degrees

All math majors are encouraged to meet the college distribution requirement in the physical sciences with the sequence PHY 2048/PHY 2049 or the sequence PHY 2060/PHY 2061. Math majors should also take no mathematics course at the 3000 level or below that is not on the lists of core courses or approved electives, except with advisor approval. Students who want to pursue careers in applied mathematics are urged to take STA 4321/STA 4322 and learn a scientific programming language.

Recommended Coursework for B.S.

Students who want to pursue graduate study in a Ph.D. program in mathematics should complete MAS 4301 and MAA 4211/MAA 4212 by the end of their junior year. They should include MAS 5311 and MAA 4226 among their electives, and they are encouraged to take more than four electives.

Graduate tuition fees will apply for MAS 5311.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=270101&track=01) may be used for transfer students.

Semester 1

- Complete MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete MAC 2312
- 2.0 UF GPA required

Semester 3

- Complete MAC 2313
- 2.0 UF GPA required

Semester 4

- Complete MHF 3202 with a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete MAS 4105 with a minimum grade of B and a 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Model semesters 1-4 are the same for both degrees.

The semester plans below are sample programs; they may be adjusted to reflect background and goals. Students should consult a department advisor in 358 Little Hall early to plan their programs.

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	13
Semester Two		
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
Gen Ed Biological or Physical Sciences (area **not** taken in semester 1)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Humanities (p. 23)		3
Elective		3
	Credits	16
Semester Three		
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
MHF 3202	Sets and Logic (**Critical Tracking**)	3
Gen Ed Humanities		3
Gen Ed Physical Sciences		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Gen Ed Social and Behavioral Sciences		3
	Credits	17
Semester Four		
MAP 2302	Elementary Differential Equations (Gen Ed Mathematics)	3
MAS 4105	Linear Algebra 1 (**Critical Tracking**)	4
Gen Ed Composition; Writing Requirement		3
Gen Ed Biological or Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Five		
MAA 4211	Advanced Calculus 1	3
MAS 4301	Abstract Algebra 1	3
Elective (3000 level or higher, not in major)		3
Foreign language		4-5
	Credits	13-14
Semester Six		
MAA 4212	Advanced Calculus 2	3
Elective (3000 level or higher, not in major)		3-4
Elective		3
Foreign language		3-5
Mathematics elective		3
	Credits	15-18

Semester Seven		
MAA 4226	Introduction to Modern Analysis 1 (or another math elective)	3
MAS 5311	Intro Algebra 1 (or another math elective)	3
Elective or foreign language if 4-3-3 option		3
Electives (3000 level or higher, not in major)		6
	Credits	15
Semester Eight		
MAA 4227	Introduction to Modern Analysis 2 (or another math elective)	3
Elective (inside or outside major)		3
Electives (3000 level or higher, not in major)		6
Mathematics elective		3
	Credits	15
	Total Credits	120

Approved Electives

Approved Electives for Both Degrees | Except as Noted

Code	Title	Credits
MAA 4226	Introduction to Modern Analysis 1	3
MAA 4227	Introduction to Modern Analysis 2	3
MAA 4402	Functions of a Complex Variable	3
MAD 3107	Discrete Mathematics	3
MAD 4203	Introduction to Combinatorics 1	3
MAD 4204	Introduction to Combinatorics 2	3
MAD 4401	Introduction to Numerical Analysis	3
MAP 4305	Differential Equations for Engineers and Physical Scientists	3
MAP 4341	Elements of Partial Differential Equations	3
MAP 4413	Fourier Analysis	3
MAP 4484	Modeling in Mathematical Biology	3
MAP 4102	Probability Theory and Stochastic Processes 2	3
MAS 4124	Introduction to Numerical Linear Algebra	3
MAS 4203	Introduction to Number Theory	3
MAT 4930	Special Topics in Mathematics (only if approved by undergraduate coordinator)	1-3
MHF 4102	Elements of Set Theory	3
MHF 4203	Foundations of Mathematics	3
MTG 3212	Geometry	3
MTG 4302	Elements of Topology 1	3
MTG 4303	Elements of Topology 2	3
Any course offered by the mathematics department at the 5000 level or above and any of the following courses offered outside the mathematics department:		
CDA 3101	Introduction to Computer Organization	
COP 3530	Data Structures and Algorithm	
COP 4600	Operating Systems	
ESI 3312	Operations Research 1	
ESI 4313	Operations Research 2	
PHY 3063	Enriched Modern Physics	
PHY 3221	Mechanics 1	
PHY 3323	Electromagnetism 1	
PHY 3513	Thermal Physics 1	
PHY 4222	Mechanics 2	
PHY 4324	Electromagnetism 2	
PHY 4424	Optics 1	
PHY 4523	Statistical Physics	
PHY 4604	Introductory Quantum Mechanics 1	
PHY 4605	Introductory Quantum Mechanics 2	
STA 4210	Regression Analysis	
STA 4211	Design of Experiments	
STA 4321	Introduction to Probability	
STA 4322	Introduction to Statistics Theory	
STA 4853	Introduction to Time Series and Forecasting	

Academic Learning Compact

The major in mathematics enables students to develop proficiency in calculus, differential equations, advanced calculus, linear algebra and abstract algebra, and expose them to several other mathematical areas beyond these core fields. Students will learn to read and to construct mathematical proofs, to reason in abstract mathematical systems and to use mathematical models. Students will also acquire the ability to read new mathematics and to formulate mathematical models and arguments.

Before Graduating Students Must

- Be evaluated on your responses to certain examination questions in upper-division courses that are required for your degree.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Bachelor of Arts: Explain conceptual and computational competency in core mathematics: calculus, differential equations, real analysis, linear algebra and abstract algebra.
   Bachelor of Science: Explain conceptual and computational competency in core mathematics: calculus, differential equations, advanced calculus, linear algebra and abstract algebra.

Critical Thinking

2. Identify correct mathematical arguments in abstract mathematical systems.
3. Develop and analyze mathematical models of scientific problems.

Communication

4. Develop and write correct mathematical arguments.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Bachelor of Arts				
MAA 4102	I, R, A	I, R, A	I, R, A	I, R, A
MAA 4103	I, R, A	I, R, A	I, R, A	I, R, A
MAS 4105	I, R, A	I, R, A	I, R, A	I, R, A
MAS 4301	I, R, A	I, R, A	I, R, A	I, R, A
Bachelor of Science				
MAS 4105	I, R, A	I, R, A	I, R, A	I, R, A
MAA 4211	I, R, A	I, R, A	I, R, A	I, R, A
MAA 4212	I, R, A	I, R, A	I, R, A	I, R, A
MAS 4301	I, R, A	I, R, A	I, R, A	I, R, A

Assessment Types

- Exams

Mathematics Minor

The College of Liberal Arts and Sciences is the largest college on campus, with more than 10,000 undergraduate students pursuing a variety of disciplines through its 33 majors and 48 minors. Undergraduate students acquire an intellectual foundation based on a well-rounded and comprehensive education designed for an increasingly technological and rapidly changing society.

Contact

Office of the Dean
2014 Turlington Hall
P.O Box 117300
Gainesville FL 32611-7300

352.392.0780

Map (http://campusmap.ufl.edu/?loc=0267) More Info (http://www.clas.ufl.edu)

Academic Advising Center (AAC)
Farrior Hall
205 Fletcher Drive

P.O. Box 112015
University of Florida
Gainesville, FL 32611-2015

352.392.1521

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 23-24 | Completed with minimum grades of C
- **Related Mathematics Programs**

Open to students not majoring in mathematics.

The linear algebra course and three 4000-level electives must be taken from the UF Department of Mathematics; no substitutions from other institutions or departments are allowed.

A prerequisite for admission to the minor is prior completion of one of these 4000-level courses with a minimum grade of C+.

Of the total credits, no more than three may be individual work. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
Calculus 2		
MAC 2312	Analytic Geometry and Calculus 2	4
or MAC 3473	Honors Calculus 2	
Calculus 3		
MAC 2313	Analytic Geometry and Calculus 3	4
or MAC 3474	Honors Calculus 3	
Differential Equations		
MAP 2302	Elementary Differential Equations	3
Linear Algebra		
MAS 4105	Linear Algebra 1	3-4
or MAS 3114	Computational Linear Algebra	
Electives		
MAA, MAD, MAP, MAS, MHF, or MTG courses (4000 level or above) [1]		9
Total Credits		23-24

[1] Three courses at the 4000 level or above, excluding MAS 4105; all three courses must be taken at UF.

Related Mathematics Programs

- Bachelor of Arts or Bachelor of Science in Mathematics (p. 847)

Medical Anthropology Certificate

This certificate provides an intensive foundation in medical anthropology for undergraduate anthropology and non-anthropology majors. Courses emphasize the role that biology, culture, language, and prehistory play in human health, and the experience of healing across cultures.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 12 | Completed with a 3.0 GPA average in all attempted courses

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The Medical Anthropology certificate provides the opportunity to intensively investigate medical and life science problems through a social science framework which integrates the major elements of anthropology:

- biological anthropology
- forensic anthropology
- archeology
- cultural anthropology
- linguistics

Prerequisites

- Undergraduate student in good standing
- Department faculty and college dean approval
- Successful completion of at least one of the following courses:

Code	Title	Credits
ANT 2000	General Anthropology	3
ANT 2301	Human Sexuality and Culture	3
ANT 2410	Cultural Anthropology	3
ANT 3514C	Introduction to Biological Anthropology	4

Required Courses

Code	Title	Credits
Select 12 credits:		12
ANT 3302	Sex Roles: a Cross-Cultural Perspective	
ANT 3451	Race and Racism	
ANT 3467	Food and Culture	
ANT 3478	Global Health Culture	
ANT 3514C	Introduction to Biological Anthropology	
ANT 3515	Human Evolutionary Anatomy	
ANT 4462	Culture and Medicine	
ANT 4468	Health and Disease in Human Evolution	
ANT 4525	Human Osteology and Osteometry	
ANT 4531	Molecular Genetics of Disease	
If approved, select up to 3 credits:		
ANT 4930	Special Topics in Anthropology [1]	
Approved independent research topics course		
Total Credits		12

[1]
- Anthropology of Global Health *or*
- Anthropology of Pregnancy and Birth *or*
- Evolutionary Medicine *or*
- Global Gender Violence *or*
- Global Mental Health

Medical Geography in Global Health Minor

The world faces a pressing need for geographic theories, methods, and techniques to address global health issues. This minor provides training in spatial disease ecology, global health, and essential geostatistical approaches to public health. Hands-on experiences of geospatial analysis are emphasized through lab-based applications.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 19 | Completed with minimum grades of C
- **Additional Information**

Open to all undergraduate students of sophomore standing or higher.

Students take three foundation courses, one techniques course, and two advanced courses, for a total of 19 credits.

Required Courses

Code	Title	Credits
Foundation Courses		
GEO 3452	Introduction to Medical Geography	3
GEO 3454	Peoples and Plagues	3
STA 2023	Introduction to Statistics 1	3
Techniques Course		
GIS 3001C	Spatial Maps and Graphs	4
Advanced Courses		
Select two:		6
GEO 4306C	Geography of Vector-borne Diseases	
GEO 4612	Shelter and Care Options for U.S. Elderly	
GEO 4938	Selected Topics in Geography	
GIS 3420C	GIS Models for Public Health	
GIS 4113	Introduction to Spatial Networks	
Total Credits		19

Medical Geography Certificate

The world faces a pressing need for geographic theories, methods, and techniques to address global health issues. This certificate provides training in spatial disease ecology, global health, and essential geostatistical approaches to public health. Hands-on experiences of geospatial analysis are emphasized through lab-based applications.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 12-13 | Completed with minimum grades of B-
- **Additional Information**
- **Related Medical Geography Programs**

Open to all UF undergraduate students of sophomore standing or higher.

Required Courses

Code	Title	Credits
GEO 3452	Introduction to Medical Geography	3
GEO 3454	Peoples and Plagues	3
Select one techniques course:		3-4
GEO 3162C	Introduction to Quantitative Analysis for Geographers	
GIS 3043	Foundations of Geographic Information Systems	
GIS 3420C	GIS Models for Public Health	
Select one advanced course:		3
GEO 4306C	Geography of Vector-borne Diseases	
GEO 4612	Shelter and Care Options for U.S. Elderly	
GEO 4938	Selected Topics in Geography (Applications of GIS for Spatial Epidemiology and Diseases Ecology)	
GIS 4113	Introduction to Spatial Networks	
Total Credits		12-13

Related Medical Geography Programs

- BA | Medical Geography in Global Health (p. 717)
- BS | Medical Geography in Global Health (p. 728)

Medieval and Early Modern Studies Minor

The minor focuses on medieval and early modern European culture and its influences on the modern world. Students acquire historical perspectives that contribute to current discussions about ethnicity and nationality, colonialism, technologies and their effects, gender and sexuality, and the characteristics of historical and fictional narratives.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Contact:** 263A Dauer Hall (http://campusmap.ufl.edu/?loc=0111)
- **Additional Information**
- **Related Medieval and Early Modern Studies Programs**

Requirements

Of the required credits, at least six credits must be at the 3000 level and at least three credits must be at the 4000 level. An additional 3-credit requirement is completion of a 2000-level foreign language course.
Courses (http://mems.center.ufl.edu/mems-courses)

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Related Medieval and Early Modern Studies Programs

- Bachelor of Arts in Interdisciplinary Studies, Medieval and Early Modern Studies (p. 799)

Meteorology and Climatology Certificate

The meteorology and climatology certificate provides a working knowledge of atmospheric processes across spatial and temporal scales. This certificate is applicable to many disciplines in the physical sciences and enables students to supplement their majors with an understanding and awareness of the societal impacts of natural hazards and climate change.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 12 | Completed with minimum grades of B- in each course
- **Additional Information**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The program is open to all undergraduate students.

Students take one introductory course, one or two intermediate courses, and one or two advanced courses for a minimum of 12 credits.

Required Courses

Code	Title	Credits
Introductory Course		
GEO 2242	Extreme Weather	3
or MET 1010	Introduction to Weather and Climate	
Intermediate Courses		
Select one or two:		3-7
GEO 3250	Climatology	
GEO 3280	Principles of Geographic Hydrology	
GEO 3341	Extreme Floods	
GLY 3074	Oceans and Global Climate Change	
MET 3503	Weather and Forecasting	
Advanced Courses		
Select one or two:		3-6
MET 4532	Hurricanes	
MET 4560	Atmospheric Teleconnections	
MET 4750	Spatial Analysis of Atmospheric Data using GIS	

Microbiology and Cell Sciences | CLAS

The Bachelor of Science in Microbiology and Cell Sciences offers students flexibility in a curriculum that develops an excellent knowledge base and an understanding of concepts in microbiology, cell biology, and the biomolecular sciences. Emphasizes application of the scientific method to gain an understanding of the biological world at the cellular and molecular levels. Students learn to evaluate hypotheses, to interpret experimental data, and to communicate results effectively.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Microbiology and Cell Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

This major prepares students for entry into professional programs in medicine, dentistry, and veterinary medicine and provides a strong foundation for graduate studies in microbiology, cell biology, and related cellular and biomedical sciences. The major also provides a background for entry into government, industrial research, and diagnostic laboratories.

The curriculum develops fundamental knowledge of prokaryotic and eukaryotic cells and viruses. Courses include the physiology and genetics of microorganisms, mechanisms of pathogenesis and innate immunity systems, astrobiology, bacterial and genome sequencing and bioinformatics. More Info (http://microcell.ufl.edu/undergraduate-programs)

Coursework for the Major

All majors must complete 28 credits: 18 credits of core requirements, at least 7 credits of department electives and 3 credits for the quantitative requirement. A minimum of one credit in an advanced laboratory is required as part of the 7 department-elective credits. In addition, students must complete 35-38 hours of required foundation coursework.

Minimum grades of C within two attempts, including withdrawals, are required in all critical-tracking courses, major courses, department core requirements, department electives and the quantitative requirement. Second attempts must be completed the next semester of enrollment. A cumulative 2.0 GPA is also required.

Required Foundation Coursework

Code	Title	Credits
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	
MAC 2311	Analytic Geometry and Calculus 1	4
Select one:		8-10
Option One		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option Two		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
CHM 2210	Organic Chemistry 1	3
CHM 2211	Organic Chemistry 2	5
& 2211L	and Organic Chemistry Laboratory	
Total Credits		36-38

All majors must complete the biology and general chemistry sequences and calculus by the end of the sophomore year. Organic Chemistry, CHM 2210, must be completed by the end of tracking term five. To continue in the major, students must attain a cumulative GPA in these graded courses of no less than 2.5 and with no grade lower than a C.

Core Requirements

Code	Title	Credits
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
or CHM 3218	Organic Chemistry/Biochemistry 2	
BSC 2891	Python Programming for Biology	3
or MCB 4325C	R for Functional Genomics	
MCB 3023	Principles of Microbiology	5
& 3023L	and Principles of Microbiology Laboratory	
MCB 4203	Bacterial Pathogens	3
or PCB 4233	Immunology	
MCB 4304	Genetics of Microorganisms	3
or PCB 4522	Molecular Genetics	
MCB 4403	Prokaryotic Cell Structure and Function	3
or PCB 3134	Eukaryotic Cell Structure and Function	
Select one:		3
BSC 2891	Python Programming for Biology	
MCB 4325C	R for Functional Genomics	
Similar Programming or Biostatistics with Programming course		
Total Credits		24

If students take both "or" classes, one will count as a core course and the other will roll over into the 10-credit department elective requirement.

Department Elective Requirement

A total of 7 credits of approved department electives, including one credit in an advanced lab, are required. The list of approved department electives is available on the department website. A maximum of four credits of approved department electives may be taken in other departments. The remaining six credits must be chosen from approved department electives.

Programming or Biostatistics with Programming Requirement

A total of 3 credits of approved courses meets this requirement. Select from BSC 2891, MCB 4325C, or any equivalent programming class. Several of these courses are also department electives and cannot be used to fulfill both the quantitative and the department elective requirements. No overlap is allowed. STA 2023 will not fulfill this requirement

Course Details

MCB 4911 may be taken for a maximum of three credits per semester and six credits total. This policy also applies to microbiology and cell science majors registered for undergraduate research in other departments' undergraduate research courses, such as BCH 4905, BMS 4905, ZOO 4911 etc.

MCB 4934 is often used for TA positions as “Supervised Teaching.” TA positions may be repeated for a total of two semesters with one lab assignment per semester.

Enrollment in MCB 4911, MCB 4905 and MCB 4934 (Supervised Teaching) will not fulfill any credits toward the microbiology major requirements; they will count only as general elective credit toward the 120 credits for the B.S. degree.

Combined Degree Program

A Bachelor of Science and Master of Science (non-thesis) program is offered by the College of Agricultural and Life Sciences. Microbiology majors in both the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences are eligible for admission to the Combined Degree Program.

Relevant Minors and/or Certificates

The Microbiology and Cell Science Department also offers an undergraduate minor in bioinformatics to students majoring in any biology-related subject, including and not limited to microbiology, biology, or biochemistry.

So integrated is bioinformatics with biology that it is difficult to find an active research program that does not rely on bioinformatic analysis to achieve results. Unfortunately, the integration of bioinformatic and traditional methods is not stressed in many undergraduate programs, leaving the next generation of biologists without the skills they need to succeed in tomorrow’s research environment. The undergraduate minor in bioinformatics provides this critical training to future professionals in the biological disciplines.

Research

A majority of majors are actively involved in undergraduate research for credit with mentors throughout the university. Preprofessional and graduate school-bound majors are encouraged to do a minimum of two semesters of undergraduate research. The department has a comprehensive list of mentors across campus who allow undergraduate students to do valuable research under their guidance. Please refer to the department website for more information on undergraduate research, finding a mentor and a contact list of UF faculty who have worked with microbiology and cell science majors.
More Info (http://microcell.ufl.edu/programs)

Enrollment in MCB 4911 will not fulfill any credits toward the microbiology major requirements; they will count only as general elective credit toward the 120 credits for the B.S. degree.

Related Microbiology and Cell Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Microbiology and Cell Science, CALS (p. 229)
- Bachelor of Science in Microbiology and Cell Science, UF Online (p. 224)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260503&track=01) may be used for transfer students.

Semester 1

- Complete CHM 1025 or CHM 2045/CHM 2045L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046/CHM 2046L and BSC 2010/BSC 2010L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/BSC 2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete CHM 2210
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). Microbiology electives outside of the department do not count towards the 3000 level or above electives outside of the major requirement. CHM 2211, CHM 2211L, BCH 4024, PHY 2054, PHY 2054L, PHY 2049, and PHY 2049L may count towards 3000 level or above electives outside of the major.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree (p. 514)**.**

Degree Comparison between the Colleges

CALS | MCB	CLAS | MCY
Effective Oral Communication (AEC 3030C, SPC 2608)	College-level Foreign Language Sequence (8-10 credits)
Technical Writing (ENC 2210, ENC 3254, AEC 3033C)	1 additional Humanity course
Economics (ECO 2013, ECO 2023, AEB 2014)	1 additional Social Science course

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23) [1]		3
	Credits	14
Semester Two		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	4
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
BSC 2891	Python Programming for Biology (or similar quantitative elective)	3
Gen Ed Composition		3
	Credits	14
Semester Three		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
CHM 2210	Organic Chemistry 1 (**Critical Tracking**)	3
Gen Ed Social and Behavioral Sciences		3
Foreign language		3
Departmental elective		3
	Credits	16
Semester Four		
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
MCB 3023 & 3023L	Principles of Microbiology and Principles of Microbiology Laboratory (**Critical Tracking**)	5
State Core Gen Ed Humanities (p. 23)		3
Foreign language		4
	Credits	17
Semester Five		
BCH 4024 or CHM 3218	Introduction to Biochemistry and Molecular Biology or Organic Chemistry/Biochemistry 2	4
MCB 4203 or PCB 4233	Bacterial Pathogens (**Critical Tracking**) [2] or Immunology	3
Gen Ed Social and Behavioral Sciences		3
Foreign Language		4
	Credits	14
Semester Six		
MCB 4304 or PCB 4522	Genetics of Microorganisms [3] or Molecular Genetics	3
MCB 4034L	Advanced Microbiology Laboratory	1
Gen Ed Humanities		3

Gen Ed Mathematics		3
Foreign Language		5
	Credits	15
Semester Seven		
Select one:		4-5
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
Electives (3000 level or higher; not in major)		6
Electives		6
	Credits	16-17
Semester Eight		
Select one:		4-5
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Department electives		4
Electives		6
	Credits	14-15
	Total Credits	120

1 ENC 1101 recommended.

2 MCB 4203 is taught only in fall; PCB 4233 is taught only in spring.

3 MCB 4304 is taught only in fall; PCB 4522 is taught only in spring.

A 2.5 GPA with minimum grades of C in the bolded science and math courses listed above is required to continue in the major after Semester 4.

Academic Learning Compact

The Bachelor of Science in microbiology and cell science, offered by both the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences, offers students flexibility in a curriculum that develops an excellent knowledge base and an understanding of concepts in microbiology, cell biology and the biomolecular sciences. Emphasis will be placed on application of the scientific method to gain an understanding of the biological world at the cellular and molecular levels. Students will learn to evaluate hypotheses, to interpret experimental data and to communicate results effectively.

Before Graduating Students Must

- Pass a microbiology and cell sciences competency test consisting of four parts, one part from each of these required courses:

Code	Title	Credits
MCB 3023	Principles of Microbiology	3
MCB 3023L	Principles of Microbiology Laboratory	3
& MCB 4034L	and Advanced Microbiology Laboratory (or equivalent)	
MCB 4203	Bacterial Pathogens	3
or PCB 4233	Immunology	
MCB 4304	Genetics of Microorganisms	3
or PCB 4522	Molecular Genetics	

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe fundamental concepts, skills and processes in microbiology, molecular biology and in host/pathogen interactions.
2. Apply fundamental concepts, skills and protocols used to conduct research in fields of microbiology, molecular biology and in host/pathogen.

Critical Thinking

3. Evaluate information and data in the general areas of microbiology and the cellular and molecular biological sciences.
4. Solve typical problems that are encountered in general areas of microbiology and cellular and molecular biological sciences.

Communication

5. Communicate effectively in written form in a manner appropriate in microbiology and the cellular and molecular biological sciences.
6. Communicate orally (including visual aids) in an effective manner appropriate in microbiology and the cellular and molecular biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
AEC 3030C						I, R, A
AEC 3033C					I, R, A	
MCB 3023	I, A		I	I		
MCB 3023L	I, R	I, R	R	I, R, A		R
MCB 4034L	I, R	I, R, A	I, R, A	I, R	R	I, R
MCB 4203 or PCB 4233	I, R, A	I, R	I, R	I, R	I, R	I, R
MCB 4304 or PCB 4522	I, R, A	I, R	R, A	R	R	R

Assessment Types

- Genome and lab projects
- Presentations
- Exams
- Final grades

Philosophy

Philosophy addresses the most fundamental problems that arise when reflecting on the nature of the world and our place in it. Philosophers ask questions such as: What can we know? What are the general features of reality? What is the relation between mind and body? How should one live?

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Philosophy Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Philosophical problem examination is primarily conceptual rather than empirical, in that philosophers seek to develop conceptual accounts adequate to the phenomena they want to understand. The study of philosophy equips one to address difficult issues with critical thinking and sound reasoning, skills essential to effective thought and communication.

This major is excellent preparation for professional schools in law, business, medicine and journalism, and for careers in the private and public sector. More Info (http://www.phil.ufl.edu/ugrad/ugrad-major.html)

Coursework for the Major

The major requires 33 credits of coursework in philosophy with minimum grades of C.

Required Coursework

Code	Title	Credits
PHH 3100	Ancient Greek Philosophy	3
PHH 3400	Modern Philosophy	3
PHI 3130	Symbolic Logic	3
PHI 3300	Theory of Knowledge	3
or PHI 3500	Metaphysics	
PHI 3650	Moral Philosophy	3

Philosophy electives	18
Total Credits	33

- At least six credits must be at the 4000 level or above, excluding the following:

Code	Title	Credits
PHH 4911	Undergraduate Research in History of Philosophy	3
PHI 4905	Individual Work	1-3
PHI 4911	Undergraduate Research in Philosophy	3
PHI 4912	Honors Project	3

  (To enroll in a 4000-level course, a student must complete a 3000-level philosophy course or receive instructor permission.)
- At least 27 of the 33 credits must be at the 3000 level or above.

No more than 15 credits of transfer credit can count toward the degree and no more than three credits of individual work (PHH 4911, PHI 4905 or PHI 4911) can count toward the required minimum. Prior to advance registration each semester, the department makes available on its website customized descriptions of its undergraduate courses offered in the upcoming semester.

Course Details

- Fall course information (http://www.phil.ufl.edu/courses/fall/latest)
- Spring course information (http://www.phil.ufl.edu/courses/spring/latest)

Research

It is possible to write an honors thesis, which involves independent research under the supervision of a faculty director. This is usually a two-semester process in the final year.
More Info (http://www.phil.ufl.edu/ugrad/ugrad-major.html)

Related Philosophy Programs

- Philosophy minor (p. 872)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=380101&track=01) may be used by transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 philosophy course
- 2.0 UF GPA required

Semester 3

- Maintain coursework from semester 2
- 2.0 UF GPA required

Semester 4

- Complete 1 additional philosophy course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete 1 additional philosophy course (1 of the 3 courses must be at the 3000 level) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). Generally, it is a good idea to take the area requirement courses as early as possible; in particular, PHI 3130 is best taken earlier rather than later.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Foreign language		4-5
Electives		4
	Credits	14-15
Semester Two		
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Composition; Writing Requirement		3
Gen Ed Social and Behavioral Sciences		3
Foreign language		3-5
Philosophy elective (**Critical Tracking**; 2000 level; Gen Ed Humanities)		3
	Credits	15-17
Semester Three		
Gen Ed Biological or Physical Sciences (area **not** taken in semester two)		3
Elective, or foreign language, if 4-3-3 option		3
State Core Gen Ed Mathematics, pure math (p. 23)		3
Required philosophy course (**Critical Tracking**)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Four		
Required philosophy course (**Critical Tracking**)		3
Gen Ed Biological Sciences		3
Select one:		3
Elective		
State Core Gen Ed Humanities (p. 23) [1]		
Philosophy elective (3000 level; Gen Ed Humanities)		3
Gen Ed Physical Sciences		3
	Credits	15
Semester Five		
Electives		6
Required philosophy courses		6
Gen Ed Social and Behavioral Sciences		3
Science laboratory (Gen Ed Biological or Physical Sciences)		1
	Credits	16
Semester Six		
Electives		9
Philosophy elective (3000 level)		3
Required philosophy course		3
	Credits	15
Semester Seven		
Elective credits (3000 level or above, not in major)		9
Philosophy elective (3000 level)		3
Philosophy elective (4000 level)		3
	Credits	15
Semester Eight		
Elective		3
Electives (3000 level or above, not in major)		9

Philosophy elective (4000 level)		3
	Credits	15
	Total Credits	120

[1] If PHI 2010 not taken in semester two.

Required Philosophy Courses

Code	Title	Credits
PHH 3100	Ancient Greek Philosophy (Gen Ed Humanities)	3
PHH 3400	Modern Philosophy (Gen Ed Humanities)	3
PHI 3130	Symbolic Logic (Gen Ed Mathematics)	3
PHI 3300	Theory of Knowledge (Gen Ed Humanities)	3
or PHI 3500	Metaphysics	
PHI 3650	Moral Philosophy (Gen Ed Humanities)	3

Academic Learning Compact

The major in philosophy provides a thorough knowledge of philosophical problems and arguments as well as critical thinking skills applicable to a wide variety of intellectual areas. Students will become familiar with key positions in the history of Western philosophy, learn how to navigate the contemporary philosophical terrain and acquire a working knowledge of formal logic. They will learn how to represent complex arguments in a clear and fair fashion, to evaluate them for cogency and to construct arguments of their own. Finally, students will become practiced in writing about abstract and elusive topics in a critical and compelling manner.

Before Graduating Students Must

- Earn minimum grades of C in all courses satisfying the major's distribution requirements, thereby demonstrating achievement of SLOs 1-3.
- Complete a model paper in a 4000-level philosophy class with a minimum grade of B, thereby demonstrating achievement of SLOs 4-7.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain the major questions addressed, the range of answers offered and the methods employed in the history of Western philosophy.
2. Identify, describe and explain the major arguments and options in core areas of contemporary philosophy, such as ethics, epistemology and metaphysics.
3. Employ the fundamental tools of formal logic, including the propositional and predicate calculus.

Critical Thinking

4. Discern the structure of arguments, to represent them fairly and clearly and to evaluate them for cogency.
5. Formulate original arguments, anticipating objections and responding in a conscientious fashion.

Communication

6. Read and discuss complex philosophical texts from both historical sources and contemporary works.
7. Speak and write clearly and persuasively about abstract and conceptually elusive matters.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
PHH 3100	I, R, A			I, R	I, R	I, R	I, R
PHH 3400	I, R, A			I, R	I, R	I, R	I, R
PHI 3130			I, A	I, R			
PHI 3300 or PHI 3500		I, R, A		I, R	I, R	I, R	I, R
PHI 3650		I, R, A		I, R	I, R	I, R	I, R

4000-level Seminars (two or more)				A	A	A	A
Exit Survey	A	A	A	A	A	A	A

Assessment Types

- Papers
- Exams

Philosophy Minor

This minor allows exploration of a variety of areas in the field of philosophy, as well as complementing studies in other disciplines with a philosophically informed perspective.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Additional Information**
- **Related Philosophy Programs**

Requirements

- No more than six credits below the 3000 level
- No more than three credits of independent study or research (PHH 4911, PHI 4905, or PHI 4911)
- Six transfer credits may apply toward the minor
- A minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors

Required Courses

Code	Title	Credits
Select one course from 2 of 4 options:		6
Logic Option		
PHI 2100	Logic	
or PHI 3130	Symbolic Logic	
History Option		
PHH 3100	Ancient Greek Philosophy	
or PHH 3400	Modern Philosophy	
Metaphysics and Epistemology Option		
PHI 3300	Theory of Knowledge	
or PHI 3500	Metaphysics	
Value Theory Option		
PHI 3650	Moral Philosophy	
or PHM 3202	Political Philosophy	
Remaining Credits		
PHH, PHI, PHM, or PHP courses (2000/3000/4000 level)		9
Total Credits		15

Related Philosophy Programs

- Bachelor of Arts in Philosophy (p. 868)

Physics

Physics is the most fundamental natural science. The laws of physics are the starting point for most scientific research and engineering applications. Students majoring in physics obtain broad-based knowledge and expertise applying these laws, as well as hands-on experience building electronic equipment and performing experiments.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 875) | Bachelor of Science (p. 880)
- **Credits for Degree:** 120
- **Contact:** Email (advising@phys.ufl.edu?Subject=Physics Major)
- **Additional Information**
- **Related Physics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

A physics major provides a wide range of career options. Many students pursue further studies in physics, other scientific disciplines, and various branches of engineering and medicine. Professional physicists work in universities and government laboratories seeking answers to fundamental questions about nature, in industry leading the development of new technologies, and in the medical sector performing clinical service and research. The analytical, problem-solving, and communications skills acquired by physics majors also lead to career opportunities in business and finance.

The Department of Physics offers two undergraduate degree programs: The Bachelor of Science (B.S.) is intended for students who wish to pursue graduate study in physics as well as for other students with a deep interest in the subject. The Bachelor of Arts (B.A.) is intended for students who seek the benefits of a physics degree but desire greater flexibility to follow interests in other fields.

Coursework for the Major

Coursework for the major will depend upon the degree program chosen.

Courses for the B.S. or B.A. degree include four pairs of alternative courses:

Code	Title	Credits
PHY 2048	Physics with Calculus 1	3
or PHY 2060	Enriched Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	3
or PHY 2061	Enriched Physics with Calculus 2	
PHY 3101	Introduction to Modern Physics	3
or PHY 3063	Enriched Modern Physics	
PHY 3221	Mechanics 1	3
or PHZ 3113	Introduction to Theoretical Physics	

In each case, the second course includes selected advanced topics not covered in the first. While both courses prepare students for upper-level physics classes, students should see a department advisor to determine which course meets their needs.

Required coursework for each degree can be found below in the Critical Tracking section. Transfer students must take a minimum of 15 credits of required physics courses at UF.

Course Details

Several courses meet the criteria for the general education physical sciences (P) requirement. Some mathematical training (indicated in parentheses) is desirable or required for many of these courses. Of the courses below, only PHY 2048/PHY 2049 count toward the major.

Code	Title	Credits
MET 1010	Introduction to Weather and Climate	3
PHY 1033C	Discovering Physics	3
PHY 2020	Introduction to Principles of Physics [1]	3
Select one general physics sequence: [2]		6-8
PHY 2004	Applied Physics 1	
& PHY 2005	and Applied Physics 2	
PHY 2048	Physics with Calculus 1	
& PHY 2049	and Physics with Calculus 2	
PHY 2053	Physics 1	
& PHY 2054	and Physics 2	

1 MAC 1147 provides mathematical training desirable or required for this course.

2 Students should check the prerequisites carefully before enrolling in a general physics course.

Placement

Students with Advanced Placement credit should consult the catalog's Academic Advising section for course equivalencies. Sequences for advanced students are available from any physics advisor or the department website.

Research

All undergraduate majors are encouraged to participate in research activities. The majority of physics students participate in research during the academic year and/or through summer research programs. Advanced students may also be eligible to enroll in certain graduate courses, thereby accelerating their education. Physics majors are urged to confer with a department advisor as early as possible and especially as their educational goals evolve.

Related Physics Programs

- Physics minor (p. 885)

Academic Learning Compact

The laws of physics are the starting point for most scientific research and engineering applications. Students majoring in physics obtain broad-based knowledge and experience applying these laws as well as hands-on experience building electronic equipment and performing experiments. Many students go on to graduate study in physics, and a considerable number pursue advanced degrees in other science disciplines, all branches of engineering and medical school. Physics majors are employed in industry doing applied work and in academia seeking the answers to fundamental questions.

Before Graduating Students Must

- Pass the UF physics field test, which consists of five parts. One part is given in each of these required courses:

Code	Title	Credits
PHY 2060	Enriched Physics with Calculus 1	3
or PHY 3221	Mechanics 1	
PHY 3323	Electromagnetism 1	3
PHY 3513	Thermal Physics 1	3
PHY 4604	Introductory Quantum Mechanics 1	3
PHY 4802L	Laboratory Physics 1	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, define and describe the core fields of physics: classical mechanics, electricity and magnetism, thermal physics and quantum mechanics.
2. Identify, define and explain experimental physics and data analysis.

Critical Thinking

3. Formulate, solve problems and draw conclusions from data.

Communication

4. Effectively and clearly communicate ideas in speech and in writing in an accepted style.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
PHY 2048 or PHY 2060	I		I	
PHY 2048L	I	I	I	I
PHY 2049 or PHY 2061	I		I	
PHY 2049L	I	I	I	I
PHY 3101 or PHY 3063	I, R		I, R	R
PHY 3221 or PHZ 3113	R, A		R, A	R
PHY 3323	R, A		R, A	R
PHY 3513	R, A		R, A	R

PHY 4604	R, A		R, A	R
PHY 4802L	R, A	R, A	R, A	R, A

Assessment Types

- Field test
- Report
- Presentation

Physics | BA

Physics is the most fundamental natural science. The laws of physics are the starting point for most scientific research and engineering applications. Students majoring in physics obtain broad-based knowledge and expertise applying these laws, as well as hands-on experience building electronic equipment and performing experiments.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 875) | Bachelor of Science (p. 880)
- **Credits for Degree:** 120
- **Contact:** Email (advising@phys.ufl.edu?Subject=Physics Major)
- **Additional Information**
- **Related Physics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

A physics major provides a wide range of career options. Many students pursue further studies in physics, other scientific disciplines, and various branches of engineering and medicine. Professional physicists work in universities and government laboratories seeking answers to fundamental questions about nature, in industry leading the development of new technologies, and in the medical sector performing clinical service and research. The analytical, problem-solving, and communications skills acquired by physics majors also lead to career opportunities in business and finance.

The Department of Physics offers two undergraduate degree programs: The Bachelor of Science (B.S.) is intended for students who wish to pursue graduate study in physics as well as for other students with a deep interest in the subject. The Bachelor of Arts (B.A.) is intended for students who seek the benefits of a physics degree but desire greater flexibility to follow interests in other fields.

Coursework for the Major

Coursework for the major will depend upon the degree program chosen.

Courses for the B.S. or B.A. degree include four pairs of alternative courses:

Code	Title	Credits
PHY 2048	Physics with Calculus 1	3
or PHY 2060	Enriched Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	3
or PHY 2061	Enriched Physics with Calculus 2	
PHY 3101	Introduction to Modern Physics	3
or PHY 3063	Enriched Modern Physics	
PHY 3221	Mechanics 1	3
or PHZ 3113	Introduction to Theoretical Physics	

In each case, the second course includes selected advanced topics not covered in the first. While both courses prepare students for upper-level physics classes, students should see a department advisor to determine which course meets their needs.

Required coursework for each degree can be found below in the Critical Tracking section. Transfer students must take a minimum of 15 credits of required physics courses at UF.

Course Details

Several courses meet the criteria for the general education physical sciences (P) requirement. Some mathematical training (indicated in parentheses) is desirable or required for many of these courses. Of the courses below, only PHY 2048/PHY 2049 count toward the major.

Code	Title	Credits
MET 1010	Introduction to Weather and Climate	3
PHY 1033C	Discovering Physics	3
PHY 2020	Introduction to Principles of Physics [1]	3
Select one general physics sequence: [2]		6-8
PHY 2004	Applied Physics 1	
& PHY 2005	and Applied Physics 2	
PHY 2048	Physics with Calculus 1	
& PHY 2049	and Physics with Calculus 2	
PHY 2053	Physics 1	
& PHY 2054	and Physics 2	

1 MAC 1147 provides mathematical training desirable or required for this course.

2 Students should check the prerequisites carefully before enrolling in a general physics course.

Placement

Students with Advanced Placement credit should consult the catalog's Academic Advising section for course equivalencies. Sequences for advanced students are available from any physics advisor or the department website.

Research

All undergraduate majors are encouraged to participate in research activities. The majority of physics students participate in research during the academic year and/or through summer research programs. Advanced students may also be eligible to enroll in certain graduate courses, thereby accelerating their education. Physics majors are urged to confer with a department advisor as early as possible and especially as their educational goals evolve.

Related Physics Programs

- Physics minor (p. 885)

Bachelor of Arts

The B.A. degree program is for students who want to major in physics but are not presently contemplating graduate studies in physics. It provides a good foundation in the fundamentals while offering increased flexibility in the major, through fewer required courses and more electives, and opportunity for parallel studies in another discipline and/or preprofessional studies.

The B.A. requires a minimum of 32 credit hours in physics plus 25 credits of related coursework. Minimum grades of C are required for coursework counted toward the major.

Required Coursework

Code	Title	Credits
PHY 2048	Physics with Calculus 1	3
or PHY 2060	Enriched Physics with Calculus 1	
PHY 2048L	Laboratory for Physics with Calculus 1	1
PHY 2049	Physics with Calculus 2	3
or PHY 2061	Enriched Physics with Calculus 2	
PHY 2049L	Laboratory for Physics with Calculus 2	1
PHY 3101	Introduction to Modern Physics	3
or PHY 3063	Enriched Modern Physics	
PHY 3221	Mechanics 1	3
or PHZ 3113	Introduction to Theoretical Physics	
PHY 3323	Electromagnetism 1	3
PHY 3513	Thermal Physics 1	3
PHY 4604	Introductory Quantum Mechanics 1	3
PHY 4802L	Laboratory Physics 1	3
or PHY 4803L	Laboratory Physics 2	
4000-level or higher physics courses that are included in the physics major curriculum (minimum) [1]		6
Total Credits		32

1 PHY 4905 and PHY 4911 are not acceptable for this requirement.

Related Coursework

Code	Title	Credits
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
CHM 2045	General Chemistry 1	3
CHM 2046	General Chemistry 2	3
CHM 2045L	General Chemistry 1 Laboratory	1
MAP 2302	Elementary Differential Equations	3
Approved math courses (minimum) [1]		3

[1] Select a course beyond MAP 2302. Certain computer science courses may substitute for the math elective.

Related Physics Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Physics minor (p. 885)

Critical Tracking

Note that critical tracking is the same for both degrees.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree (p. 514)**.**

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=400801&track=01) may be used for transfer students.

Semester 1

- Complete CHM 1025 or CHM 2045; or PHY 2048 or PHY 2060; and a MAC course
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046, MAC 2312, and PHY 2048 or PHY 2060
- 2.0 UF GPA required

Semester 4

- Complete MAC 2313; and PHY 2049 or PHY 2061 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete MAP 2302 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

This plan is structured for students taking Calculus 1 the first semester. Students can have different schedules when they enter UF because of their backgrounds. In particular, students are encouraged to take Physics with Calculus 1 (PHY 2048 or PHY 2060) as soon as they have completed Calculus 1, even if this means delaying chemistry. For all physics courses, adequate mathematical preparation is essential and is built into the suggested plans. Physics majors should meet with a department advisor before planning their schedules.

Additional sample schedules are available on the department's website.
More Info (http://www.phys.ufl.edu/academics/undergraduate/degrees.shtml)

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). MAC 2312, MAC 2313, MAP 2302, and math electives count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
CHM 2046	General Chemistry 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3
PHY 2048	Physics with Calculus 1 (**Critical Tracking**)	
PHY 2060	Enriched Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
Elective		2
	Credits	16
Semester Three		
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**)	
PHY 2061	Enriched Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Physical Sciences)	1
Gen Ed Biological Sciences		3
Foreign language		4-5
	Credits	15-16
Semester Four		
MAP 2302	Elementary Differential Equations (**Critical Tracking**; Gen Ed Mathematics)	3
PHY 3101	Introduction to Modern Physics (Gen Ed Physical Sciences)	3
Gen Ed Biological Sciences		3
Foreign language		3-5
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-17
Semester Five		
PHY 3221	Mechanics 1 (Gen Ed Physical Sciences)	3
PHY 3513	Thermal Physics 1 (Gen Ed Physical Sciences)	3
Elective, or foreign language if 4-3-3 option		3
Mathematics elective		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Six		
PHY 3323	Electromagnetism 1 (Gen Ed Physical Sciences)	3
ENC 3254	Professional Writing in the Discipline (Recommended; Gen Ed Composition; Writing Requirement)	3
Elective		3
Gen Ed Humanities		3
Physics elective (4000 level or higher)		3
	Credits	15
Semester Seven		
PHY 4604	Introductory Quantum Mechanics 1 (Gen Ed Physical Sciences)	3
PHY 4802L	Laboratory Physics 1	3

Electives (3000 level or higher, outside major)		7
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Eight		
Electives		11
Physics elective (4000 level or higher)		3
	Credits	14
	Total Credits	120

Academic Learning Compact

The laws of physics are the starting point for most scientific research and engineering applications. Students majoring in physics obtain broad-based knowledge and experience applying these laws as well as hands-on experience building electronic equipment and performing experiments. Many students go on to graduate study in physics, and a considerable number pursue advanced degrees in other science disciplines, all branches of engineering and medical school. Physics majors are employed in industry doing applied work and in academia seeking the answers to fundamental questions.

Before Graduating Students Must

- Pass the UF physics field test, which consists of five parts. One part is given in each of these required courses:

Code	Title	Credits
PHY 2060	Enriched Physics with Calculus 1	3
or PHY 3221	Mechanics 1	
PHY 3323	Electromagnetism 1	3
PHY 3513	Thermal Physics 1	3
PHY 4604	Introductory Quantum Mechanics 1	3
PHY 4802L	Laboratory Physics 1	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, define and describe the core fields of physics: classical mechanics, electricity and magnetism, thermal physics and quantum mechanics.
2. Identify, define and explain experimental physics and data analysis.

Critical Thinking

3. Formulate, solve problems and draw conclusions from data.

Communication

4. Effectively and clearly communicate ideas in speech and in writing in an accepted style.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
PHY 2048 or PHY 2060	I		I	
PHY 2048L	I	I	I	I
PHY 2049 or PHY 2061	I		I	
PHY 2049L	I	I	I	I
PHY 3101 or PHY 3063	I, R		I, R	R
PHY 3221 or PHZ 3113	R, A		R, A	R
PHY 3323	R, A		R, A	R
PHY 3513	R, A		R, A	R
PHY 4604	R, A		R, A	R
PHY 4802L	R, A	R, A	R, A	R, A

Assessment Types

- Field test
- Report
- Presentation

Physics | BS

Physics is the most fundamental natural science. The laws of physics are the starting point for most scientific research and engineering applications. Students majoring in physics obtain broad-based knowledge and expertise applying these laws, as well as hands-on experience building electronic equipment and performing experiments.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 875) | Bachelor of Science (p. 880)
- **Credits for Degree:** 120
- **Contact:** Email (advising@phys.ufl.edu?Subject=Physics Major)
- **Additional Information**
- **Related Physics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

A physics major provides a wide range of career options. Many students pursue further studies in physics, other scientific disciplines, and various branches of engineering and medicine. Professional physicists work in universities and government laboratories seeking answers to fundamental questions about nature, in industry leading the development of new technologies, and in the medical sector performing clinical service and research. The analytical, problem-solving, and communications skills acquired by physics majors also lead to career opportunities in business and finance.

The Department of Physics offers two undergraduate degree programs: The Bachelor of Science (B.S.) is intended for students who wish to pursue graduate study in physics as well as for other students with a deep interest in the subject. The Bachelor of Arts (B.A.) is intended for students who seek the benefits of a physics degree but desire greater flexibility to follow interests in other fields.

Coursework for the Major

Coursework for the major will depend upon the degree program chosen.

Courses for the B.S. or B.A. degree include four pairs of alternative courses:

Code	Title	Credits
PHY 2048	Physics with Calculus 1	3
or PHY 2060	Enriched Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	3
or PHY 2061	Enriched Physics with Calculus 2	
PHY 3101	Introduction to Modern Physics	3
or PHY 3063	Enriched Modern Physics	
PHY 3221	Mechanics 1	3
or PHZ 3113	Introduction to Theoretical Physics	

In each case, the second course includes selected advanced topics not covered in the first. While both courses prepare students for upper-level physics classes, students should see a department advisor to determine which course meets their needs.

Required coursework for each degree can be found below in the Critical Tracking section. Transfer students must take a minimum of 15 credits of required physics courses at UF.

Course Details

Several courses meet the criteria for the general education physical sciences (P) requirement. Some mathematical training (indicated in parentheses) is desirable or required for many of these courses. Of the courses below, only PHY 2048/PHY 2049 count toward the major.

Code	Title	Credits
MET 1010	Introduction to Weather and Climate	3
PHY 1033C	Discovering Physics	3
PHY 2020	Introduction to Principles of Physics [1]	3
Select one general physics sequence: [2]		6-8

PHY 2004	Applied Physics 1
& PHY 2005	and Applied Physics 2
PHY 2048	Physics with Calculus 1
& PHY 2049	and Physics with Calculus 2
PHY 2053	Physics 1
& PHY 2054	and Physics 2

[1] MAC 1147 provides mathematical training desirable or required for this course.

[2] Students should check the prerequisites carefully before enrolling in a general physics course.

Placement

Students with Advanced Placement credit should consult the catalog's Academic Advising section for course equivalencies. Sequences for advanced students are available from any physics advisor or the department website.

Research

All undergraduate majors are encouraged to participate in research activities. The majority of physics students participate in research during the academic year and/or through summer research programs. Advanced students may also be eligible to enroll in certain graduate courses, thereby accelerating their education. Physics majors are urged to confer with a department advisor as early as possible and especially as their educational goals evolve.

Related Physics Programs

- Physics minor (p. 885)

Bachelor of Science

The B.S. degree program is intended for students planning to do graduate work in physics or related science and engineering disciplines. The B.S. requires a minimum of 41 credits in Physics plus 28 credits of related coursework. Minimum grades of C are required for coursework counted toward the major.

Required Coursework

Code	Title	Credits
PHY 2048	Physics with Calculus 1	3
or PHY 2060	Enriched Physics with Calculus 1	
PHY 2048L	Laboratory for Physics with Calculus 1	1
PHY 2049	Physics with Calculus 2	3
or PHY 2061	Enriched Physics with Calculus 2	
PHY 2049L	Laboratory for Physics with Calculus 2	1
PHY 3101	Introduction to Modern Physics	3
or PHY 3063	Enriched Modern Physics	
PHY 3221	Mechanics 1	3
or PHZ 3113	Introduction to Theoretical Physics	
PHY 3323	Electromagnetism 1	3
PHY 3513	Thermal Physics 1	3
PHY 4222	Mechanics 2	3
PHY 4324	Electromagnetism 2	3
PHY 4523	Statistical Physics	3
PHY 4604	Introductory Quantum Mechanics 1	3
PHY 4802L	Laboratory Physics 1	3
PHY 4803L	Laboratory Physics 2	3
Select one 4000-level or higher physics course that is included in the physics major curriculum [1]		6
Total Credits		44

[1] PHY 4905 and PHY 4911 are not acceptable for this requirement.

Related Coursework

Code	Title	Credits
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
CHM 2045	General Chemistry 1	3
CHM 2046	General Chemistry 2	3

CHM 2045L	General Chemistry 1 Laboratory	1
MAP 2302	Elementary Differential Equations	3
Approved math courses (minimum) [1]		6
Total Credits		28

[1] Select a course beyond MAP 2302. Certain computer science courses may substitute for the math elective.

- Minimum grades of C for coursework counted toward the major

Critical Tracking

Note that critical tracking is the same for both degrees.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=400801&track=01) may be used for transfer students.

Semester 1

- Complete CHM 1025 or CHM 2045; or PHY 2048 or PHY 2060; and a MAC course
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L and MAC 2311
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046, MAC 2312, and PHY 2048 or PHY 2060
- 2.0 UF GPA required

Semester 4

- Complete MAC 2313; and PHY 2049 or PHY 2061 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete MAP 2302 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

This plan is structured for students taking Calculus 1 the first semester. Students can have different schedules when they enter UF because of their backgrounds. In particular, students are encouraged to take Physics with Calculus 1 (PHY 2048 or PHY 2060) as soon as they have completed Calculus 1, even if this means delaying chemistry. For all physics courses, adequate mathematical preparation is essential and is built into the suggested plans. Physics majors should meet with a department advisor before planning their schedules.

Additional sample schedules are available from the department.
More Info (http://www.phys.ufl.edu/academics/undergraduate/degrees.shtml)

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). MAC 2312, MAC 2313, MAP 2302, and upper-division math electives count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
CHM 2046	General Chemistry 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3
PHY 2048	Physics with Calculus 1 (**Critical Tracking**)	
PHY 2060	Enriched Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
Elective		1
	Credits	15
Semester Three		
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**)	
PHY 2061	Enriched Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Physical Sciences)	1
Gen Ed Biological Sciences		3
Foreign language course		4-5
	Credits	15-16
Semester Four		
MAP 2302	Elementary Differential Equations (**Critical Tracking**; Gen Ed Mathematics)	3
PHY 3101	Introduction to Modern Physics (Gen Ed Physical Sciences)	3
Gen Ed Biological Sciences		3
Foreign language course		3-5
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-17
Semester Five		
PHY 3221	Mechanics 1 (Gen Ed Physical Sciences)	3
PHY 3513	Thermal Physics 1 (Gen Ed Physical Sciences)	3
Elective, or foreign language if 4-3-3 option		3
Mathematics elective		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Six		
PHY 3323	Electromagnetism 1 (Gen Ed Physical Sciences)	3
PHY 4222	Mechanics 2	3
ENC 3254	Professional Writing in the Discipline ((Recommended; Gen Ed Composition; Writing Requirement))	3
Gen Ed Humanities		3
Mathematics elective		3
	Credits	15
Semester Seven		
PHY 4324	Electromagnetism 2 (Gen Ed Physical Sciences)	3
PHY 4604	Introductory Quantum Mechanics 1 (Gen Ed Physical Sciences)	3
PHY 4802L	Laboratory Physics 1	3
Elective (3000 level or higher, outside major)		4
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Eight		
PHY 4523	Statistical Physics	3
PHY 4803L	Laboratory Physics 2	3
Electives		6

Physics elective		3
	Credits	15
	Total Credits	120

Academic Learning Compact

The laws of physics are the starting point for most scientific research and engineering applications. Students majoring in physics obtain broad-based knowledge and experience applying these laws as well as hands-on experience building electronic equipment and performing experiments. Many students go on to graduate study in physics, and a considerable number pursue advanced degrees in other science disciplines, all branches of engineering and medical school. Physics majors are employed in industry doing applied work and in academia seeking the answers to fundamental questions.

Before Graduating Students Must

- Pass the UF physics field test, which consists of five parts. One part is given in each of these required courses:

Code	Title	Credits
PHY 2060	Enriched Physics with Calculus 1	3
or PHY 3221	Mechanics 1	
PHY 3323	Electromagnetism 1	3
PHY 3513	Thermal Physics 1	3
PHY 4604	Introductory Quantum Mechanics 1	3
PHY 4802L	Laboratory Physics 1	3

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, define and describe the core fields of physics: classical mechanics, electricity and magnetism, thermal physics and quantum mechanics.
2. Identify, define and explain experimental physics and data analysis.

Critical Thinking

3. Formulate, solve problems and draw conclusions from data.

Communication

4. Effectively and clearly communicate ideas in speech and in writing in an accepted style.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
PHY 2048 or PHY 2060	I		I	
PHY 2048L	I	I	I	I
PHY 2049 or PHY 2061	I		I	
PHY 2049L	I	I	I	I
PHY 3101 or PHY 3063	I, R		I, R	R
PHY 3221 or PHZ 3113	R, A		R, A	R
PHY 3323	R, A		R, A	R
PHY 3513	R, A		R, A	R
PHY 4604	R, A		R, A	R
PHY 4802L	R, A	R, A	R, A	R, A

Assessment Types

- Field test
- Report
- Presentation

Physics Minor

The physics minor consists of the complete sequence in general physics, modern physics, and two 3000/4000-level courses in the physics major course sequence. Students should consult a physics advisor and obtain the required approval no later than the beginning of the junior year.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 17 | Completed with minimum grades of C
- **Related Physics Programs**

All 3000/4000-level courses must be taken from the UF Department of Physics. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Students pursuing an astronomy major must complete six credits of physics coursework beyond what is required for the astronomy major before they will be approved for the physics minor.

The following cannot count toward this minor:

Code	Title	Credits
PHY 3400	Light, Color and Holography	3
PHY 3840L	Building Scientific Equipment	2
PHY 4905	Individual Work	1-4
PHY 4911	Undergraduate Research in Physics	3

Required Courses

Code	Title	Credits
Select one option:		8
Option A		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Option B		
PHY 2048L	Laboratory for Physics with Calculus 1	
PHY 2049L	Laboratory for Physics with Calculus 2	
PHY 2060	Enriched Physics with Calculus 1	
PHY 2061	Enriched Physics with Calculus 2	
PHY 3063	Enriched Modern Physics	3
or PHY 3101	Introduction to Modern Physics	
Two 3000/4000-level courses in the physics major course sequence		6
Total Credits		17

Related Physics Programs

- Bachelor of Arts or Bachelor of Science in Physics (p. 872)

Political Campaigning Certificate

Political science and non-major students may pursue undergraduate training in campaigns and elections, earning a certificate in political campaigning. The certificate is designed for students who may pursue careers in practical politics, including campaign management, lobbying, and issue advocacy.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Contact**
- **Related Political Science Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The application can also be picked up from the political science office in 234 Anderson Hall (http://campusmap.ufl.edu/?loc=0007).
More Info (http://polisci.ufl.edu/files/pc_app.pdf)

Required Courses

Code	Title	Credits
POS 4940	Political Internship	3
Select two:		6
POS 3204	Political Behavior	
POS 4275	Modern Political Campaigns	
POS 4443	Political Parties and Elections	
POS 4463	Interest Group Politics	
Approved electives		9
Total Credits		18

Approved Electives

Choose from the preceding or following list, including one or both of the remaining basic courses (POS 3204/POS 4275/POS 4443/POS 4463).

Code	Title	Credits
POS 3122	State Politics	3
POS 3173	Southern Politics	3
POS 3233	Politics and Public Opinion	3
POS 4291	Religion and Politics in the United States	3
POS 4931	Special Topics (Beyond the Beltway: Politics in States, Counties and Communities)	3
POS 4931	Special Topics (Election Law)	3
POS 4931	Special Topics (Ethics in American Politics)	3
POS 4931	Special Topics (Media and Politics)	3
POS 4931	Special Topics (Money and Politics in America)	3
POS 4931	Special Topics (Race/Poverty/Voting Rights)	3
POS 4931	Special Topics (Survey Research)	3
PUP 3323	Women in Politics	3

Students may petition the director of the political campaigning program for permission to substitute one other course for one of the courses in the electives list.

Related Political Science Programs

- Bachelor of Arts in Political Science (p. 886)

Political Science

The political science major prepares students for a wide range of careers in government, non-governmental organizations, politics, law, and the private sector. Students take coursework in areas as diverse as American and comparative politics, political theory, international relations, public policy and public administration.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Political Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Political science majors are encouraged to serve in a political internship and participate in an overseas studies program. There are also numerous opportunities for students to conduct independent research with faculty. Recent graduates serve throughout federal, state and local government, attend law and graduate school, and work in the non-profit and private sectors.

Students leave the major with an understanding of how politics and government operate, an appreciation for the values governments pursue, and the critical and analytic skills necessary for understanding the empirical and normative dimensions of the political world.

Coursework for the Major

Majors must complete 30 credits of political science coursework, plus STA 2023, all with minimum grades of C. A minimum of 15 credits of political science courses (of the 30 required) must be completed at UF, per the department's residency requirement.

Required Coursework

- 30 credits of political science coursework, including 3 of these 4 core courses:

Code	Title	Credits
CPO 2001	Comparative Politics (Gen Ed Social and Behavioral Sciences and International)	3
INR 2001	Introduction to International Relations (Gen Ed Social and Behavioral Sciences and International)	3
POS 2041	American Federal Government (Gen Ed Social and Behavioral Sciences)	3
POT 2002	Introduction to Political Theory (Gen Ed Humanities)	3

- The remaining political science courses may include:
  - No more than three additional credits of 1000/2000-level courses
  - Additional courses at the 3000 level or higher, including
    - No more than three credits of POS 4905
    - No more than three credits of POS 4940 (graded S/U)

Required Coursework

- STA 2023 Introduction to Statistics, 3 credits

Recommended Coursework

The following centers and programs are affiliated with the Department of Political Science. Many of them offer minors and/or certificates that complement a degree in political science.

The Bob Graham Center for Public Service

A community of students, scholars and politically engaged citizens devoted to enhanced citizenship; the training of current and future public and civic leaders who can identify problems and spearhead change; and the development of policy on issues of importance to Florida, the United States and the global community. The center offers a minor in public leadership (p. 920), an interdisciplinary program of study that provides students with the skills and knowledge critical to serving as effective and ethical public leaders.

The Center for African Studies

Promotes excellence in teaching and research on Africa in all disciplines at the University of Florida. In addition to undergraduate education, the center promotes and supports graduate studies as essential for the development of a continuing community of Africanist scholars. The center has over 100 affiliated teaching and research faculty in a variety of fields, including languages, the humanities, the social sciences, agriculture, business, engineering, education, fine arts, environmental studies and conservation, journalism, and law. The center offers an African studies minor (p. 525) that provides a multidisciplinary grounding in an important world area for those who want to pursue careers in a range of professions as well as for those who intend to go on to graduate school.

The Center for European Studies

Designed to assist in the development of area and language skills among students through fostering rich academic and cultural environments, including broad language and areas studies courses, degree options, and study abroad opportunities. It also fosters greater international awareness in the broader community through educational programs for state and local government, business organizations, K-12 students and teachers, the media and the general public. The center offers a

- European Union studies certificate (p. 689) and minor (p. 690), which are designed to give students the opportunity to gain European Union expertise through multidisciplinary coursework.
- East-Central European studies certificate (p. 677) and minor (p. 678), which give students the opportunity to study Eastern and Central Europe from an interdisciplinary perspective that incorporates both area and language studies.

The Center for Jewish Studies

Provides an undergraduate, interdepartmental curriculum that serves as a basis for understanding the broad spectrum of Jewish culture, religion, and civilization. The center offers both a major and minor (p. 833) through the College of Liberal Arts and Sciences. These may serve as preparation for graduate work in Jewish studies and the rabbinate, as background for a career in Jewish education or community service, or as an area of special interest which enriches the undergraduate experience.

The Center for Latin American Studies

Advances knowledge about Latin America and the Caribbean and enhances the scope and quality of Latin American studies at the University of Florida. The center administers an interdisciplinary graduate and undergraduate academic program in Latin American studies as well as a minor (p. 834) and certificate (p. 833).

The Center for Gender, Sexualities, and Women's Research
An interdisciplinary forum for the study of gender and sexualities, their intersections with race/ethnicity, class, and other sociocultural systems. The Center's core faculty members have expertise in gender, race/ethnicity, and sexualities/LGBTQ+ studies; feminist intersectional analysis; transnational and postcolonial feminist analysis; Chicana/o, Latina/o, Afro-Latino Studies, Haitian and Caribbean studies; and cultural and literary studies. They apply this expertise in the study of critical domains such as collective identity and activism, health and medicine, law and politics, immigration, work, leadership and business, history, literatures and cultures, media and art, and social movements. In addition, the Center has over 100 affiliate faculty members with wide-ranging expertise and course offerings. Besides the major (p. 970) in Women's Studies, students may pursue one of three minors: Women's Studies (p. 974), Theories and Politics of Sexuality (p. 970), and Health Disparities in Society (p. 780).

Combined Degree Program

The combined bachelor's/master's degree program is designed for superior students who have the ability to pursue an accelerated program in political science leading to the Master of Arts in political science. This program is not generally recommended for students considering a Ph.D. program in political science at UF. Admission to the combined degree program is highly competitive and therefore very limited numbers of students are approved for this program.

Students in the combined program may pursue the general M.A. in political science or certificates in public affairs or political campaigning. Up to 12 semester credits of approved graduate-level political science courses can be used as dual credit for both degrees. All other requirements for the bachelor's and the master's degrees must be satisfied. For more application process information, contact the undergraduate and graduate coordinators in the Department of Political Science.

Overseas Studies

Majors are encouraged to seek out opportunities for international study, during the summer or for the academic year. The credit generally will be applied toward the major and the degree. Contact the undergraduate coordinator about credit for study abroad. Visit the UF International Center in room 170 of the Hub for more information.

Relevant Minors and Certificates

International Relations Certificate

Political science and non-major students who are interested in international relations can pursue undergraduate training in two ways: through an interdisciplinary major in International Studies that includes courses on comparative politics and international relations or through a certificate in international relations. Credits earned toward the certificate also count toward the political science major. More information can be found under interdisciplinary studies majors listing and certificate programs.
More Info (p. 810)

Political Campaigning Certificate

The Department of Political Science offers a certificate in political campaigning to its undergraduate majors. The certificate is designed for students who may wish to consider pursuing careers in practical politics, including campaign management, lobbying, issue advocacy, and others. Credits earned toward the certificate also count toward the political science major. Additional information is available on the department website.
More Info (p. 885)

Public Affairs Certificate

The certificate in public affairs is designed for those students interested in a career in or near government. Students take courses in public administration, policy process, policy analysis and one or more substantive policy courses in foreign policy, education, health, immigration, civil rights, welfare, or environmental protection. Credits earned toward the certificate also count toward the political science major. The certificate is open to non-political science majors as well. Additional information is available on the department website.
More Info (p. 920)

Related Political Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Political Campaigning certificate (p. 885)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=451001&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 4 political science critical-tracking courses: CPO 2001, INR 2001, POS 2041, or POT 2002
- 2.0 UF GPA required

Semester 2

- Complete 1 additional political science critical-tracking course or STA 2023 with a 2.25 critical-tracking GPA
- 2.0 UF GPA required

Semester 3

- Complete 1 additional political science critical-tracking course or STA 2023 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 4

- Complete 3 of 4 political science critical-tracking courses and STA 2023 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete 1 additional political science course at the 3000 level or higher with a minimum grade of C and maintain a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

Because a large number of political science courses are approved for general education social and behavioral sciences, the plan below assumes students will take at least 9 credits of GE-S courses. Students should monitor their progress toward general education in their degree audit to ensure they meet the GE-S requirement.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one political science core course (**Critical Tracking**):		3
CPO 2001	Comparative Politics	
INR 2001	Introduction to International Relations	
POS 2041	American Federal Government	
POT 2002	Introduction to Political Theory	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Mathematics (p. 23)		3
Foreign language		4-5
	Credits	13-14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Political science core course (**Critical Tracking**)		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Foreign language		3-5
Elective		3
	Credits	16-18
Semester Three		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Elective		3
Elective or foreign language if 4-3-3 option		3
State Core Gen Ed Humanities (p. 23)		3

Political science core course (**Critical Tracking**)		3
	Credits	15
Semester Four		
Gen Ed Biological or Physical Sciences (area **not** taken in semester two)		3
Select one:		3
Elective		
State Core Gen Ed Social and Behavioral Sciences (p. 23) [1]		
Elective		3
Gen Ed Humanities		3
Gen Ed Physical Sciences		3
	Credits	15
Semester Five		
ENC 3254	Professional Writing in the Discipline (Gen Ed Composition; Writing Requirement)	3
Gen Ed Biological Sciences		3
Electives (3000 level or above, not in major) [2]		3
Political science courses (**Critical Tracking**; 3000/4000 level)		6
	Credits	15
Semester Six		
Select one:		1
POS 4934	Honors Preparation (department honors, optional)	
Elective		
Electives (3000 level or above, not in major) [2]		3
Electives		6
Political science courses (3000/4000 level)		6
	Credits	16
Semester Seven		
Select one:		3
POS 4734	Research Methods in Political Science (department honors, optional)	
Political science course (3000/4000-level)		
Elective		3
Electives (3000 level or above, not in major) [2]		6
Political science course (3000/4000 level)		3
	Credits	15
Semester Eight		
Select one:		2-4
Political science course		
POS 4970	Senior Thesis (department honors, optional)	
Electives		7
Electives (3000 level or above, not in major) [2]		6
	Credits	15-17
	Total Credits	120

1 If POS 2041 not taken previously.

2 Students are encouraged to use some electives to pursue a minor.

Academic Learning Compact

The major in political science provides an understanding of how government and politics operate in the U.S. and elsewhere. Students will develop the critical analytic and research skills to study government and politics and be able to articulate information and ideas about government and politics.

Before Graduating Students Must

- Complete 30 credits of political science coursework with minimum grades of C, including a minimum of 18 credits at the 3000/4000 levels.
- Complete an introductory statistics course.
- Complete two 3000/4000-level political science courses with a writing component, graded by department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define basic factual information and analytical concepts concerning political systems.

Critical Thinking

2. Analyze political issues and phenomena using political science concepts, theories and methods through internships and research projects.

Communication

3. Use argument and evidence effectively to communicate original analysis of political phenomena.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
CPO 2001	I	I	I
INR 2001	I	I	I
INR 3603	R	R	R
PAD 3003	R	R	R
PAD 4940	R, A	R, A	R, A
POS 2041	I	I	I
POS 3204	R	R	R
POS 4734	R, A	R, A	R, A
POS 4905	R, A	R, A	R, A
POS 4931	R, A	R, A	R, A
POS 4940	R, A	R, A	R, A
POS 4970	R, A	R, A	R, A
POT 2002	I	I	I

Assessment Types

- Research project
- Internship report
- Thesis

Portuguese

Hispanic and Latin American Languages, Literatures and Linguistics

Focusing on globalization, diversity, and public engagement, the Hispanic and Latin American Languages, Literatures and Linguistics major provides an interdisciplinary, multilingual approach to the study of Spanish- and Portuguese-speaking cultures drawing from a variety of contemporary perspectives on linguistics, literature, film, theatre, social service, and professions in health, law, business, education, and media.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** Spanish (p. 942) | Portuguese (p. 891) | Spanish and Portuguese (p. 790)
- **Credits for Degree:** 120
- **Contact**
- **Additional Information**
- **Related Hispanic and Latin American Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Hispanic and Latin American Languages, Literatures and Linguistics major offers the opportunity to gain proficiency in Spanish and/or Portuguese, two of the most important languages spoken in the United States, the Western Hemisphere and the world. The department offers courses

of study in language, culture, linguistics, and literature, as well as a series of courses in languages for the professions, which focus on medical, legal, business and other professional contexts.

By studying the literary and linguistic heritage of Spanish and Portuguese, students gain critical reading and writing skills that help them acquire and refine their abilities to speak, understand, read and write one of both of these languages.

The Spanish specialization focuses on the language and culture of Spain and Spanish-America, while the Portuguese specialization stresses the language and culture of Brazil, with complementary study of Portugal and Lusophone Africa. The combined specialization recognizes the increasingly prominent roles that Brazil, Spain and Latin America all play in international affairs, especially as they relate to Florida. Spanish- and Portuguese-speakers constitute the fastest growing immigrant populations in Florida. Studying both languages and cultures provide a competitive edge for those seeking careers in business, industry, tourism, health care, agricultural affairs, government, and education.

B.A. in Portuguese

The major requires 33 credits, beginning with foundational work in Portuguese and then moving on to more advanced coursework in language, culture and literature.

Students must earn minimum grades of C for coursework to count toward the major.
POR 3010 is an accelerated course for speakers of Spanish (or French). It fulfills the CLAS foreign language requirement but it does ***not*** *count as a 3000-level course for the major requirements.*

Required Coursework

- POR 3242
- 30 additional hours of POR or POW courses at the 3000 and 4000 levels.
  - A minimum of 12 credits must be at the 4000 level.
- Only one class in English (PRT) can count towards the major, substituting for POR/POW.
- Classes must be passed with a grade of C or better in order to be counted for the major.
- Two Individual Work courses (POW 4905) may be accepted as part of the major's requirements.
- Select courses outside the department may also count toward the major under special conditions.

Recommended Coursework

These courses are recommended to enhance students' overall understanding and appreciation of Portuguese-speaking people and their culture.

Code	Title	Credits
ANT 4336	The Peoples of Brazil	3
LAH 4630	Brazil after 1750	3
LAS 2001	Introduction to Latin American Studies	3
MUH 3541	Latin American Music	3

Humanities, arts, and social science courses that relate to the Portuguese-speaking world

Overseas Study

The university sponsors a reasonably priced summer B program in Rio de Janeiro, Brazil. Majors and minors are encouraged to participate at the 3000/4000 level, where they will earn six credits. The program also fulfills the summer residency requirement.

Placement

See the undergraduate coordinator for placement information, especially for transfer students and heritage speakers.

Relevant Minors and/or Certificates

Majors may want to pursue a certificate in Latin American Studies.

Research

Students who wish to complete a senior thesis for honors should consult Portuguese faculty at least two semesters in advance of graduation.

Related Hispanic and Latin American Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Spanish (p. 942)
- Bachelor of Arts in Spanish and Portuguese (p. 790)

- Portuguese minor (p. 895)
- Spanish minor (p. 947)
- Spanish for the Professions certificate (p. 947)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160904&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete POR 1130
- 2.0 UF GPA required

Semester 4

- Complete POR 1131
- 2.0 UF GPA required

Semester 5

- Complete POR 3242 and one additional Portuguese course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		5
POR 1130	Beginning Portuguese 1 (**Critical Tracking**)	
POR 3010	Introduction to Portuguese and Brazil: Accelerated (**Critical Tracking**) [1]	
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
POR 1131	Beginning Portuguese 2 (**Critical Tracking**)	5
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Gen Ed Mathematics		3
	Credits	14

Semester Three		
POR 3242	Oral and Written Practice (**Critical Tracking**; recommended; or other POR or POW or PRT 3000/4000-level course)	3
POR or POW or PRT 3000/4000-level course (**Critical Tracking**)		3
Gen Ed Biological or Physical Sciences (area **not** taken in semester one)		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Four		
POR 3243	Composition and Conversation (recommended; or other POR or POW or PRT 3000/4000-level course)	3
POR or POW or PRT 3000/4000-level course		3
Elective (3000 level and above, not in major)		3
Gen Ed Humanities		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
POR or POW or PRT 3000/4000-level course		3
Gen Ed Composition; Writing Requirement		3
Electives		6
Gen Ed Physical Sciences		3
Select one science laboratory (Gen Ed Physical or Biological Sciences)		1
	Credits	16
Semester Six		
POR or POW or PRT 4000-level course		3
Gen Ed Biological Sciences		3
Elective (3000 level and above, not in major)		3
Electives		6
	Credits	15
Semester Seven		
POR or POW or PRT 3000/4000-level course		3
POR or POW or PRT 4000-level course		3
Electives		7
Elective (3000 level or above, not in major)		3
	Credits	16
Semester Eight		
POR or POW or PRT 4000-level courses		6
Electives (3000 level or above, not in major)		9
	Credits	15
	Total Credits	120

[1] POR 3010 may be offered in the Fall, Spring, or Summer A terms and satisfies the CLAS language requirement.

Academic Learning Compact

The Bachelor of Arts in Hispanic and Latin American Languages, Literatures and Linguistics enables students to achieve communicative competence in Spanish and/or Portuguese, with an emphasis on all four language skills: speaking, comprehension, reading, and writing. Students will become knowledgeable in the areas of Hispanic and Lusophone cultures, literatures and/or linguistics, and they will learn how to interpret Spanish- and/or Portuguese language texts according to their cultural, literary and linguistic content.

Before Graduating Students Must

- Complete all requirements for the baccalaureate degree, as determined by faculty.
- Satisfactorily complete a written assignment in a 4000-level course that includes the written analysis of a text according to its cultural, literary and/or linguistic content. The text analyzed and the analysis will be in Spanish/Portuguese.
- Satisfactorily deliver an oral presentation in Spanish/Portuguese on the topic of the written paper. Presentation will include answering questions from audience members.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify cultural correlates, literary production and/or linguistic structure of texts written in Spanish and/or Portuguese.

Critical Thinking

2. Analyze cultural correlates, literary production and/or linguistic structure of texts written in Spanish and/or Portuguese.

Communication

3. Demonstrate competence in written Spanish and/or Portuguese, including knowledge of grammar, vocabulary, orthography and appropriate stylistic conventions.
4. Demonstrate communicative competence in spoken Spanish and/or Portuguese, including the ability to understand the spoken language, speak with correct grammar, vocabulary and pronunciation, and use appropriate registers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
SPN 2240; POR 3224	I	I	I	I
SPN 3300; POR 3242	R	R	R	R
SPN 3510/SPN 3520; POR 3500/POR 3502	I, R	I, R	I, R	I, R
SPN 3700; POR 3701	I, R	I, R	I, R	I, R
SPW 3030/SPW 3031/ SPW 3100/SPW 3101	I, R	I, R	I, R	I, R
SPN or POR course, 4000 level	R, A	R, A	R, A	R, A
SPW or POW course, 4000 level	R, A	R, A	R, A	R, A

Assessment Types

- Written paper
- Oral presentation/discussion

Portuguese Minor

The Portuguese minor offers excellent career preparation for a wide variety of fields, including tourism, business, journalism, telecommunications, law, health fields, and education.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C and no optional S-U
- **Related Portuguese Programs**

To earn a minor in Portuguese, students must complete 15 credits of coursework at the 3000/4000 level with a POR/POW/PRT prefix. Two of the courses must be taken at the 4000 level.

Students cannot apply POR 3010 toward the minor.

A minimum of nine credits must be completed at UF. Students can apply up to three credits of POW 4905 toward the minor and they must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
POR, POW, or PRT courses (3000/4000 level; at least two must be 4000 level)		15
Total Credits		15

Related Portuguese Programs

- Bachelor of Arts in Portuguese (p. 891)

Psychology

Psychology is the science of human and animal behavior. Psychology majors receive a broad science-based liberal arts education. As a result, those with a Bachelor of Science in psychology are widely sought in business, education, and mental health fields. For a professional career in psychology, a graduate degree is needed.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Specializations:** General Psychology (p. 909) | Behavior Analysis (p. 899) | Behavioral and Cognitive Neuroscience (p. 903)
- **Credits for Degree:** 120
- **Contact:** Email (psych-advising@ufl.edu?Subject=Psychology Major)
- **Additional Information**
- **Related Psychology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The psychology curriculum at UF provides a strong background to pursue careers in psychology or to prepare students for entry into advanced professional schools such as law or medicine. The curriculum emphasizes the principles and applications of psychological knowledge, both as a natural science and as a social science.

Students in the psychology major can specialize in general psychology or behavioral and cognitive neuroscience. Both specializations require coursework in psychology, statistics, mathematics, and biology, and both offer the option to conduct a senior honors thesis if desired. The specializations vary in the specific courses necessary to complete the degree requirements. General psychology requires courses in four core areas within the discipline as well as elective psychology courses. Behavioral and cognitive neuroscience focuses more specifically on natural science-oriented psychology courses and allows students to take limited approved non-psychology courses relevant to contemporary neuroscience. This specialization also requires more math and biology courses than general psychology.

Coursework for the Major

A psychology major consists of a minimum of 36 credits with related coursework in biological science, mathematics, and statistics. At least 18 of the 36 credits must be taken at the University of Florida. Courses used toward the major must be earned with minimum grades of C.

Required Coursework

Required coursework will depend on the program the student chooses. Coursework for each specialization can be found below.

Recommended Coursework

More Info (http://www.psych.ufl.edu/~undergrad)

In addition to regularly scheduled courses, the department offers six individual work courses:

Code	Title	Credits
Research		
PCO 4911	Undergraduate Research in Psychology of Health Disparities	3
PSY 4911	Undergraduate Research in Psychology	3
PSY 4905	Individual Work	1-3
PSY 4970	Senior Thesis	1-3
Teaching		
PSY 4940	Introduction to Teaching in Psychology	3
Community Work		
PSY 4949	Community Work in Psychology	1-3

In each case, a psychology faculty member or other approved professional serves as supervisor. A maximum of nine credits of individual work courses from the following can count toward the major.

Code	Title	Credits
CLP 3911	Introduction to Clinical Research	1-3
PCO 4911	Undergraduate Research in Psychology of Health Disparities	3
PSY 4911	Undergraduate Research in Psychology	0-3
PSY 4905	Individual Work	1-3
PSY 4940	Introduction to Teaching in Psychology	3
PSY 4949	Community Work in Psychology	1-3
PSY 4970	Senior Thesis	1-3

Research

More Info (http://www.psych.ufl.edu/~undergrad)

Research in psychology means asking questions about behavior, designing and running experiments and collecting data regarding those questions, analyzing and interpreting the results, and communicating these results to colleagues. Developing research skills is encouraged, especially if students anticipate graduate school in psychology or in other professional areas.

Related Psychology Programs

- Bachelor of Arts in Psychology, UF Online (p. 915)

Academic Learning Compact

The Bachelor of Science in psychology enables students to achieve a high level of proficiency in the science of psychology, including the core natural and social science areas of psychology. Laboratory courses emphasize students' understanding of the design, analysis and critical interpretation of psychological research. Students will also refine their core knowledge and understanding of psychological research with advanced coursework in statistics, biology and mathematics.

Before Graduating Students Must

- Demonstrate satisfactory (minimum grade of C) performance on exams, papers and other coursework for six credits in core psychology natural sciences (course prefixes CBH, EAB, EXP and PSB), six credits of core psychology social sciences (course prefixes CLP, DEP, SOP and PPE) and three or four credits of psychological research methodology, design and analysis, as graded by department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Critical knowledge of basic and applied aspects of core natural science areas within psychology as well as core social science areas within psychology.
2. Knowledge of the design, analysis and interpretation of psychological research.

Critical Thinking

3. Review, interpret and analyze the literature in psychological science.

Communication

4. Clearly and effectively present ideas in speech and in writing that contribute to the dissemination of advances in research in psychological science.

Curriculum Map

All courses available to students are listed in the table; however, students choose six credits in core psychology natural sciences, six credits of core psychology social sciences and three-to-four credits in psychological research methodology, design and analysis.

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
DEP 4115	R			
DEP 4163	R			
DEP 4305	R			
DEP 4464	R			
DEP 4930	R			
EAB 4184	R			
EAB 4704	R			

EXP 4504	R			
PCO 3320	R			
PCO 4104	R			
PCO 4272	R			
PCO 4930	R			
PSB 3842	R			
PSB 4240	R			
PSB 4342	R			
PSB 4434	R			
PSB 4504	R			
PSB 4654	R			
PSB 4810	R			
PSB 4823	R			
PSB 4934	R			
PSY 3220		R	R	R
PSY 3443	R			
PSY 4604	R	R	R	
PSY 4930	R			
SOP 3842	R			
SOP 4444	R			
SOP 4504	R			
SOP 4704	R			
STA 3024		I, R		
Natural Sciences				
CBH 3003	I, R, A			
EAB 3002	I, R, A			
EAB 3764	I, R, A			
EXP 3104	I, R, A			
EXP 3604	I, R, A			
PSB 3002	I, R, A			
PSB 3340	I, R, A			
Social Sciences				
CLP 3144	I, R, A			
DEP 3053	I, R, A			
PPE 3003	I, R, A			
SOP 3004	I, R, A			
Laboratories				
DEP 4704C		I, R, A	I, R, A	I, R, A
EAB 4022C		I, R, A	I, R, A	I, R, A
EAB 4714C		I, R, A	I, R, A	I, R, A
EXP 4174C		I, R, A	I, R, A	I, R, A
EXP 4934C		I, R, A	I, R, A	I, R, A
PPE 4324C		I, R, A	I, R, A	I, R, A
PSY 3213L		I, R, A	I, R, A	I, R, A
SOP 4214C		I, R, A	I, R, A	I, R, A
Individual work in research, teaching, or community service				
PSY 3912		R	R	R
PSY 4905	R			
PSY 4940	R			

PSY 4949	R			
PSY 4970		R	R	R

Assessment Types

- Exams
- Papers

Psychology | Behavior Analysis

Psychology is the science of human and animal behavior. Psychology majors receive a broad science-based liberal arts education. As a result, those with a Bachelor of Science in psychology are widely sought in business, education, and mental health fields. For a professional career in psychology, a graduate degree is needed.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Specializations:** General Psychology (p. 909) | Behavior Analysis (p. 899) | Behavioral and Cognitive Neuroscience (p. 903)
- **Credits for Degree:** 120
- **Contact:** Email (psych-advising@ufl.edu?Subject=Psychology Major)
- **Additional Information**
- **Related Psychology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Required Coursework

Students in the behavior analysis specialization are required to complete 36 credits of psychology coursework with minimum grades of C. At least 30 of the 36 credits must be at the 3000-level or above.

- 3 credits, introductory level: PSY 2012 (or equivalent, such as a general psychology course taken elsewhere or credit by exam for PSY 2012 via AP, IB, AICE).
- 12 credits, behavior analysis courses:
    - EAB 3002
    - EAB 3764
    - EAB 4184
    - EAB 4930
- 3 credits, laboratory course: PSY 3213L
- 4 credits, laboratory course: EAB 4714C
- 14 credits additional psychology courses: Students must choose additional 3000/4000-level psychology courses to meet the 36-credit minimum requirement (with the exception that three credits of 2000-level courses can count toward this requirement). In addition, up to nine credits of individual work courses will count toward the 36-credit minimum requirement. Students can also take designated courses in the Women's Studies as part of the 14 elective credits (WST 3323, WST 3371, WST 4704).

Students who wish to transfer courses in psychology toward the major must see an advisor in the department for approval.

Related Coursework

Statistics

STA 2023 and STA 3024 are also required. STA 2023 is a prerequisite for some 4000-level psychology and laboratory courses. STA 3024 must be taken before or concurrently with any specialized psychology laboratory, and it also counts toward the CLAS requirement of 3000-level electives not in the major.

Mathematics

Proficiency through precalculus is required. MAC 1147 (or higher course) will meet this requirement. The combination of MAC 1114 and MAC 1140 may be substituted for MAC 1147.

Biological Science

BSC 2005 or BSC 2010 is required.

All majors are encouraged to see a psychology advisor in 135 Psychology Building. No appointments are necessary and walk-ins are welcome. Advising office hours (http://www.psych.ufl.edu/%7EUndergrad)

Most of the foundation-level courses and the laboratory methods course are offered each semester. Special topic and other advanced courses are offered less frequently. Fewer courses are offered in summer.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=420101&track=01) may be used for transfer students.

The following critical-tracking courses are required:

- BSC 2005 or BSC 2010
- MAC 1147 or MAC 1140 and MAC 1114
- PSY 2012
- PSY 3213L
- STA 2023

Although not required in the first five semesters, additional psychology courses taken in semesters 1-5 count toward the critical-tracking GPA for the major.

Semester 1

- Complete MAC 1140 or MAC 1147
- 2.4 UF GPA required

Semester 2

- Complete PSY 2012; if MAC 1140 is taken in semester 1, MAC 1114 must be taken semester 2
- 2.6 UF GPA required

Semester 3

- Complete 2 critical-tracking courses from BSC 2005 or BSC 2010, STA 2023 or PSY 3213L with a 2.6 critical-tracking GPA
  Students should take PSY 3213L in semester 3 or 4 before taking any additional 3000-level or above psychology courses.
- 2.7 UF GPA required

Semester 4

- Complete BSC 2005 or BSC 2010 and STA 2023 (if not previously taken) with a 2.75 critical-tracking GPA
- 2.8 UF GPA required

Semester 5

- Complete PSY 3213L (if not previously taken) with 2.75 critical-tracking GPA. Additional Psychology courses taken in semesters 1-5 are included in the critical-tracking GPA.
- 2.8 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Gen Ed Physical Sciences		3
Foreign language		4-5
	Credits	14-15
Semester Two		
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Humanities (p. 23)		3
Foreign language		3-5
Elective		3
	Credits	15-17
Semester Three		
Select one:		3
BSC 2005	Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological Sciences)	
BSC 2010	Integrated Principles of Biology 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences)	
Select one Behavior Analysis course:		3
EAB 3002	Principles of Behavior Analysis	
EAB 3764	Applied Behavior Analysis	
PSY 3213L	Laboratory Methods in Psychology (**Critical Tracking**)	3
Gen Ed Humanities		3
Electives (3 credits of foreign language if 4-3-3 option)		3
	Credits	15
Semester Four		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Select one Behavior Analysis course:		3
EAB 3002	Principles of Behavior Analysis	
EAB 3764	Applied Behavior Analysis	
Gen Ed Physical Sciences		3
Psychology elective		3
Elective		3
	Credits	15
Semester Five		
Select one Behavior Analysis course:		3-4
EAB 4714C	Laboratory in Applied Behavior Analysis	
EAB 4184	Behaviorism and Contemporary Society	
Gen Ed Composition; Writing Requirement		3
Psychology elective		3
Electives		7
	Credits	16-17
Semester Six		
Select one Behavior Analysis course:		3-4
EAB 4714C	Laboratory in Applied Behavior Analysis	
EAB 4184	Behaviorism and Contemporary Society	
STA 3024	Introduction to Statistics 2 (Gen Ed Mathematics; counts as a 3000-level or above elective, not in the major)	3
Psychology elective		3
Electives (3000 level or above, not in major)		6
	Credits	15-16
Semester Seven		
EAB 4930	Advanced Seminar in Behavior Analysis (Behavior Analysis course)	3
Psychology electives		6
Electives (3000 level or above, not in major)		6
	Credits	15
Semester Eight		
EAB 4930	Advanced Seminar in Behavior Analysis (Behavior Analysis course)	3
Psychology elective		3

Elective (3000 level or above, not in major)		3
Electives		6
	Credits	15
	Total Credits	120

Academic Learning Compact

The Bachelor of Science in psychology enables students to achieve a high level of proficiency in the science of psychology, including the core natural and social science areas of psychology. Laboratory courses emphasize students' understanding of the design, analysis and critical interpretation of psychological research. Students will also refine their core knowledge and understanding of psychological research with advanced coursework in statistics, biology and mathematics.

Before Graduating Students Must

- Demonstrate satisfactory (minimum grade of C) performance on exams, papers and other coursework for six credits in core psychology natural sciences (course prefixes CBH, EAB, EXP and PSB), six credits of core psychology social sciences (course prefixes CLP, DEP, SOP and PPE) and three or four credits of psychological research methodology, design and analysis, as graded by department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Critical knowledge of basic and applied aspects of core natural science areas within psychology as well as core social science areas within psychology.
2. Knowledge of the design, analysis and interpretation of psychological research.

Critical Thinking

1. Review, interpret and analyze the literature in psychological science.

Communication

1. Clearly and effectively present ideas in speech and in writing that contribute to the dissemination of advances in research in psychological science.

Curriculum Map

All courses available to students are listed in the table; however, students choose six credits in core psychology natural sciences, six credits of core psychology social sciences and three-to-four credits in psychological research methodology, design and analysis.

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
DEP 4115	R			
DEP 4163	R			
DEP 4305	R			
DEP 4464	R			
DEP 4930	R			
EAB 4184	R			
EAB 4704	R			
EXP 4504	R			
PCO 3320	R			
PCO 4104	R			
PCO 4272	R			
PCO 4930	R			
PSB 3842	R			
PSB 4240	R			
PSB 4342	R			
PSB 4434	R			
PSB 4504	R			
PSB 4654	R			

PSB 4810	R			
PSB 4823	R			
PSB 4934	R			
PSY 3220		R	R	R
PSY 3443	R			
PSY 4604	R	R	R	
PSY 4930	R			
SOP 3842	R			
SOP 4444	R			
SOP 4504	R			
SOP 4704	R			
STA 3024		I, R		
Natural Sciences				
CBH 3003	I, R, A			
EAB 3002	I, R, A			
EAB 3764	I, R, A			
EXP 3104	I, R, A			
EXP 3604	I, R, A			
PSB 3002	I, R, A			
PSB 3340	I, R, A			
Social Sciences				
CLP 3144	I, R, A			
DEP 3053	I, R, A			
PPE 3003	I, R, A			
SOP 3004	I, R, A			
Laboratories				
DEP 4704C		I, R, A	I, R, A	I, R, A
EAB 4022C		I, R, A	I, R, A	I, R, A
EAB 4714C		I, R, A	I, R, A	I, R, A
EXP 4174C		I, R, A	I, R, A	I, R, A
EXP 4934C		I, R, A	I, R, A	I, R, A
PPE 4324C		I, R, A	I, R, A	I, R, A
PSY 3213L		I, R, A	I, R, A	I, R, A
SOP 4214C		I, R, A	I, R, A	I, R, A
Individual work in research, teaching, or community service				
PSY 3912		R	R	R
PSY 4905	R			
PSY 4940	R			
PSY 4949	R			
PSY 4970		R	R	R

Assessment Types

- Exams
- Papers

Psychology | Behavioral and Cognitive Neuroscience

Psychology is the science of human and animal behavior. Psychology majors receive a broad science-based liberal arts education. As a result, those with a Bachelor of Science in psychology are widely sought in business, education, and mental health fields. For a professional career in psychology, a graduate degree is needed.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Specializations:** General Psychology (p. 909) | Behavior Analysis (p. 899) | Behavioral and Cognitive Neuroscience (p. 903)
- **Credits for Degree:** 120
- **Contact:** Email (psych-advising@ufl.edu?Subject=Psychology Major)
- **Additional Information**
- **Related Psychology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The psychology curriculum at UF provides a strong background to pursue careers in psychology or to prepare students for entry into advanced professional schools such as law or medicine. The curriculum emphasizes the principles and applications of psychological knowledge, both as a natural science and as a social science.

Students in the psychology major can specialize in general psychology or behavioral and cognitive neuroscience. Both specializations require coursework in psychology, statistics, mathematics, and biology, and both offer the option to conduct a senior honors thesis if desired. The specializations vary in the specific courses necessary to complete the degree requirements. General psychology requires courses in four core areas within the discipline as well as elective psychology courses. Behavioral and cognitive neuroscience focuses more specifically on natural science-oriented psychology courses and allows students to take limited approved non-psychology courses relevant to contemporary neuroscience. This specialization also requires more math and biology courses than general psychology.

Coursework for the Major

A psychology major consists of a minimum of 36 credits with related coursework in biological science, mathematics, and statistics. At least 18 of the 36 credits must be taken at the University of Florida. Courses used toward the major must be earned with minimum grades of C.

Required Coursework

Required coursework will depend on the program the student chooses. Coursework for each specialization can be found below.

Recommended Coursework

More Info (http://www.psych.ufl.edu/~undergrad)

In addition to regularly scheduled courses, the department offers six individual work courses:

Code	Title	Credits
Research		
PCO 4911	Undergraduate Research in Psychology of Health Disparities	3
PSY 4911	Undergraduate Research in Psychology	3
PSY 4905	Individual Work	1-3
PSY 4970	Senior Thesis	1-3
Teaching		
PSY 4940	Introduction to Teaching in Psychology	3
Community Work		
PSY 4949	Community Work in Psychology	1-3

In each case, a psychology faculty member or other approved professional serves as supervisor. A maximum of nine credits of individual work courses from the following can count toward the major:

Code	Title	Credits
CLP 3911	Introduction to Clinical Research	1-3
PCO 4911	Undergraduate Research in Psychology of Health Disparities	3
PSY 4911	Undergraduate Research in Psychology	0-3
PSY 4905	Individual Work	1-3
PSY 4940	Introduction to Teaching in Psychology	3
PSY 4949	Community Work in Psychology	1-3
PSY 4970	Senior Thesis	1-3

Research

More Info (http://www.psych.ufl.edu/~undergrad)

Research in psychology means asking questions about behavior, designing and running experiments and collecting data regarding those questions, analyzing and interpreting the results, and communicating these results to colleagues. Developing research skills is encouraged, especially if students anticipate graduate school in psychology or in other professional areas.

Related Psychology Programs

- Bachelor of Arts in Psychology, UF Online (p. 915)

Behavioral and Cognitive Neuroscience

Required Coursework

Students in the behavioral and cognitive neuroscience specialization are required to complete 36 credits of coursework with minimum grades of C. At least 22 credits must be taken in psychology.

Code	Title	Credits
Introductory level		
PSY 2012	General Psychology (or its equivalent, such as a general psychology course taken elsewhere or credit by exam for this course via AP, IB, AICE, etc.)	3
Foundation core		
Each is an introduction to the substantive areas of behavioral and cognitive neuroscience. Select one course from each area:		6
Biological Bases		
PSB 3340	Behavioral Neuroscience	
Learning and Cognition		
EXP 3604	Cognitive Psychology	
Laboratory courses		
PSY 3213L	Laboratory Methods in Psychology	3
Select one specialized psychology laboratory course:		4
EAB 4714C	Laboratory in Applied Behavior Analysis	
EXP 4174C	Laboratory in Sensory Processes	
PSB 4343C	Laboratory in Cognitive Neuroscience	
PSY 4905	Individual Work	
Psychology courses		
4000-level psychology courses with a PSB or EXP prefix or approval of the undergraduate coordinator. These courses must be taken in addition to the required laboratory course and individual work courses.		6
Additional courses		
Psychology courses or approved neuroscience-relevant courses outside psychology to meet the 36- credit minimum requirement [1]		14
Total Credits		36

[1]
- 3 credits may be at the 2000 level or higher
- The remaining 11 or more credits must be at the 3000/4000 level
- Any neuroscience-relevant courses outside psychology must be approved by a psychology advisor before enrollment
  Students may not take both PSB 3002 and PSB 3340 under any circumstances.

Students who wish to transfer courses in psychology toward the major *must* see an advisor in the department for approval.

Related Coursework

Statistics

STA 2023 and STA 3024 are also required. STA 2023 is a prerequisite for some 4000-level psychology and laboratory courses. STA 3024 must be taken before or concurrently with any specialized psychology laboratory, and it counts as a 3000+ level elective not in the major.

Mathematics

Proficiency is required. MAC 2311 meets this requirement.

Biological Science

BSC 2010 and BSC 2011 are required.

All majors are encouraged to see a psychology advisor in 135 Psychology Building. No appointments are necessary and walk-ins are welcome.

Most of the foundation-level courses and the laboratory methods course are offered each semester. Special topic and other advanced courses are offered less frequently. Fewer courses are offered in summer.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=420101&track=01) may be used for transfer students.

These critical-tracking courses are required: BSC 2010, MAC 2311, PSY 2012, PSY 3213L, PSB 3340, and STA 2023.

Although not required in the first five semesters, additional psychology courses taken in semesters 1-5 count toward the critical-tracking GPA for the major.

Semester 1

- Complete MAC 1147 or MAC 2311
- 2.4 UF GPA required

Semester 2

- Complete MAC 2311
- Complete PSY 2012
- 2.6 UF GPA required

Semester 3

- Complete 2 of the following critical-tracking courses with a 2.6 critical-tracking GPA: BSC 2010, PSB 3340, or PSY 3213L
  Students should take PSY 3213L **in semester 3 or 4 before taking any additional 3000-level or above psychology courses.**
- 2.7 UF GPA required

Semester 4

- Complete 1 tracking course from BSC 2010, PSB 3340, PSY 3213L or STA 2023 with a 2.75 critical-tracking GPA
- 2.8 UF GPA required

Semester 5

- Complete the final tracking course (BSC 2010, PSB 3340, PSY 3213L or STA 2023) with a 2.75 critical-tracking GPA. Additional psychology courses taken in semesters 1-5 are included in the critical-tracking GPA.
- 2.8 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S). STA 3024 and approved 3000 level or above neuroscience-relevant courses outside the psychology department may count towards the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	4
Gen Ed Physical Sciences		3
Foreign language		4-5
	Credits	14-15
Semester Two		
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3

State Core Gen Ed Humanities (p. 23)		3
Gen Ed Physical Sciences		3
Foreign language		3-5
	Credits	15-17
Semester Three		
BSC 2010	Integrated Principles of Biology 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences)	3
PSB 3340	Behavioral Neuroscience (**Critical Tracking**)	3
PSY 3213L	Laboratory Methods in Psychology (**Critical Tracking**)	3
Gen Ed Humanities		3
Elective (3 credits of foreign language if 4-3-3 option)		3
	Credits	15
Semester Four		
BSC 2011	Integrated Principles of Biology 2 (Gen Ed Biological Sciences)	3
EXP 3604	Cognitive Psychology (Gen Ed Social and Behavioral Sciences)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Physical Sciences		3
Elective		3
	Credits	15
Semester Five		
STA 3024	Introduction to Statistics 2 (Gen Ed Mathematics) [2]	3
Psychology course (3000-level or above)		3
Approved neuroscience-relevant course outside psychology		3
Electives		6
	Credits	15
Semester Six		
Select one:		3
Approved neuroscience-relevant course outside psychology		
Psychology course (Gen Ed Social and Behavioral Sciences; 3000 level or above)		
Gen Ed Composition; Writing Requirement		3
Electives (3000 level or above, not in major)		6
Psychology course (PSB or EXP prefix; 4000 level)		3
	Credits	15
Semester Seven		
Select one specialized psychology laboratory elective:		4
EAB 4714C	Laboratory in Applied Behavior Analysis	
EXP 4174C	Laboratory in Sensory Processes	
PSB 4343C	Laboratory in Cognitive Neuroscience	
PSY 4905	Individual Work	
Psychology course (PSB or EXP prefix; 4000 level)		3
Electives (3000 level or above, not in major)		6
Elective		3
	Credits	16
Semester Eight		
Select 8 credits:		8
Approved neuroscience-relevant course outside psychology		
Psychology courses (3000 level or above)		
Elective (3000 level or above, not in major)		3
Elective		3
	Credits	14
	Total Credits	119-122

1 Take MAC 1147, if needed.

2 Counts as a 3000-level or above elective, not in the major.

Academic Learning Compact

The Bachelor of Science in psychology enables students to achieve a high level of proficiency in the science of psychology, including the core natural and social science areas of psychology. Laboratory courses emphasize students' understanding of the design, analysis and critical interpretation of psychological research. Students will also refine their core knowledge and understanding of psychological research with advanced coursework in statistics, biology and mathematics.

Before Graduating Students Must

- Demonstrate satisfactory (minimum grade of C) performance on exams, papers and other coursework for six credits in core psychology natural sciences (course prefixes CBH, EAB, EXP and PSB), six credits of core psychology social sciences (course prefixes CLP, DEP, SOP and PPE) and three or four credits of psychological research methodology, design and analysis, as graded by department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Critical knowledge of basic and applied aspects of core natural science areas within psychology as well as core social science areas within psychology.
2. Knowledge of the design, analysis and interpretation of psychological research.

Critical Thinking

3. Review, interpret and analyze the literature in psychological science.

Communication

4. Clearly and effectively present ideas in speech and in writing that contribute to the dissemination of advances in research in psychological science.

Curriculum Map

All courses available to students are listed in the table; however, students choose six credits in core psychology natural sciences, six credits of core psychology social sciences and three-to-four credits in psychological research methodology, design and analysis.

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
DEP 4115	R			
DEP 4163	R			
DEP 4305	R			
DEP 4464	R			
DEP 4930	R			
EAB 4184	R			
EAB 4704	R			
EXP 4504	R			
PCO 3320	R			
PCO 4104	R			
PCO 4272	R			
PCO 4930	R			
PSB 3842	R			
PSB 4240	R			
PSB 4342	R			
PSB 4434	R			
PSB 4504	R			
PSB 4654	R			
PSB 4810	R			
PSB 4823	R			
PSB 4934	R			
PSY 3220		R	R	R
PSY 3443	R			
PSY 4604	R	R	R	
PSY 4930	R			
SOP 3842	R			
SOP 4444	R			
SOP 4504	R			

SOP 4704	R			
STA 3024		I, R		
Natural Sciences				
CBH 3003	I, R, A			
EAB 3002	I, R, A			
EAB 3764	I, R, A			
EXP 3104	I, R, A			
EXP 3604	I, R, A			
PSB 3002	I, R, A			
PSB 3340	I, R, A			
Social Sciences				
CLP 3144	I, R, A			
DEP 3053	I, R, A			
PPE 3003	I, R, A			
SOP 3004	I, R, A			
Laboratories				
DEP 4704C		I, R, A	I, R, A	I, R, A
EAB 4022C		I, R, A	I, R, A	I, R, A
EAB 4714C		I, R, A	I, R, A	I, R, A
EXP 4174C		I, R, A	I, R, A	I, R, A
EXP 4934C		I, R, A	I, R, A	I, R, A
PPE 4324C		I, R, A	I, R, A	I, R, A
PSY 3213L		I, R, A	I, R, A	I, R, A
SOP 4214C		I, R, A	I, R, A	I, R, A
Individual work in research, teaching, or community service				
PSY 3912		R	R	R
PSY 4905	R			
PSY 4940	R			
PSY 4949	R			
PSY 4970		R	R	R

Assessment Types

- Exams
- Papers

Psychology | General Psychology

Psychology is the science of human and animal behavior. Psychology majors receive a broad science-based liberal arts education. As a result, those with a Bachelor of Science in psychology are widely sought in business, education, and mental health fields. For a professional career in psychology, a graduate degree is needed.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Specializations:** General Psychology (p. 909) | Behavior Analysis (p. 899) | Behavioral and Cognitive Neuroscience (p. 903)
- **Credits for Degree:** 120
- **Contact:** Email (psych-advising@ufl.edu?Subject=Psychology Major)
- **Additional Information**
- **Related Psychology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The psychology curriculum at UF provides a strong background to pursue careers in psychology or to prepare students for entry into advanced professional schools such as law or medicine. The curriculum emphasizes the principles and applications of psychological knowledge, both as a natural science and as a social science.

Students in the psychology major can specialize in general psychology or behavioral and cognitive neuroscience. Both specializations require coursework in psychology, statistics, mathematics, and biology, and both offer the option to conduct a senior honors thesis if desired. The specializations vary in the specific courses necessary to complete the degree requirements. General psychology requires courses in four core areas within the discipline as well as elective psychology courses. Behavioral and cognitive neuroscience focuses more specifically on natural science-oriented psychology courses and allows students to take limited approved non-psychology courses relevant to contemporary neuroscience. This specialization also requires more math and biology courses than general psychology.

Coursework for the Major

A psychology major consists of a minimum of 36 credits with related coursework in biological science, mathematics, and statistics. At least 18 of the 36 credits must be taken at the University of Florida. Courses used toward the major must be earned with minimum grades of C.

Required Coursework

Required coursework will depend on the program the student chooses. Coursework for each specialization can be found below.

Recommended Coursework

More Info (http://www.psych.ufl.edu/~undergrad)

In addition to regularly scheduled courses, the department offers six individual work courses:

Code	Title	Credits
Research		
PCO 4911	Undergraduate Research in Psychology of Health Disparities	3
PSY 4911	Undergraduate Research in Psychology	3
PSY 4905	Individual Work	1-3
PSY 4970	Senior Thesis	1-3
Teaching		
PSY 4940	Introduction to Teaching in Psychology	3
Community Work		
PSY 4949	Community Work in Psychology	1-3

In each case, a psychology faculty member or other approved professional serves as supervisor. A maximum of nine credits of individual work courses from the following can count toward the major:

Code	Title	Credits
CLP 3911	Introduction to Clinical Research	1-3
PCO 4911	Undergraduate Research in Psychology of Health Disparities	3
PSY 4911	Undergraduate Research in Psychology	0-3
PSY 4905	Individual Work	1-3
PSY 4940	Introduction to Teaching in Psychology	3
PSY 4949	Community Work in Psychology	1-3
PSY 4970	Senior Thesis	1-3

Research

More Info (http://www.psych.ufl.edu/~undergrad)

Research in psychology means asking questions about behavior, designing and running experiments and collecting data regarding those questions, analyzing and interpreting the results, and communicating these results to colleagues. Developing research skills is encouraged, especially if students anticipate graduate school in psychology or in other professional areas.

Related Psychology Programs

- Bachelor of Arts in Psychology, UF Online (p. 915)

General Psychology

Required Coursework

Students in the general psychology specialization are required to complete 36 credits of psychology coursework with minimum grades of C. At least 30 of the 36 credits must be at the 3000-level or above.

Code	Title	Credits
Introductory level		
PSY 2012	General Psychology (or equivalent, such as a general psychology course taken elsewhere or credit by exam for this course via AP, IB, AICE.)	3
Foundation level core		
Each of the four foundation areas is an introduction to a substantive area of psychology. Select at least one course from each:		12
Biological Bases		
CBH 3003	Comparative Psychology	
EXP 3104	Sensory Processes	
PSB 3002	Physiological Psychology [1]	
PSB 3340	Behavioral Neuroscience [1]	
Developmental Changes		
DEP 3053	Developmental Psychology	
Learning and Cognition		
EAB 3002	Principles of Behavior Analysis	
EAB 3764	Applied Behavior Analysis	
EXP 3604	Cognitive Psychology	
Sociocultural / Individual Differences Approaches		
CLP 3144	Abnormal Psychology	
PPE 3003	Psychology of Personality	
SOP 3004	Social Psychology	
Laboratory course		
PSY 3213L	Laboratory Methods in Psychology	3
Psychology courses		
4000-level courses (does not count individual work courses)		6
Additional Psychology courses		
3000/4000-level courses to meet the 36-credit minimum requirement (with the exception that three credits of 2000-level courses can count toward this requirement) [2, 3]		12
Total Credits		36

1. Students may not take both PSB 3002 and PSB 3340 under any circumstances.
2. In addition, up to nine credits of individual work courses will count toward the 36-credit minimum requirement.
3. Two courses from the Women's Studies department can also be utilized as part of the 12 additional psychology credits (WST 3371; WST 4704, WST 3323, WST 4XXX).

Students who wish to transfer courses in psychology toward the major must see an advisor in the department for approval.

Related Coursework

Statistics

STA 2023 and STA 3024 are also required. STA 2023 is a prerequisite for some 4000-level psychology and laboratory courses. STA 3024 must be taken before or concurrently with any specialized psychology laboratory, and it also counts toward the CLAS requirement of 3000-level electives not in the major.

Mathematics

Proficiency through precalculus is required. MAC 1147 (or higher course) will meet this requirement. The combination of MAC 1114 and MAC 1140 may be substituted for MAC 1147.

Biological Science

BSC 2005 or BSC 2010 is required.

All majors are encouraged to see a psychology advisor in 135 Psychology Building. No appointments are necessary and walk-ins are welcome.

Most of the foundation-level courses and the laboratory methods course are offered each semester. Special topic and other advanced courses are offered less frequently. Fewer courses are offered in summer.

Related Psychology Programs

- Bachelor of Arts in Psychology, UF Online (p. 915)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=420101&track=01) may be used for transfer students.

The following critical-tracking courses are required: BSC 2005 or BSC 2010, MAC 1147 or MAC 1140 and MAC 1114, PSY 2012, PSY 3213L, and STA 2023.

Although not required in the first five semesters, additional psychology courses taken in semesters 1-5 count toward the critical-tracking GPA for the major.

Semester 1

- Complete MAC 1140 or MAC 1147
- 2.4 UF GPA required

Semester 2

- Complete PSY 2012; if MAC 1140 is taken in semester 1, MAC 1114 must be taken semester 2
- 2.6 UF GPA required

Semester 3

- Complete 2 critical-tracking courses from BSC 2005 or BSC 2010, STA 2023 or PSY 3213L with a 2.6 critical-tracking GPA
  Students should take PSY 3213L **in semester 3 or 4 before taking any additional 3000-level or above psychology courses.**
- 2.7 UF GPA required

Semester 4

- Complete BSC 2005 or BSC 2010 and STA 2023 (if not previously taken) with a 2.75 critical-tracking GPA
- 2.8 UF GPA required

Semester 5

- Complete PSY 3213L (if not previously taken) with 2.75 critical-tracking GPA. Additional Psychology courses taken in semesters 1-5 are included in the critical-tracking GPA.
- 2.8 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Foreign language		4-5
Gen Ed Physical Sciences		3
	Credits	14-15
Semester Two		
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
Foreign language		3-5
State Core Gen Ed Humanities (p. 23)		3
	Credits	15-17
Semester Three		
Select one:		3

BSC 2005	Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological Sciences)	
BSC 2010	Integrated Principles of Biology 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences)	
PSY 3213L	Laboratory Methods in Psychology (**Critical Tracking**)	3
Electives (3 credits of foreign language if 4-3-3 option)		6
Gen Ed Humanities		3
	Credits	15
Semester Four		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Elective		3
Foundation-level psychology course		3
Foundation-level psychology course (Gen Ed Social and Behavioral Sciences)		3
Gen Ed Physical Sciences		3
	Credits	15
Semester Five		
Gen Ed Composition; Writing Requirement		3
Foundation-level psychology course (Gen Ed Biological Sciences)		3
Foundation-level psychology course (Gen Ed Social and Behavioral Sciences)		3
Electives		6
	Credits	15
Semester Six		
STA 3024	Introduction to Statistics 2 (Gen Ed Mathematics; counts as a 3000-level or above elective, not in the major)	3
Electives (3000 level or above, not in major)		6
Psychology courses (3000 level or above, at least one 4000-level)		6
	Credits	15
Semester Seven		
Elective		3
Electives (3000 level or above, not in major)		6
Psychology courses (3000 level or above, at least one 4000-level)		6
	Credits	15
Semester Eight		
Psychology courses (3000 level or above)		6
Elective (3000 level or above, not in major)		3
Electives		7
	Credits	16
	Total Credits	120

Academic Learning Compact

The Bachelor of Science in psychology enables students to achieve a high level of proficiency in the science of psychology, including the core natural and social science areas of psychology. Laboratory courses emphasize students' understanding of the design, analysis and critical interpretation of psychological research. Students will also refine their core knowledge and understanding of psychological research with advanced coursework in statistics, biology and mathematics.

Before Graduating Students Must

- Demonstrate satisfactory (minimum grade of C) performance on exams, papers and other coursework for six credits in core psychology natural sciences (course prefixes CBH, EAB, EXP and PSB), six credits of core psychology social sciences (course prefixes CLP, DEP, SOP and PPE) and three or four credits of psychological research methodology, design and analysis, as graded by department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Critical knowledge of basic and applied aspects of core natural science areas within psychology as well as core social science areas within psychology.
2. Knowledge of the design, analysis and interpretation of psychological research.

Critical Thinking

3. Review, interpret and analyze the literature in psychological science.

Communication

4. Clearly and effectively present ideas in speech and in writing that contribute to the dissemination of advances in research in psychological science.

Curriculum Map

All courses available to students are listed in the table; however, students choose six credits in core psychology natural sciences, six credits of core psychology social sciences and three-to-four credits in psychological research methodology, design and analysis.

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
DEP 4115	R			
DEP 4163	R			
DEP 4305	R			
DEP 4464	R			
DEP 4930	R			
EAB 4184	R			
EAB 4704	R			
EXP 4504	R			
PCO 3320	R			
PCO 4104	R			
PCO 4272	R			
PCO 4930	R			
PSB 3842	R			
PSB 4240	R			
PSB 4342	R			
PSB 4434	R			
PSB 4504	R			
PSB 4654	R			
PSB 4810	R			
PSB 4823	R			
PSB 4934	R			
PSY 3220		R	R	R
PSY 3443	R			
PSY 4604	R	R	R	
PSY 4930	R			
SOP 3842	R			
SOP 4444	R			
SOP 4504	R			
SOP 4704	R			
STA 3024		I, R		
Natural Sciences				
CBH 3003	I, R, A			
EAB 3002	I, R, A			
EAB 3764	I, R, A			
EXP 3104	I, R, A			
EXP 3604	I, R, A			
PSB 3002	I, R, A			
PSB 3340	I, R, A			
Social Sciences				
CLP 3144	I, R, A			
DEP 3053	I, R, A			
PPE 3003	I, R, A			
SOP 3004	I, R, A			

Laboratories				
DEP 4704C		I, R, A	I, R, A	I, R, A
EAB 4022C		I, R, A	I, R, A	I, R, A
EAB 4714C		I, R, A	I, R, A	I, R, A
EXP 4174C		I, R, A	I, R, A	I, R, A
EXP 4934C		I, R, A	I, R, A	I, R, A
PPE 4324C		I, R, A	I, R, A	I, R, A
PSY 3213L		I, R, A	I, R, A	I, R, A
SOP 4214C		I, R, A	I, R, A	I, R, A
Individual work in research, teaching, or community service				
PSY 3912		R	R	R
PSY 4905	R			
PSY 4940	R			
PSY 4949	R			
PSY 4970		R	R	R

Assessment Types

- Exams
- Papers

Psychology UF Online

Psychology is the science of human and animal behavior. Psychology majors receive a broad science-based liberal arts education. As a result, those with a Bachelor of Arts in psychology are widely sought in business, education, and certain mental health fields. For a professional career in psychology, a graduate degree is needed.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR | Email (psych-advising@ufl.edu)
- **Additional In formation**
- **Related Psychology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The psychology curriculum provides a strong background to pursue careers in psychology, business, education, or health-related fields. The curriculum emphasizes the principles and applications of psychological knowledge, both as a natural science and as a social science. The B.A. in psychology requires courses in four core areas within the discipline as well as elective psychology courses.

Coursework for the Major

A B.A. in psychology consists of a minimum of 30 credits in psychology plus related coursework in biological science, mathematics, and statistics. At least 18 of the 30 credits must be taken at UF, and at least 24 of the 30 credits must be at the 3000-level or above. Courses used toward the major must be earned with minimum grades of C.

Code	Title	Credits
Required Coursework		
Introductory Level		
PSY 2012	General Psychology (or equivalent, such as a general psychology course taken elsewhere or credit by exam for this course via AP, IB, AICE)	3
Foundation Level Core		
Select at least one course from each of the four foundation areas:		12
CBH 3003 or PSB 3002	Comparative Psychology (Biological Bases) Physiological Psychology	

DEP 3053	Developmental Psychology (Developmental Changes)	
EAB 3002	Principles of Behavior Analysis (Learning and Cognition)	
or EXP 3604	Cognitive Psychology	
CLP 3144	Abnormal Psychology (Sociocultural / Individual Differences Approaches)	
or SOP 3004	Social Psychology	
Laboratory Course		
PSY 3213L	Laboratory Methods in Psychology	3
Additional Psychology Courses		
3000/4000-level psychology courses to meet the 30-hour minimum requirement (with the exception that three credits of 2000-level courses may count toward this requirement) [1]		12
Related Coursework		
STA 2023	Introduction to Statistics 1 (required; prerequisite for some 4000-level psychology courses)	3
Select one to achieve proficiency through precalculus:		4-5
MAC 1147	Precalculus Algebra and Trigonometry (or higher course)	
MAC 1114	Trigonometry	
& MAC 1140	and Precalculus Algebra	
BSC 2005	Biological Sciences	3
Recommended Coursework		
Select a maximum of six credits of individual work courses to count toward the major: [2]		0-6
PSY 4911	Undergraduate Research in Psychology	
PSY 4905	Individual Work	
PSY 4970	Senior Thesis	
PSY 4949	Community Work in Psychology	
CLP 3911	Introduction to Clinical Research	
Total Credits		40-47

1 In addition, up to six credits of individual work courses will count toward the 30-hour minimum requirement.

2 In addition to regularly scheduled courses, the department offers four individual work courses, three involving research (PSY 4911, PSY 4905, and PSY 4970) and one involving community work (PSY 4949). Students may enroll in these courses by permission of relevant faculty supervisors.

Students who wish to transfer courses in psychology toward the major must see an advisor in the department for approval.

Related Psychology Programs

- Bachelor of Science in Psychology (p. 896)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=420101&track=01) may be used for transfer students.

The following critical-tracking courses are required:

- BSC 2005
- MAC 1147 or MAC 1140 and MAC 1114
- PSY 2012
- PSY 3213L
- STA 2023

Semester 1

- Complete MAC 1140 or MAC 1147
- 2.2 UF GPA required

Semester 2

- Complete PSY 2012; if MAC 1140 is taken in semester one, MAC 1114 must be taken semester two
- 2.3 UF GPA required

Semester 3

- 2.4 UF GPA required
- Complete 2 critical-tracking courses from BSC 2005, STA 2023 or PSY 3213L with a 2.5 critical-tracking GPA

Students should take PSY 3213L in semester 3 or 4 before taking any additional 3000-level or above psychology courses.

Semester 4

- Complete BSC 2005 and STA 2023 (if not previously taken) with a 2.5 critical-tracking GPA
- 2.5 UF GPA required

Semester 5

- Complete PSY 3213L (if not previously taken) with 2.5 critical-tracking GPA
- 2.5 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Gen Ed Physical Sciences		3
Foreign language		5
	Credits	15
Semester Two		
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Composition (Writing Requirement)		3
State Core Gen Ed Humanities (p. 23)		3
Select one foreign language course		5
	Credits	14
Semester Three		
BSC 2005	Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological Sciences)	3
PSY 3213L	Laboratory Methods in Psychology (**Critical Tracking**)	3
Gen Ed Humanities		3
Electives		6
	Credits	15
Semester Four		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Foundation-level psychology course		3
Foundation-level psychology course (Gen Ed Social and Behavioral Sciences)		3
Gen Ed Physical Sciences		3
Elective		3
	Credits	15
Semester Five		
Gen Ed Composition (Writing Requirement)		3
Foundation-level psychology course (Gen Ed Biological Sciences)		3
Select one foundation-level psychology course (Gen Ed Social and Behavioral Sciences)		3
Elective (3000 level or above, not in major)		3
Select one elective		3
	Credits	15
Semester Six		
Psychology courses (3000 level or above)		6

Electives (3000 level or above, not in major)		9
	Credits	15
Semester Seven		
Psychology course (3000 level or above)		3
Elective (3000 level or above, not in major)		3
Electives		9
	Credits	15
Semester Eight		
Psychology course (3000 level or above)		3
Elective (3000 level or above, not in major)		3
Electives		10
	Credits	16
	Total Credits	120

Academic Learning Compact

The Bachelor of Arts in psychology enables students to achieve a high level of proficiency in the science of psychology, including the core natural and social science areas of psychology. Laboratory courses emphasize students' understanding of the design, analysis and critical interpretation of psychological research. Students will also refine their core knowledge and understanding of psychological research with advanced coursework in statistics, biology and mathematics.

Before Graduating Students Must

- Demonstrate satisfactory (minimum grade of C) performance on exams, papers and other coursework for six credits in core psychology natural sciences (course prefixes CBH, EAB, EXP and PSB), six credits of core psychology social sciences (course prefixes CLP, DEP, SOP and PPE) and three or four credits of psychological research methodology, design and analysis, as graded by department rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Critical knowledge of basic and applied aspects of core natural science areas within psychology as well as core social science areas within psychology.
2. Knowledge of the design, analysis and interpretation of psychological research.

Critical Thinking

3. Review, interpret and analyze the literature in psychological science.

Communication

4. Clearly and effectively present ideas in speech and in writing that contribute to the dissemination of advances in research in psychological science.

Curriculum Map

All courses available to students are listed in the table; however, students choose six credits in core psychology natural sciences, six credits of core psychology social sciences and three-to-four credits in psychological research methodology, design and analysis.

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
DEP 4115	R			
DEP 4163	R			
DEP 4305	R			
DEP 4464	R			
DEP 4930	R			
EAB 4184	R			
EAB 4704	R			
EXP 4504	R			
PCO 3320	R			
PCO 4104	R			

PCO 4272	R			
PCO 4930	R			
PSB 3842	R			
PSB 4240	R			
PSB 4342	R			
PSB 4434	R			
PSB 4504	R			
PSB 4654	R			
PSB 4810	R			
PSB 4823	R			
PSB 4934	R			
PSY 4604	R	R	R	
PSY 4930	R			
SOP 3842	R			
SOP 4444	R			
SOP 4504	R			
SOP 4704	R			
STA 3024		I, R		
Natural Sciences				
CBH 3003	I, R, A			
EAB 3002	I, R, A			
EAB 3764	I, R, A			
EXP 3104	I, R, A			
EXP 3604	I, R, A			
PSB 3002	I, R, A			
PSB 3340	I, R, A			
Social Sciences				
CLP 3144	I, R, A			
DEP 3053	I, R, A			
PPE 3003	I, R, A			
SOP 3004	I, R, A			
Laboratories				
DEP 4704C		I, R, A	I, R, A	I, R, A
EAB 4022C		I, R, A	I, R, A	I, R, A
EAB 4714C		I, R, A	I, R, A	I, R, A
EXP 4174C		I, R, A	I, R, A	I, R, A
EXP 4934C		I, R, A	I, R, A	I, R, A
PPE 4324C		I, R, A	I, R, A	I, R, A
PSY 3213L		I, R, A	I, R, A	I, R, A
SOP 4214C		I, R, A	I, R, A	I, R, A
Individual work in research, teaching, or community service				
PSY 3912		R	R	R
PSY 4905	R			
PSY 4940	R			
PSY 4949	R			
PSY 4970		R	R	R

Assessment Types

- Exams
- Papers

Public Affairs Certificate

The public affairs certificate is for those interested in government careers and requires courses in public policy and public administration.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Additional Information**
- **Related Political Science Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Credits earned toward the certificate also count toward the political science major.

Required Courses

Code	Title	Credits
PAD 3003	Introduction to Public Administration (a core course in public administration)	3
PUP 3002	Current Controversies in Public Policy (a core course in public policy)	3
Select three 3000/4000-level courses from one of the following:		9
The policy process (e.g., bureaucratic politics)		
A substantive policy area (e.g., health politics and policy or politics and ecology)		
Total Credits		15

Students are encouraged to serve an internship in government and to complete an honors thesis in the area of public affairs.

Related Political Science Programs

- Bachelor of Arts in Political Science (p. 886)

Public Leadership Minor

This interdisciplinary minor, offered by the Bob Graham Center for Public Service, is for students interested in careers in the public and private sectors and those interested in acquiring skills to develop as civically responsible citizens. Through coursework and practical experience, students gain the skills and knowledge necessary for effective and ethical leadership careers. The minor complements a variety of majors, including the natural sciences, humanities, social sciences, journalism, and business.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 21 | Completed with a minimum cumulative 3.0 GPA
- **Additional Information**

Students pursuing the minor are expected to attend six events before graduation: public lectures, workshops, seminars, and the speakers series offered by the center. These events provide an opportunity to interact with visiting speakers on topics of current interest. Students are required to submit online a one page paper about the event within 24 hours of participation.

Students must have a 3.25 GPA and normally apply during the sophomore or junior year; application deadlines are October 1 and April 1.

Applications must include:

- A 2-3 page statement of purpose indicating why the student is applying and how the minor will help their future career
- One letter of recommendation, preferably from a faculty member, and
- A brief résumé.

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward their major(s) or other minors.

Required Courses

Code	Title	Credits
AMH 3423	Florida Since 1845	3
ENC 3254	Professional Writing in the Discipline	3

POS 3263	Policy, Ethics and Public Leadership	3
Select one (S/U only):		3
POS 4940	Political Internship	
IDS 4940	Internship	
IDH 4940	Internship	
PUP 3002	Current Controversies in Public Policy	3
Substantive Policy elective		3
Substantive Policy elective or Leadership elective		3
Total Credits		21

Approved Electives

Substantive Policy Electives

Code	Title	Credits
CPO 4793	Environmental Politics in the Global South	3
ECO 2310	Economics of Sustainability	3
ECP 3302	Environmental Economics and Resource Policy	4
IDS 2338	Democratic Engagement and Public Leadership	3
INR 4204	Comparative Foreign Policy	3
INR 4303	The Making of American Foreign Policy	3
JOU 4930	Special Study in Journalism	1-3
PAD 3003	Introduction to Public Administration	3
POS 4074	Latino Politics and Policy	3
POS 4077	African American Politics and Policy	3
POS 4931	Special Topics	3
POS 4424	Legislative Politics	3
POS 4931	Special Topics (Food Politics)	3
POS 4931	Special Topics (Religion and Public Policy)	3
PUP 3323	Women in Politics	3
PUP 4224	Florida Environmental Politics	3
PUP 4404	Politics of Education	3
SYO 3534	Poverty	3
WST 3663	Gender and Food Politics	3

Leadership Electives

Code	Title	Credits
AEC 3414	Leadership Development	3
AEC 4417	Leadership for Personal and Organizational Change	3
AEC 4465	Global Leadership	3

Religion

Events at home and abroad show that religion continues to be a powerful force, with both positive and negative consequences. An undergraduate major in religion provides students with the basic tools to understand the diversity of religious phenomena throughout the world in their proper historical, socio-political, psychological, cultural, and philosophical contexts.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Contact:** Email (info@religion.ufl.edu?Subject=Religion Major)
- **Additional Information**
- **Related Religion Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students majoring in religion have gone on to work with non-government organizations and religious communities, including pastoral work and administration. Students receive truly interdisciplinary training and many have gone on to pursue advanced degrees in the humanities, social sciences,

law, education, journalism, and social services. The religion program complements many other programs at the University of Florida, including Latin American studies, sustainability studies, Jewish studies, African studies, and Asian studies.

Coursework for the Major

The program consists of 10 courses, which include at least one in Asian religions, one in Islam, and one in Jewish or Christian scripture. In addition, all majors must complete a junior seminar on methods and theories in the study of religion and a comparative East-West capstone seminar.

The 10 courses (30 credits) for the undergraduate major in religion must be completed with minimum grades of C. These courses must be taken from the introductory, intermediate and advanced levels of the religion curriculum and they must expose the student to both eastern and western thought.

Required Coursework

Code	Title	Credits
Asian Religion		
Select one:		3
REL 2315	Religion in Asia	
REL 2341	Introduction to Buddhism	
REL 3318	Chinese Religions	
REL 3330	Religions of India	
REL 3333	Gods, Sages and Kings: Mythology	
REL 3335	Hindu Sacred Text/Social-Ritual Context	
REL 3336	Religion in Modern India	
REL 3344	Chinese Buddhism	
REL 4337	Women in Hindu Tradition	
REL 4345	Chan/Zen Buddhism	
REL 4349	Buddhist Meditation	
Islam		
Select one:		3
REL 2362	Introduction to Islam	
REL 4371	Islam in Africa	
REL 4361	Women and Islam	
REL 4367	The History of Islam in the Modern World	
REL 4393	Islam in the Americas	
Jewish or Christian Scripture		
Select one:		3
REL 2210	Hebrew Scriptures	
REL 2240	New Testament	
REL 3213	Hebrew Bible as Literature	
REL 3234	Wisdom in the Hebrew Bible	
REL 3249	The Christian Gospels	
REL 3252	Acts, Paul, and Early Christianity	
REL 3291	Gender and the Hebrew Bible	
REL 4221	The Pentateuch	
REL 3931	Junior Seminar (during the junior year)	3
4000-level courses, one of which must be the following:		9
REL 4933	The Comparative Study of Religion	
Total Credits		21

- Majors cannot count more than three introductory courses (2000-level, 9 credits) toward the 30 credits.
- No more than three courses (9 credits) can be in approved cognate courses from other departments.
- No more than four courses (12 credits) can be transferred from another institution.
- Every two semesters all majors must consult the undergraduate advisor.

There are no prerequisites for 2000-level courses. Detailed descriptions of current and prospective courses are available in 107 Anderson Hall and from faculty members before registration.

Overseas Studies

The department encourages study abroad. Overseas Studies, within the UF International Center (http://www.ufic.ufl.edu) (UFIC), offers the opportunity to study in a wide range of academic and cultural settings. The office coordinates 32 semester and yearlong programs and 28 summer programs in 24 countries. Study abroad programs satisfy the general education international and diversity requirements and also may fulfill requirements for a major

or minor, as well as basic distribution area requirements and UF summer residency. Interested students should contact the UF International Center in 170 Hub or the undergraduate coordinator.

Related Religion Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Religion minor (p. 925)
- Religious Ethics minor (p. 925)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=380201&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete 1 religion course
- 2.0 UF GPA required

Semester 4

- Complete 1 additional religion course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete 1 additional religion course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MGF 1106	Mathematics for Liberal Arts Majors 1 (recommended; or other State Core Gen Ed Mathematics course)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Foreign language		4-5
	Credits	13-14
Semester Two		
Asian religion course (**Critical Tracking**; Gen Ed Humanities)		3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Foreign language		3-5
Gen Ed Mathematics		3

State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15-17
Semester Three		
Gen Ed Biological or Physical Sciences (area **not** taken in semester 2)		3
Elective or foreign language, if 4-3-3 option		3
State Core Gen Ed Humanities (p. 23)		3
Jewish or Christian scripture course (**Critical Tracking**; Gen Ed Humanities)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Four		
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Electives		4
Islam course (**Critical Tracking**)		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Gen Ed Social and Behavioral Sciences		3
	Credits	17
Semester Five		
REL 3931	Junior Seminar	3
Electives		6
Gen Ed Physical Sciences		3
Religion elective (3000 level or above)		3
	Credits	15
Semester Six		
Religion course (4000 level)		3
Electives		12
	Credits	15
Semester Seven		
Electives (3000 level or above, not in major)		9
Religion course (4000 level)		3
Religion elective (3000 level or above)		3
	Credits	15
Semester Eight		
REL 4933	The Comparative Study of Religion (Gen Ed Humanities)	3
Elective		3
Electives (3000 level or above, not in major)		9
	Credits	15
	Total Credits	120

Academic Learning Compact

The major in religion examines religion as a significant and pervasive element in human culture. Through study of a variety of religious traditions, students learn about the history, beliefs and practices of the world's religions. Emphasis on method and theory and religion's comparative dimensions enables students to read and analyze current literature. Students will be able to locate and use reference tools and demonstrate the ability to communicate independent, critical perspectives.

Before Graduating Students Must

- Achieve satisfactory evaluation of assignment from REL 3931.
- Achieve satisfactory evaluation of assignment from REL 4933.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and explain religion as a significant and pervasive element in human culture.

Critical Thinking

2. Read and analyze current literature on method and theory in a study of religion.
3. Read and analyze current literature on comparative religion.

Communication

4. Effectively communicate, in speech and in writing, and disseminate the results of research in a coherent and organized manner.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Asian Religions				
REL 2317, REL 2341, REL 3330 or REL 3336	I, R		I, R	
Islamic Religions				
REL 2362, REL 3317, REL 3366 or REL 3367	I, R		I, R	
Jewish or Christian Scripture				
REL 2210, REL 2240, REL 3249 or REL 3252	I, R		I, R	
REL 3931	A	I, R, A		I, R, A
REL 4933	A		A	I, R, A

Assessment Types

- Papers
- Additional assessment include the department's senior survey

Religion Minor

The religion minor provides the opportunity to explore various religions around the world: their scriptures, histories, beliefs, rituals, and communities.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Additional Information**
- **Related Religion Programs**

The religion minor consists of five REL-prefixed religion courses. Three of these courses must be taken at the intermediate or advanced level at UF.

No more than three credits of REL 4905 will apply. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
REL courses (2000 level)		0-6
REL courses (3000/4000 level) [1]		9-15

[1] No more than three credits of REL 4905.

Related Religion Programs

- Bachelor of Arts in Religion (p. 921)
- Religious Ethics minor (p. 925)

Religious Ethics Minor

This minor provides the opportunity to learn about ethical theories and issues, from both philosophical and religious perspectives, past and present.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Additional Information**
- **Related Religion Programs**

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
PHI 3650	Moral Philosophy	3
REL 3171	Ethics in America	3
Approved electives		9
Total Credits		15

Approved Electives

Code	Title	Credits
REL 3492	Religion Ethics and Nature	3
REL 4092	Ethics, Utopias and Dystopias	3
REL 4177	Special Topics in Religion and Ethics	3
REL 4188	Special Topics in Religion and Ethics	3

Related Religion Programs

- Bachelor of Arts in Religion (p. 921)
- Religion minor (p. 925)

Russian

Foreign Languages and Literatures

Students who major in Russian graduate with a solid working knowledge of the language and a thorough understanding of Russian culture and everyday life.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Russian Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in Foreign Languages and Literatures (FLL) provides students with a comprehensive knowledge of a specific language (or languages) and advanced familiarity with the cultural practices and traditions associated with the language(s) of specialization. The major in FLL enhances critical thinking and communication skills, and provides students with a cross-cultural understanding of our contemporary world. The program allows students the flexibility to explore a single or dual language specialization as well as the opportunity to study culture through interdisciplinary fields of critical concentration, such as Comparative Cultural Studies, Film and Visual Culture, Intensive Area Studies, Literary Studies, and Medieval and Early Modern Studies. A major in FLL offers an excellent basis for a variety of careers, including graduate study in an area of foreign language and culture and/or in the humanities and social sciences, as well as careers in education, international development, diplomacy and government, national security, communications, law, journalism, arts and culture, publishing, and global business. Participation in UF study-abroad programs or a UF approved program is highly encouraged.

Foreign Languages and Literatures Options (p. 691)

Students can tailor their program of study to fit their personal and career goals, be it reading Tolstoy in the original or tapping into one of the hottest emerging global markets. Majors also receive priority placement in our popular study-abroad programs in Moscow.

Completed alone or in combination with a second major, the Russian specialization of the Foreign Languages and Literatures major prepares students for a variety of careers, including law, government, national security, international relations, business, education and graduate programs in the humanities and social sciences. Beyond this, it equips students with analytical skills essential for performing effectively in today's multicultural world.

Small class sizes and an outstanding professional teaching staff ensure that students have every opportunity to learn and excel.

Students who intend to pursue the Russian specialization or a Russian minor should consult the undergraduate coordinator for Russian studies as soon as possible.

Coursework for the Major

The Russian specialization in Foreign Languages and Literatures consists of preparatory language study at the beginning and Intermediate levels and 33 hours of advanced language, literature, and culture study in the upper division.

All coursework for the major must be completed with minimum grades of C.

Required Foundation Coursework | 18 Credits

Code	Title	Credits
RUS 1130	Introduction to Russian Language and Culture 1	5
RUS 1131	Introduction to Russian Language and Culture 2	5
RUS 2220	Intermediate Russian 1	4
RUS 3400	Intermediate Russian 2	4
Total Credits		18

Required Core Coursework | 33 Credits

Code	Title	Credits
Advanced Language		
RUS 4501	Russian Studies Research Seminar	3
RUS 4000	Advanced Russian 1	3
RUS 4001	Advanced Russian 2	3
Advanced Elective Coursework		
Language, Literature, Culture in Russian		
Select 6 credits with at least 3 credits at the 4000 level:		6
RUS 3240	Oral Practice in Russian	
RUS 4300	Advanced Grammar and Composition	
RUS 4411	Advanced Oral Practice	
RUS 4502	Language and Culture of the Russian Business World	
RUS 4503	Theory and Practice of Russian-English Translation 1	
RUS 4504	Theory and Practice of Russian-English Translation 2	
RUS 4700	Structure of the Russian Language	
RUS 4780	Corrective Phonetics and Intonation	
RUS 4905	Individual Work in Russian	
RUS 4911	Undergraduate Research in Russian Language	
RUS 4930	Special Topics in Russian	
RUS 4956	Overseas Studies	
RUW 3101	Reading Russian Literature	
RUW 4301	Russian Drama and Poetry	
RUW 4341	Russian Media Culture	
RUW 4370	Russian Short Prose	
RUW 4630	Reading Eugene Onegin: Pushkin and Nabokov	
RUW 4911	Undergraduate Research in Russian Studies, Target Language	
RUW 4932	Selected Readings in Russian	
Russian Literature and Culture in English		
Select 9 credits minimum:		9
RUT 3101	Russian Masterpieces	
RUT 3441	Tolstoy and Dostoevsky	
RUT 3442	Themes from Russian Literature	
RUT 3443	War and Peace	
RUT 3452	Russian Literature of the Twentieth Century	
RUT 3500	Russian Cultural Heritage	
RUT 3501	Contemporary Russian Culture and Society	
RUT 3503	Violence and Terror in the Russian Experience	
RUT 3504	Russia Today	

RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	
RUT 3514	Russian Fairy Tales	
RUT 3524	Russia through Film	
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	
RUT 3600	The Twentieth Century through Slavic Eyes	
RUT 3930	Variable Topics in Russian Studies	
RUT 4440	Pushkin and Gogol	
RUT 4450	Russian Modernism	
RUT 4911	Undergraduate Research in Russian Studies, English Translation	
RUT 4930	Variable Topics in Russian Studies	
Critical Concentration		
Select 9 credits from one concentration: [1]		9
Intensive Area Studies: Russian [2]		
Comparative Cultural Studies		
Film and Visual Culture		
Literary Studies		
Medieval and Early Modern Studies		
Total Credits		33

1 Although courses may appear in more than one group they may be counted toward only one group.

2 Recommended for those planning to pursue careers requiring advanced level skills in Russian or graduate work in Russian Studies.

Overseas Study

Students are encouraged to consider the UF summer program in Russian language and culture at Moscow State University in Russia.

Research

Students with an upper-division GPA of 3.5 are encouraged to write a thesis for high or highest honors at graduation.

Related Russian Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Russian minor (p. 934)
- Russian and East-European Area Studies certificate (p. 933)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160402&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete RUS 1130 or higher-level Russian course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete RUS 1131 or higher-level Russian course with 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete RUS 2220 or any 2000-level Russian course with 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically GE-C, H, or S). One of the two general education mathematics courses must be a pure math course. 3000 level or above critical concentration courses outside of Russian may count toward the 3000 level or above electives outside of the major.

Beginning language is best started semester 1 and absolutely no later than semester 3, but study abroad or accredited intensive summer courses can be used to fall in with an ideal semester progression.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
RUS 1130	Introduction to Russian Language and Culture 1 (**Critical Tracking**)	5
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
RUS 1131	Introduction to Russian Language and Culture 2 (**Critical Tracking**)	5
State Core Gen Ed Mathematics (p. 23)		3
Gen Ed Biological or Physical Sciences (area **not** taken in semester 1)		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
	Credits	15
Semester Three		
RUS 2220	Intermediate Russian 1 (**Critical Tracking**)	4
Russian literature and culture in English course (3000 level or above)		3
Gen Ed Mathematics		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Four		
RUS 3400	Intermediate Russian 2	4
Russian literature and culture in English course (3000 level or above; Gen Ed Humanities and International, if not previously met)		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Elective		2
	Credits	15
Semester Five		
Language, literature, culture in Russian course (3000 level or above)		3
RUS 4000	Advanced Russian 1	3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
Elective (3000 level or above, not in major)		3
	Credits	15
Semester Six		
RUS 4001	Advanced Russian 2	3
Critical concentration course		3
Russian literature and culture in English course (3000 level or above)		3
Electives (3000 level or above, not in major)		6
	Credits	15

Semester Seven		
RUS 4501	Russian Studies Research Seminar	3
Critical concentration course		3
Electives (3000 level or above, not in major)		6
Elective		3
	Credits	15
Semester Eight		
Language, literature, culture in Russian course (4000 level or above)		3
Critical concentration course		3
Select one:		3
Elective		
RUS 4905	Individual Work in Russian (optional)	
Electives (3000 level or above, not in major)		6
	Credits	15
	Total Credits	120

Critical Concentration Courses | 9 Credits from One Concentration

Although courses may appear in more than one group they may be counted toward only one group

Code	Title	Credits
Intensive Area Studies: Russian		
Recommended for those planning to pursue careers requiring advanced level skills in Russian or graduate work in Russian Studies		
RUS 3240	Oral Practice in Russian	3
RUS 4300	Advanced Grammar and Composition	3
RUS 4411	Advanced Oral Practice	3
RUS 4501	Russian Studies Research Seminar	3
RUS 4502	Language and Culture of the Russian Business World	3
RUS 4503	Theory and Practice of Russian-English Translation 1	3
RUS 4504	Theory and Practice of Russian-English Translation 2	3
RUS 4700	Structure of the Russian Language	3
RUS 4780	Corrective Phonetics and Intonation	3
RUS 4905	Individual Work in Russian	1-3
RUS 4911	Undergraduate Research in Russian Language	0-3
RUS 4956	Overseas Studies	1-15
RUW 3101	Reading Russian Literature	3
RUW 4301	Russian Drama and Poetry	3-6
RUW 4341	Russian Media Culture	3
RUW 4370	Russian Short Prose	3
RUW 4630	Reading Eugene Onegin: Pushkin and Nabokov	3
RUW 4911	Undergraduate Research in Russian Studies, Target Language	3
RUW 4932	Selected Readings in Russian	1-3
Comparative Cultural Studies		
ABT 3500	Arabic Culture	3
ABT 4131	The Qur'an as Literature	3
ARA 3510	The Arab Woman	3
CHI 3403	Chinese Calligraphy	3
CHT 3500	Chinese Culture	3
CHT 3513	Taoism and Chinese Culture	3
CZT 3564	Modern Czech Culture and Society	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3003	German Culture and Civilization 1	3
GET 3004	Modern German Culture and Civilization	3
GET 3930	Variable Topics in German Studies (German Fairy Tales)	3
HAI 3930	Haitian Culture and Society	3
HAT 3564	Haitian Culture and Society	3
ITT 3431	Italy and Pilgrimages	3
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3

JMT 3500	Jamaican Creole, Reggae, and Rastafari	3
JPT 3500	Japanese Culture	3
JPT 4502	Japanese Folklore	3
RUT 3443	War and Peace	3
RUT 3500	Russian Cultural Heritage	3
RUT 3501	Contemporary Russian Culture and Society	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3504	Russia Today	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3524	Russia through Film	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 4450	Russian Modernism	3
VTT 3500	Vietnamese Culture	3
YOT 3500	Yoruba Diaspora in the New World	3
Film and Visual Culture		
CHI 4930	Special Topics in Chinese Studies	3
CHT 3391	Chinese Film and Media	4
CHT 3523	Hong Kong, Taiwan, and the New Global Cinema	4
FRT 3520	French Cinema	4
FRT 3561	Women in French Literature and/or Cinema	3-4
FRT 4523	European Identities, European Cinemas	4
GET 3520	Early German Cinema: 1945	4
GET 3580	Representations of War in Literature and Visual Media	3
GET 4521	Women and German Cinema	4
GET 4523	New Cinema 1945 to the Present	4
GET 4930	Variable Topics in German Studies	3
HBR 4930	Special Topics	3
ITT 3521	Italian Cinema	4
ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3541	Gangsters and Godfathers: Italian Mafia Movies	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPN 4930	Special Topics in Japanese Studies	3
JPT 3702	Japanese Visual Culture	3
JPT 3391	Introduction to Japanese Film	4
PLT 3520	Polish Cinema	4
RUT 3524	Russia through Film	3
SSA 4930	Special Topics in African Studies (African Film)	3
Literary Studies		
ABT 3130	Arabic Literary Heritage 1	3
ABT 4131	The Qur'an as Literature	3
CHI 4930	Special Topics in Chinese Studies	3
CHT 3110	Chinese Literary Heritage	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3124	Modern Chinese Fiction in Translation	3
CHT 4111	Dream of the Red Chamber	3
CHT 4122	Religious Dimensions of Late Imperial Chinese Literature	3
CHT 4603	Journey to the West	3
FRT 3004	Monuments and Masterpieces of France	3
FRT 3561	Women in French Literature and/or Cinema	3-4
GET 3200	Medieval Literary Culture	3
GET 3501	History, Literature and Arts of Berlin	3
GET 3580	Representations of War in Literature and Visual Media	3
GET 4930	Variable Topics in German Studies	3
HAT 3503	Haitian Culture and Literature in Translation	3
HBR 4930	Special Topics	3
HBT 3223	Identity and Dissent in the Hebrew Short Story	3
HBT 3233	Israeli History and the Contemporary Novel	3
HBT 3563	Women in Modern Hebrew Fiction	3
HBT 3564	Motherhood in Modern Hebrew Literature	3
ITT 3431	Italy and Pilgrimages	3

ITT 3540	Murder Italian Style: Crime Fiction and Film in Italy	3
ITT 3700	The Demolition of Man: Italian Perspectives on the Jewish Holocaust	3
ITT 3930	Special Topics in Italian Literature and Culture	3
JPT 3100	Tales of Kyoto	3
JPT 3120	Modern Japanese Fiction in Translation	3
JPT 3121	Contemporary Japanese Literature: Postwar to Postmodern	3
JPT 3140	Modern Women Writers	3
JPT 3150	Classical Japanese Poetry	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
JPT 4130	The Tale of Genji	3
JPT 4502	Japanese Folklore	3
PLT 3930	Special Topics in Polish Studies	3
RUT 3101	Russian Masterpieces	3
RUT 3441	Tolstoy and Dostoevsky	3
RUT 3442	Themes from Russian Literature	3
RUT 3443	War and Peace	3
RUT 3452	Russian Literature of the Twentieth Century	3
RUT 3503	Violence and Terror in the Russian Experience	3
RUT 3506	Creative Lives: Writers, Artists, and Extraordinary People	3
RUT 3514	Russian Fairy Tales	3
RUT 3530	Russia's Struggle with Nature: Legacies of Destruction and Preservation	3
RUT 3600	The Twentieth Century through Slavic Eyes	3
RUT 3930	Variable Topics in Russian Studies	3
RUT 4440	Pushkin and Gogol	3
RUT 4450	Russian Modernism	3
SST 4502	African Oral Literature	3
SSW 4713	African Women Writers	3
VTN 4930	Special Topics in Vietnamese Studies	3
YOR 4502	Yoruba Oral Literature	3
Medieval and Early Modern Studies		
ARA 3510	The Arab Woman	3
CHT 3123	Pre-Modern Chinese Fiction in Translation	3
CHT 3513	Taoism and Chinese Culture	3
CHT 4111	Dream of the Red Chamber	3
CHT 4603	Journey to the West	3
GET 3200	Medieval Literary Culture	3
ITT 3431	Italy and Pilgrimages	3
JPT 3300	Samurai War Tales	3
JPT 3330	Early Modern Japanese Literature	3
MEM 3003	Introduction to the Medieval World	3
MEM 3300	Castles and Cloisters: An Introduction to Medieval Communities	3
MEM 3301	Palaces and Cities: An Introduction to Early Modern Communities	3
MEM 3730	Studies in the Holy Roman Empire	3
MEM 3805	Research Methods in Medieval and Early Modern Studies	1
MEM 3931	Variable Topics in Medieval and Early Modern Studies	3

Academic Learning Compact

The Foreign Languages and Literatures (FLL) major enables students to achieve communicative competence in their language(s) of specialization. Students will become knowledgeable in the culture and literature and/or linguistics associated with their language area(s) such that they will be able to critically analyze and evaluate authentic sources in the target language(s) and formulate independent, critical perspectives in the target language(s). Further, students will learn the intercultural skills and practical know-how necessary to negotiate traveling, studying, and living in the target culture(s).

Before Graduating Students Must

- Satisfy the Florida statutes for the College-Level Academic Skills Requirement.
- Complete requirements for the baccalaureate degree, as determined by faculty.
- Achieve one or more of the following, as determined by their specialization within the FLL program: an acceptable score on a language proficiency test and/or a satisfactory faculty evaluation of a term paper, final project, or oral presentation completed for a selected advanced course.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe and define cultural concepts, literary production, and/or linguistic structure in language(s) of specialization.

Critical Thinking

2. Analyze, interpret, and evaluate texts according to their cultural, literary and/or linguistic content.

Communication

3. Express critical competence in relation to the culture(s) of specialization through performance of comprehensive analysis in written and oral form.
4. Display oral and written proficiency in language(s) of specialization.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
Category A[1]	I, R	I	I	I, R, A
Category B[2]	I, R, A	I, R, A	I, R, A	

1 Courses focus on the acquisition of the language(s) of specialization at the advanced level.

2 Courses address literary, cultural, cinematic, historical, and/or social questions.

Assessment Types

- Proficiency exams
- Term papers or final projects
- Oral presentations

Russian and East-European Area Studies Certificate

This certificate provides a foundation for graduate work in the field of and careers in government service. The program is based on a major in economics, foreign languages, geography, history, philosophy, political science, or religion.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 24 | Completed with minimum grades of C
- **Contact**
- **Related Russian and European Studies Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Ten credits maximum from the student's major may be used to fulfill the 24-credit area requirement. At least nine credits of coursework must be unique to the Russian and East-European Area Studies certificate out of all other certificates and minors.

Required Courses

Code	Title	Credits
Select one:		10
RUS 1130 & RUS 1131	Introduction to Russian Language and Culture 1 and Introduction to Russian Language and Culture 2	
CZE 1130 & CZE 1131	Introduction to Czech Language and Culture 1 and Introduction to Czech Language and Culture 2	
GER 1130 & GER 1131	Beginning Intensive German 1 and Beginning Intensive German 2	
HNG 1130 & HNG 1131	Beginning Hungarian 1 and Beginning Hungarian 2	
POL 1130 & POL 1131	Introduction to Polish Language and Culture 1 and Introduction to Polish Language and Culture 2	
TUR 1130 & TUR 1131	Beginning Turkish 1 and Beginning Turkish 2	

OR	
Demonstrate an equivalent reading knowledge in Russian or an East-European area language	
Relevant courses (approved by the program advisor)	14
Total Credits	24

Students are encouraged to include at least one course in economics, history, political science, and Russian or East-European culture or literature to diversify their program, or to participate in an overseas study program.

RELATED Russian and European Studies Programs

- Bachelor of Arts in International Studies, Europe (p. 810)
- Bachelor of Arts in Russian (p. 926)
- East-Central European Studies minor (p. 678)
- Russian minor (p. 934)

Russian Minor

This minor provides foundational proficiency in Russian language and culture for work in international relations, national security, global business, finance, journalism, education, and NGOs.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Russian Programs**

For the minor, students must complete at least five Russian courses beyond the 1000 level. Up to six credits transferred from another institution may be applied toward the minor.

Students are required to take RUS 2220 and one 3000/4000 level RUT course. The remaining credits should be RUS and RUW-prefixed courses at the 3000/4000 level.

Students who place out of RUS 2220 and RUS 3240 (without transfer credits) can apply up to nine credits of RUT courses toward the minor. No more than three credits of RUS 4905 can apply.

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
RUS 2220	Intermediate Russian 1	4
RUT course (3000/4000 level)		3
RUS and RUW courses (3000/4000 level)		8
Total Credits		15

Related Russian Programs

- Bachelor of Arts in Russian (p. 926)
- Russian and East-European Area Studies certificate (p. 933)

Sociology

Sociology is the study of social life and the social causes and consequences of human behavior. Award-winning faculty teach diverse and multifaceted coursework in the broad categories of health, illness and aging; marriage, families and gender; criminology and deviance; inequality, poverty and stratification; social psychology; and race and ethnic studies. Students examine the most pressing social problems in these areas, as well as how different social groups experience and perceive these issues. The communication and analytical skills developed by sociology majors, complemented by their sensitivity to and appreciation for diversity in many aspects of social relationships, provide our students with essential conceptual tools for navigating today's global marketplace and information society.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Related Sociology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

A liberal arts degree in sociology provides students with opportunities to develop skills deemed essential for many different types of careers. These skills include learning how to identify and solve problems, conduct research, relate to others, and write effectively. Graduates frequently are employed in business (e.g., advertising staff member, human resource manager), community and social services (e.g., environmental organizer, family planning worker), education (e.g., teacher, public health educator), government (e.g., human rights officer, urban planner), and research (e.g., social research assistant and market researcher). Sociology is also an excellent major for pre-law, pre-health, M.A., and Ph.D. studies.

Coursework for the Major

Majors are required to complete 32 credits of coursework in sociology and 3 credits of statistics with minimum grades of C. At least 23 credits of sociology must be in courses numbered 3000 or higher and at least 18 credits must be completed at UF.

To graduate, students must also pass a department exam covering fundamental sociological concepts developed by the sociology faculty.

Required Coursework

Code	Title	Credits
SYG 2000	Principles of Sociology (sociology majors are encouraged to take this as their first class)	3
SYA 4110	Development of Sociological Thought (must be taken after 90 credits)	4
SYA 4300	Methods of Social Research (should be completed by the end of the sixth semester.) [1]	4
Additional sociology coursework		21
Total Credits		32

[1] STA 2023 is a prerequisite for SYA 4300.

Students select additional sociology courses to complete the 32-credit minimum by matching interests in different substantive areas.

Majors can only apply two other 2000-level courses besides SYG 2000, for a maximum of nine credits at the 2000 level. There are no prerequisites for 2000-level courses.

Related Coursework

In addition to the 32 credits of sociology coursework, majors are required to complete STA 2023 Introduction to Statistics 1 with a minimum grade of C. STA 2023 must be taken no later than the end of the third semester.

Course Details

All majors should review the department's guidelines or visit 3231 Turlington Hall for information about the major, the plan of study worksheet, an informational handout, descriptions of current and prospective courses and other information.

Combined Degree Programs

The Department of Sociology and Criminology offers a combined B.A./M.A. degree to eligible undergraduate students. Please see the graduate coordinator for more information regarding this degree option. Sociology majors may also consider various combined degree programs with other departments and colleges. For example, a Master of Science in Business Administration with a concentration in management is offered through the Warrington College of Business to eligible students who have majored in sociology. Please see the undergraduate coordinator for more information about such degree options.

Research

The department encourages students to engage in the research process, either by conducting their own projects in collaboration with a sociology faculty member or by working with sociology faculty on their current research. These opportunities may be pursued by conducting a senior honors thesis or registering for SYA 4911 Undergraduate Research credit. Please see the undergraduate coordinator for more information and eligibility requirements.

Related Sociology Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Sociology, UF Online (p. 939)

- Sociology minor (p. 938)
- Sociology minor, UF Online (p. 938)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=451101&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 sociology course
- 2.0 UF GPA required

Semester 3

- Complete 1 additional sociology course (1 of the 2 courses must be SYG 2000)
- Complete STA 2023
- 2.75 GPA required for all 3 critical-tracking courses
- 2.0 UF GPA required

Semester 4

- 2.75 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 additional sociology course (1 of the 3 must be at the 3000/4000 level)
- 2.75 GPA required for all 5 critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
SYG 2000	Principles of Sociology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)[1]	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Foreign language		4-5
Elective		3
	Credits	13-14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Mathematics (p. 23); pure math		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Foreign language or one elective		3-5

Elective (needed if placed out of language with SAT II)		3
	Credits	16-18
Semester Three		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Biological or Physical Sciences (area **not** taken in semester two)		3
Elective or foreign language, if 4-3-3 option)		3
State Core Gen Ed Humanities (p. 23)		3
Sociology course (**Critical Tracking**; 2000 level or above; Gen Ed Social and Behavioral Sciences)		3
	Credits	15
Semester Four		
Gen Ed Biological Sciences		3
Electives		6
Sociology course (**Critical Tracking**; 3000/4000 level; Gen Ed Social and Behavioral Sciences)		3
Gen Ed Humanities		3
	Credits	15
Semester Five		
SYA 4300	Methods of Social Research	4
Elective (3000 level or above, not in major)		3
Electives		6
Gen Ed Physical Sciences		3
	Credits	16
Semester Six		
Gen Ed Composition; Writing Requirement		3
Elective		3
Elective (3000 level or above, not in major)		3
Sociology courses (3000/4000 level)		6
	Credits	15
Semester Seven		
SYA 4110	Development of Sociological Thought	4
Electives (3000 level or above, not in major)		6
Sociology course (2000 level or above)		3
Sociology course (3000/4000 level)		3
	Credits	16
Semester Eight		
Electives		5
Electives (3000 level or above, not in major)		6
Sociology course (3000/4000 level)		3
	Credits	14
	Total Credits	120

[1] In addition to SYG 2000 (GE-S), the remaining six credits of GE-S can be satisfied by sociology or non-sociology GE-S courses.

Academic Learning Compact

The Bachelor of Arts in sociology provides students with knowledge of the basic concepts in the field, sociological perspectives on social structure, process and institutions and sociological perspectives on the relationship between individuals and society. Emphasis is on the ability to understand, analyze and interpret the sociological literature and on effectively communicating sociological concepts and research in the accepted style of presentation.

Before Graduating Students Must

- Pass a department exam developed by the sociology faculty that covers fundamental sociological concepts.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, explain and apply basic concepts in sociology.

Critical Thinking

2. Analyze, critique and interpret the sociological literature.
3. Define, classify and compare sociological perspectives on social structure, processes and institutions.
4. Define, classify and compare sociological perspectives on the relationship between individuals and society.

Communication

5. Effectively communicate in speech and in writing sociological concepts and research.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
SYA 4110	I, R, A	I, R, A	I, R, A	I, R, A	I, R, A
SYA 4300				I, R, A	I, R, A
SYG 2000	I	I	I		

Assessment Types

- Exit exam

Sociology Minor

The minor in sociology offers diverse and multifaceted coursework in the broad categories of health, illness and aging; marriage, families and gender; criminology and deviance; inequality, poverty and stratification; social psychology; and race and ethnic studies. Students learn about the most pressing social problems in these areas, as well as how these issues are experienced and perceived by different social groups. The communication and analytical skills developed by students, complemented by sensitivity to and appreciation for diversity in many aspects of social relationships, provide a competitive edge in today's global marketplace and information society.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Sociology Programs**

Requirements

- A minimum of nine credits must be taken at UF
- A minimum of six credits of coursework exclusive to the minor that cannot count toward the major or other minors

Required Courses

Code	Title	Credits
SYG 2000	Principles of Sociology	3
Sociology courses (2000 level or above)		3
Sociology courses (3000 level or above) [1]		9
Total Credits		15

[1] Excluding SYA 4905 and SYA 4911.

Related Sociology Programs

- Bachelor of Arts in Sociology (p. 934)
- Bachelor of Arts in Sociology, UF Online (p. 939)
- Sociology minor, UF Online (p. 938)

Sociology Minor UF Online

The minor in sociology offers diverse and multifaceted coursework in the broad categories of health, illness and aging; marriage, families and gender; criminology and deviance; inequality, poverty and stratification; social psychology; and race and ethnic studies. Students learn about the most pressing social problems in these areas, as well as how these issues are experienced and perceived by different social groups. The communication

and analytical skills developed by students, complemented by sensitivity to and appreciation for diversity in many aspects of social relationships, provide a competitive edge in today's global marketplace and information society.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** 1.855.99GATOR
- **Related Sociology Programs**

Requirements

- A minimum of nine credits must be taken at UF
- A minimum of six credits of coursework exclusive to the minor that cannot count toward the major or other minors

Required Courses

Code	Title	Credits
SYG 2000	Principles of Sociology	3
Sociology courses (2000 level or above)		3
Sociology courses (3000 level or above) [1]		9
Total Credits		15

[1] Excluding SYA 4905 and SYA 4911.

Related Sociology Programs

- Bachelor of Arts in Sociology (p. 934)
- Bachelor of Arts in Sociology, UF Online (p. 938)

Sociology UF Online

Sociology is the study of social life and the social causes and consequences of human behavior. Award-winning faculty teach diverse and multifaceted coursework in the broad categories of health, illness and aging; marriage, families and gender; criminology and deviance; inequality, poverty and stratification; social psychology; and race and ethnic studies. Students examine the most pressing social problems in these areas, as well as how different social groups experience and perceive these issues. The communication and analytical skills developed by sociology majors, complemented by their sensitivity to and appreciation for diversity in many aspects of social relationships, provide our students with essential conceptual tools for navigating today's global marketplace and information society.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Sociology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

A liberal arts degree in sociology provides students with opportunities to develop skills deemed essential for many different types of careers. These skills include learning how to identify and solve problems, conduct research, relate to others, and write effectively. Graduates frequently are employed in business (e.g., advertising staff member, human resource manager), community and social services (e.g., environmental organizer, family planning worker), education (e.g., teacher, public health educator), government (e.g., human rights officer, urban planner), and research (e.g., social research assistant and market researcher). Sociology is also an excellent major for pre-law, pre-health, M.A., and Ph.D. studies.

Coursework for the Major

Majors are required to complete 32 credits of coursework in sociology and 3 credits of statistics with minimum grades of C. At least 23 credits of sociology must be in courses numbered 3000 or higher and at least 18 credits must be completed at UF.

To graduate, students must also pass a department exam covering fundamental sociological concepts developed by the sociology faculty.

Code	Title	Credits
Required Coursework		
SYG 2000	Principles of Sociology (sociology majors are encouraged to take this as their first class) [1]	3
SYA 4110	Development of Sociological Thought (must be taken after 90 credits)	4
SYA 4300	Methods of Social Research (should be completed by the end of the sixth semester) [2]	4
Additional sociology coursework [3]		21
Related Coursework		
STA 2023	Introduction to Statistics 1 (must be taken no later than the end of the third semester; minimum grade of C required)	3
Total Credits		35

1. Majors can only apply two other 2000-level courses besides SYG 2000, for a maximum of nine credits at the 2000 level. There are no prerequisites for 2000-level courses.
2. STA 2023 is a prerequisite for SYA 4300.
3. Students select additional sociology courses to complete the 32-credit minimum by matching interests in different substantive areas.

Course Details

All majors should review the department's guidelines (http://soccrim.clas.ufl.edu/undergraduate/sociology/academics/requirements) for information about the major, the plan of study worksheet, an informational handout, descriptions of current and prospective courses, and other information.

Related Sociology Programs

- Bachelor of Arts in Sociology (p. 934)
- Sociology minor (p. 938)
- Sociology minor, UF Online (p. 938)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=451101&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete 1 sociology course
- 2.0 UF GPA required

Semester 3

- Complete 1 additional sociology course (1 of the 2 courses must be SYG 2000)
- Complete STA 2023
- 2.75 GPA required for all 3 critical-tracking courses
- 2.0 UF GPA required

Semester 4

- 2.75 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 additional sociology course (1 of the 3 must be at the 3000/4000 level)
- 2.75 GPA required for all 5 critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
SYG 2000	Principles of Sociology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)[1]	3
State Core Gen Ed Composition (Writing Requirement)		3
Foreign language		4-5
Elective		3
	Credits	13-14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Mathematics (pure math)		3
Science laboratory (Gen Ed Biological or Physical Sciences)		1
Foreign language or elective		3-5
Elective (needed if placed out of language with SAT II)		3
	Credits	16-18
Semester Three		
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Biological or Physical Sciences (area not taken in semester two)		3
State Core Gen Ed Humanities (p. 23)		3
Sociology course (**Critical Tracking**; Gen Ed Social and Behavioral Sciences; 2000 level or above)		3
Elective (or foreign language, if 4-3-3 option)		3
	Credits	15
Semester Four		
Gen Ed Biological Sciences		3
Gen Ed Humanities		3
Select one sociology course (**Critical Tracking**; Gen Ed Social and Behavioral Sciences; 3000/4000 level)		3
Electives		6
	Credits	15
Semester Five		
SYA 4300	Methods of Social Research	4
Gen Ed Physical Sciences		3
Elective (3000 level or above, not in major)		3
Electives		6
	Credits	16
Semester Six		
Gen Ed Composition (Writing Requirement)		3
Sociology course (2000 level or above)		3
Sociology course (3000/4000 level)		3
Elective (3000 level or above, not in major)		3
Elective		3
	Credits	15
Semester Seven		
SYA 4110	Development of Sociological Thought	4
Sociology courses (3000/4000 level)		6
Electives (3000 level or above, not in major)		6
	Credits	16
Semester Eight		
Sociology course (3000/4000 level)		3
Electives (3000 level or above, not in major)		6

Electives		5
	Credits	14
	Total Credits	120

[1] In addition to SYG 2000 (Gen Ed Social and Behavioral Sciences), the remaining six credits of GE-S can be satisfied by sociology or non-sociology Gen Ed Social and Behavioral Sciences courses.

Academic Learning Compact

The Bachelor of Arts in sociology provides students with knowledge of the basic concepts in the field, sociological perspectives on social structure, process and institutions and sociological perspectives on the relationship between individuals and society. Emphasis is on the ability to understand, analyze and interpret the sociological literature and on effectively communicating sociological concepts and research in the accepted style of presentation.

Before Graduating Students Must

- Pass a department exam developed by the sociology faculty that covers fundamental sociological concepts.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, explain and apply basic concepts in sociology.

Critical Thinking

2. Analyze, critique and interpret the sociological literature.
3. Define, classify and compare sociological perspectives on social structure, processes and institutions.
4. Define, classify and compare sociological perspectives on the relationship between individuals and society.

Communication

5. Effectively communicate in speech and in writing sociological concepts and research.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
SYA 4110	I, R, A	I, R, A	I, R, A	I, R, A	I, R, A
SYA 4300				I, R, A	I, R, A
SYG 2000	I	I	I		

Assessment Types

- Exit exam

Spanish

Hispanic and Latin American Languages, Literatures and Linguistics

Focusing on globalization, diversity, and public engagement, the Hispanic and Latin American Languages, Literatures and Linguistics major provides an interdisciplinary, multilingual approach to the study of Spanish- and Portuguese-speaking cultures drawing from a variety of contemporary perspectives on linguistics, literature, film, theatre, social service, and professions in health, law, business, education, and media.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Specializations:** Spanish (p. 942) | Portuguese (p. 891) | Spanish and Portuguese (p. 790)
- **Credits for Degree:** 120
- **Contact**
- **Additional Information**

- **Related Hispanic and Latin American Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Hispanic and Latin American Languages, Literatures and Linguistics major offers the opportunity to gain proficiency in Spanish and/or Portuguese, two of the most important languages spoken in the United States, the Western Hemisphere and the world. The department offers courses of study in language, culture, linguistics, and literature, as well as a series of courses in languages for the professions, which focus on medical, legal, business and other professional contexts.

By studying the literary and linguistic heritage of Spanish and Portuguese, students gain critical reading and writing skills that help them acquire and refine their abilities to speak, understand, read and write one of both of these languages.

The Spanish specialization focuses on the language and culture of Spain and Spanish-America, while the Portuguese specialization stresses the language and culture of Brazil, with complementary study of Portugal and Lusophone Africa. The combined specialization recognizes the increasingly prominent roles that Brazil, Spain and Latin America all play in international affairs, especially as they relate to Florida. Spanish- and Portuguese-speakers constitute the fastest growing immigrant populations in Florida. Studying both languages and cultures provide a competitive edge for those seeking careers in business, industry, tourism, health care, agricultural affairs, government, and education.

B.A. in Spanish

The major requires 33 credits, beginning with foundational work in Spanish and then moves on to introductory coursework in culture, literature and linguistics. Pre-foundational coursework required to prepare the student for SPN 2240 or SPN 2340 depends on the student's background in Spanish and an appropriate placement score.

Students must earn minimum grades of C for coursework to count toward the major.

Additionally, there are separate courses designed students who speak Spanish as a heritage language (i.e., who grew up hearing or using Spanish at home).

Required Coursework

- SPN 2240 and SPN 3300 (non-bilingual track) or SPN 2340 and SPN 3350 (bilingual track)
- SPN 3700
- At least one SPW 3000-level course, 3 credits
- An additional 21 credits of Spanish courses at the 3000/4000 levels
  - At least 12 of the 21 credits must be at the 4000 level (four courses total)
- Students who transfer credits toward the Spanish major must take at least four 4000-level courses in Spanish at UF
- No more than 3 credits of SPN 4905 may count toward the major

Recommended Coursework

Students who have studied six semesters of Spanish or who have equivalent fluency may enroll in one-credit Spanish discussion sections that accompany selected Latin American studies courses in anthropology, art, business, philosophy, religion, sociology, etc. A maximum of three such courses may be credited toward the Spanish major and minor. Refer to the course description for SPN 3224.
More Info (http://spanishandportuguese.ufl.edu/undergraduate-programs)

- SPN 3301 is the prerequisite for SPN 4420
- SPN 3700 is the prerequisite for 4000-level SPN linguistics courses
- SPN 4780 is the prerequisite for SPN 4840
- The prerequisite for 4000-level SPW courses is one SPW 3000-level course.

Concentrations

After completing the introductory courses (SPN 3700 and SPW 3xxx), students may choose to complete their remaining upper division coursework in Hispanic Literatures or Hispanic Linguistics, or a combination of the two. Courses in the literature concentration (indicated with the prefix SPW) focus on the reading, contextualization and critical analysis of literary texts from across the Spanish-speaking world and including a wide range of periods and genres. Courses in the linguistics concentration (indicated with the prefix SPN) focus on the scientific study of the Spanish language and its structures, such as morphology, phonetics, phonology and syntax; as well as more applied linguistic areas such as psycholinguistics, bilingualism, and language acquisition.

Overseas Study

Students pursuing a major or a minor in Spanish are strongly encouraged to spend a summer, a semester, or an academic year in a Spanish-speaking country. UF programs are encouraged because they allow for easy transfer of UF credits and courses or course equivalencies. Most financial aid applies in this case as well. Interested students should contact the undergraduate coordinator and the UF International Center, 170 Hub.

Placement

Students with no previous study or experience in Spanish will need to complete the beginning language sequence (SPN 1130-SPN 1131) and the intermediate language sequence (SPN 2200-SPN 2201) to prepare for SPN 2240.

Students with prior study or knowledge of Spanish who wish to enroll in a Spanish course can present dual enrollment, AP, IB, or AICE scores, or can take the WebCAPE online placement test (http://spanishandportuguese.ufl.edu/undergraduate-programs/lower-division-spanish-program/spanish-placement).

Any student who has lived in a Spanish-speaking country for more than a year or who has significant Spanish-speaking experience at home or in a community must consult the coordinator of the bilingual program before enrolling in any SPN language, literature, or culture course. Heritage speakers not planning to take Spanish who wish to show proficiency should consult the Department for information on how to fulfill their foreign language proficiency requirement.
More Info (http://spanishandportuguese.ufl.edu/undergraduate-programs/lower-division-spanish-program)

Research

Students who wish to complete a senior thesis for honors should consult Spanish faculty at least two semesters in advance of graduation.

Related Hispanic and Latin American Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Portuguese (p. 891)
- Bachelor of Arts in Spanish and Portuguese (p. 790)
- Portuguese minor (p. 895)
- Spanish minor (p. 947)
- Spanish for the Professions certificate (p. 947)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=160905&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete SPN 1130 or a higher-level Spanish course
- 2.0 UF GPA required

Semester 3

- Complete SPN 1131 or a higher-level Spanish course
- 2.0 UF GPA required

Semester 4

- Complete SPN 2200 or continue taking higher-level Spanish coursework with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete SPN 2201 or a higher-level Spanish course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
SPN 1130	Beginning Spanish 1 (**Critical Tracking**)	5
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Mathematics (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	17
Semester Two		
SPN 1131	Beginning Spanish 2 (**Critical Tracking**)	5
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Elective		1
Gen Ed Mathematics		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Three		
SPN 2200	Intermediate Spanish 1 (**Critical Tracking**)	3
Gen Ed Biological or Physical Sciences (area **not** taken in semester two)		3
State Core Gen Ed Humanities (p. 23)		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Gen Ed Social and Behavioral Sciences		3
	Credits	13
Semester Four		
SPN 2201	Intermediate Spanish 2 (**Critical Tracking**)	3
Gen Ed Biological Sciences		3
Electives		6
Select one:		3
Gen Ed Humanities		
Elective		
	Credits	15
Semester Five		
Select one (if not taken previously):		3
SPN 2240	Intensive Communication Skills [1]	
SPN 2340	Introduction to Reading and Writing Spanish for Heritage Learners	
Select one:		3
SPN 3300	Spanish Grammar and Composition 1	
SPN 3350	Spanish Grammar and Composition for Heritage Learners	
Gen Ed Composition; Writing Requirement		3
Elective		3
Elective (3000 level or above, not in major)		3
	Credits	15
Semester Six		
SPN 3700	Introduction to Hispanic Linguistics	3
SPW course (3000 level) [2]		3
SPN or SPW course (3000 level) [2]		3
Elective (3000 level or above, not in major)		3

Gen Ed Physical Sciences	3
Credits	15
Semester Seven	
SPN or SPW courses (3000/4000 level) [2]	6
SPN or SPW courses (4000 level) [2]	3
Electives (3000 level or above, not in major)	6
Credits	15
Semester Eight	
SPN or SPW courses (4000 level) [2]	9
Electives (3000 level or above, not in major)	6
Credits	15
Total Credits	120

1 SPN 2240 (or SPN 2340) is the first course that earns credit toward the major or minor. SPN 3300 can be taken concurrently with SPN 2240.

2 Some Spanish courses may also fulfill the H and N general education requirements: SPW 3030, SPW 3031, SPW 3100 and SPW 3101, SPN 3510, and SPN 3520; SPN 3440 fulfills the S and N general education categories.

Academic Learning Compact

The Bachelor of Arts in Hispanic and Latin American Languages, Literatures and Linguistics enables students to achieve communicative competence in Spanish and/or Portuguese, with an emphasis on all four language skills: speaking, comprehension, reading, and writing. Students will become knowledgeable in the areas of Hispanic and Lusophone cultures, literatures and/or linguistics, and they will learn how to interpret Spanish- and/or Portuguese language texts according to their cultural, literary and linguistic content.

Before Graduating Students Must

- Complete all requirements for the baccalaureate degree, as determined by faculty.
- Satisfactorily complete a written assignment in a 4000-level course that includes the written analysis of a text according to its cultural, literary and/or linguistic content. The text analyzed and the analysis will be in Spanish/Portuguese.
- Satisfactorily deliver an oral presentation in Spanish/Portuguese on the topic of the written paper. Presentation will include answering questions from audience members.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify cultural correlates, literary production and/or linguistic structure of texts written in Spanish and/or Portuguese.

Critical Thinking

2. Analyze cultural correlates, literary production and/or linguistic structure of texts written in Spanish and/or Portuguese.

Communication

3. Demonstrate competence in written Spanish and/or Portuguese, including knowledge of grammar, vocabulary, orthography and appropriate stylistic conventions.
4. Demonstrate communicative competence in spoken Spanish and/or Portuguese, including the ability to understand the spoken language, speak with correct grammar, vocabulary and pronunciation, and use appropriate registers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
SPN 2240; POR 3224	I	I	I	I
SPN 3300; POR 3242	R	R	R	R
SPN 3510/SPN 3520; POR 3500/POR 3502	I, R	I, R	I, R	I, R
SPN 3700; POR 3701	I, R	I, R	I, R	I, R
SPW 3030/SPW 3031/ SPW 3100/SPW 3101	I, R	I, R	I, R	I, R
SPN or POR course, 4000 level	R, A	R, A	R, A	R, A

SPW or POW course, 4000 level	R, A	R, A	R, A	R, A

Assessment Types

- Written paper
- Oral presentation/discussion

Spanish for the Professions Certificate

The Spanish for the professions certificate provides the linguistic skills and cultural knowledge necessary for working in our increasingly global community, focusing specifically on the Spanish-speaking world. Coursework builds cultural background and communicative proficiency, while providing profession-specific language and experience.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 12 | Completed with minimum grades of C
- **Contact:** Email (moreland@ufl.edu?Subject=Spanish for the Professions Certificate)
- **Additional Information**
- **Related Spanish Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

To be eligible to complete the certificate, students must have a minimum grade of C in SPN 3300 or SPN 3350, or equivalent background. Nine of the twelve credits must be earned in a UF program. At least nine credits of coursework must be unique to the Spanish for the Professions certificate out of all other certificates and minors.

Required Courses

Code	Title	Credits
SPN 3414	Advanced Spanish Conversation 2	3
or SPN 4314	Advanced Spanish Composition and Structure for Heritage Learners	
SPN 3510	Culture and Civilization of Spain	3
or SPN 3520	Culture and Civilization of Spanish America	
SPN 3948	Spanish in the Community	3
Select one professional Spanish course:		3
SPN 3036	Spanish for Health Professions	
SPN 3440	Commercial Spanish	
SPN 3443	Marketing and Advertising in the Spanish-Speaking World	
SPN 3451	Spanish Translation and Interpretation: Theory and Practice	
SPN 3831	Spanish for the Legal Professions	
SPN 3930	Topics in Spanish and Spanish American Culture and Civilization (Spanish for Educators) [1]	
Total Credits		12

[1] Or an alternative selected topics section approved by the undergraduate coordinator.

Students must also achieve a minimum score of 50 on the Versant Spanish Test (at student's cost).

Related Spanish Programs

- Bachelor of Arts in Spanish (p. 942)
- Spanish minor (p. 947)

Spanish Minor

The Spanish minor offers excellent preparation for a career in virtually any field, and especially in areas such as business, journalism, telecommunications, law, medicine, education, and tourism.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Related Spanish Programs**

A minimum of nine credits must be completed at the University of Florida, including one 4000-level course. No more than three credits of SPN 4905 can apply.

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Certain 3000/4000-level courses have prerequisites:

- For SPN 4420: SPN 3301
- For 4000-level SPN linguistics courses: SPN 3700
- For SPN 4840: SPN 4780
- For 4000-level SPW courses: one SPW 3000-level course

Required Courses

Code	Title	Credits
SPN 2240	Intensive Communication Skills	3
or SPN 2340	Introduction to Reading and Writing Spanish for Heritage Learners	
SPN 3300	Spanish Grammar and Composition 1	3
or SPN 3350	Spanish Grammar and Composition for Heritage Learners	
SPN or SPW courses (3000/4000 level; at least three credits at the 4000 level)		12
Total Credits		18

Related Spanish Programs

- Bachelor of Arts in Spanish (p. 942)
- Spanish for the Professions certificate (p. 947)

Statistics

Statistics, the science of learning from data, has become increasingly important as scientists, businesses, and governments rely more and more on data-driven decision-making. Statisticians work in many areas, including business, economics, medicine, epidemiology, agriculture, environmental sciences, sports, and all aspects of government. With the increasing digitization and networking of society, data have become ever more ubiquitous, further expanding the demand for statisticians and their expertise in the collection and analysis of data.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 950) | Bachelor of Science (p. 955)
- **Credits for Degree:** 120
- **Contact:** Email (dathien@stat.ufl.edu?Subject=Statistics Major)
- **Additional Information**
- **Related Statistics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Statistics majors learn how to design studies that effectively address the purpose of a research project and how to properly analyze the data collected in such studies. Core courses cover statistical methods applicable in a wide variety of settings (e.g., regression and design of experiments) as well as the conceptual and mathematical foundations of statistics. Other courses explore specific data types often encountered in practical settings. Statistics majors have the option to minor in actuarial science, a profession involving the statistical and financial practices of insurance.

Students who wish to major in statistics must consult a department advisor early in their programs.

Coursework for the Major

The College of Liberal Arts and Sciences offers the Bachelor of Science and the Bachelor of Arts in statistics.

Bachelor of Arts

Intended for students who wish to pursue a career in the field of statistics or to teach statistics at the secondary-school level, but who do not currently contemplate graduate study in statistics.

Bachelor of Science

Intended for students who wish to pursue graduate study in statistics or a closely related area, and for other strong students with a deeper interest in the mathematical foundations of statistics.

Students must receive minimum grades of C within two attempts (including withdrawals) in every required core course and in every course counted toward the 12 credit elective requirement, with the exception of MAC 2312 and MAC 2313 where students must receive a minimum grade of B-. Students cannot retake core or statistics elective courses after earning a minimum grade of C, with the exception of MAC 2312 and MAC 2313, in which students must receive a minimum grade of B-. A minimum GPA of 2.0 must be achieved on all attempts of core and major elective courses and 2.67 on MAC 2312 and MAC 2313. The grades from all attempts to satisfy core requirements will be used to compute the minimum GPA. A minimum of 18 credits of major coursework must be taken at UF, including a minimum of 12 credits of core coursework.

Required Coursework for Both Degrees

The B.A. in statistics requires a minimum of 42 credits in statistics and related coursework. The B.S. in statistics requires a minimum of 49 credits in statistics and related coursework. It is important that the prerequisites of each class are met before the class is attempted.

Code	Title	Credits
Core		
Select one:		12
MAC 2311	Analytic Geometry and Calculus 1	
& MAC 2312	and Analytic Geometry and Calculus 2	
& MAC 2313	and Analytic Geometry and Calculus 3	
MAC 3472	Honors Calculus 1	
& MAC 3473	and Honors Calculus 2	
& MAC 3474	and Honors Calculus 3	
STA 4210	Regression Analysis [1]	3
STA 4211	Design of Experiments [1,2,4]	3
STA 4321	Introduction to Probability [1]	3
STA 4322	Introduction to Statistics Theory [1,3]	3
STA 4504	Categorical Data Analysis	3
Statistics Electives		
Select two:		6
STA 4222	Sample Survey Design	
STA 4502	Nonparametric Statistical Methods	
STA 4702	Multivariate Statistical Methods	
STA 4712	Introduction to Survival Analysis	
STA 4821	Stochastic Processes	
STA 4853	Introduction to Time Series and Forecasting	
STA 4930	Special Topics	
Total Credits		33

1 The course sequences, STA 4210-STA 4211 and STA 4321-STA 4322 should be completed by the end of the junior year.

2 Prerequisite: STA 4210.

3 Prerequisite: STA 4321.

4 Students pursuing the major must enroll in the restricted to STA majors only section of STA 4211.

Combined Degree Program

Superior students can earn both the bachelor's and master's degrees in a shorter time than typically would be possible by counting up to 12 credits of approved graduate courses toward both degrees. For information and application, contact the undergraduate or graduate coordinator.

Relevant Minors and/or Certificates

Statistics majors may want to consider a minor in actuarial science, which prepares students for careers as actuaries. Required courses cover the material for the beginning examinations and VEE credits leading to an associateship in the major national actuarial societies.

Related Statistics Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Statistics minor (p. 959)

Academic Learning Compact

The statistics major enables students to achieve proficiency in the fundamentals of statistical reasoning. Through study of both theoretical and applied statistics and through data analysis projects, students will gain knowledge in problem solving, statistical applications and data-based inferences. Emphasis is on developing the ability to approach real world problems and through the use of statistical methods to be able to analyze and to draw valid scientific inferences.

Before Graduating Students Must

- Complete an exam on the fundamentals of statistics, which will be 5% of your grade in STA 4211.
- Complete a data analysis project, which will be 10% of your grade in STA 4211.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, define and describe concepts and issues in statistics, including those involved in designing a statistical study, in statistical estimation and in tests of hypotheses.

Critical Thinking

2. Identify sources of variability in a given problem setting and formulate an appropriate statistical analysis.

Communication

3. Clearly and effectively present ideas in speech and in writing concerning statistical issues and analyses of data.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
STA 4210	I	I	I
STA 4211	A	A	A
STA 4222	R	R	R
STA 4321	I		
STA 4322	I		
STA 4502	R	R	R
STA 4504	R	R	R
STA 4702	R	R	R
STA 4712	R	R	R
STA 4853	R	R	R

Assessment Types

- Exams
- Projects
- Written and oral presentations

Statistics | BA

Statistics, the science of learning from data, has become increasingly important as scientists, businesses, and governments rely more and more on data-driven decision-making. Statisticians work in many areas, including business, economics, medicine, epidemiology, agriculture, environmental sciences, sports, and all aspects of government. With the increasing digitization and networking of society, data have become ever more ubiquitous, further expanding the demand for statisticians and their expertise in the collection and analysis of data.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 950) | Bachelor of Science (p. 955)
- **Credits for Degree:** 120
- **Contact:** Email (dathien@stat.ufl.edu?Subject=Statistics Major)
- **Additional Information**
- **Related Statistics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Statistics majors learn how to design studies that effectively address the purpose of a research project and how to properly analyze the data collected in such studies. Core courses cover statistical methods applicable in a wide variety of settings (e.g., regression and design of experiments) as well as the conceptual and mathematical foundations of statistics. Other courses explore specific data types often encountered in practical settings. Statistics majors have the option to minor in actuarial science, a profession involving the statistical and financial practices of insurance.

Students who wish to major in statistics must consult a department advisor early in their programs.

Coursework for the Major

The College of Liberal Arts and Sciences offers the Bachelor of Science and the Bachelor of Arts in statistics.

Bachelor of Arts

Intended for students who wish to pursue a career in the field of statistics or to teach statistics at the secondary-school level, but who do not currently contemplate graduate study in statistics.

Bachelor of Science

Intended for students who wish to pursue graduate study in statistics or a closely related area, and for other strong students with a deeper interest in the mathematical foundations of statistics.

Students must receive minimum grades of C within two attempts (including withdrawals) in every required core course and in every course counted toward the 12 credit elective requirement, with the exception of MAC 2312 and MAC 2313 where students must receive a minimum grade of B-. Students cannot retake core or statistics elective courses after earning a minimum grade of C, with the exception of MAC 2312 and MAC 2313, in which students must receive a minimum grade of B-. A minimum GPA of 2.0 must be achieved on all attempts of core and major elective courses and 2.67 on MAC 2312 and MAC 2313. The grades from all attempts to satisfy core requirements will be used to compute the minimum GPA. A minimum of 18 credits of major coursework must be taken at UF, including a minimum of 12 credits of core coursework.

Required Coursework for Both Degrees

The B.A. in statistics requires a minimum of 42 credits in statistics and related coursework. The B.S. in statistics requires a minimum of 49 credits in statistics and related coursework. It is important that the prerequisites of each class are met before the class is attempted.

Code	Title	Credits
Core		
Select one:		12
MAC 2311	Analytic Geometry and Calculus 1	
& MAC 2312	and Analytic Geometry and Calculus 2	
& MAC 2313	and Analytic Geometry and Calculus 3	
MAC 3472	Honors Calculus 1	
& MAC 3473	and Honors Calculus 2	
& MAC 3474	and Honors Calculus 3	
STA 4210	Regression Analysis [1]	3
STA 4211	Design of Experiments [1,2,4]	3
STA 4321	Introduction to Probability [1]	3
STA 4322	Introduction to Statistics Theory [1,3]	3
STA 4504	Categorical Data Analysis	3
Statistics Electives		
Select two:		6
STA 4222	Sample Survey Design	
STA 4502	Nonparametric Statistical Methods	
STA 4702	Multivariate Statistical Methods	
STA 4712	Introduction to Survival Analysis	
STA 4821	Stochastic Processes	

STA 4853	Introduction to Time Series and Forecasting	
STA 4930	Special Topics	
Total Credits		33

1 The course sequences, STA 4210-STA 4211 and STA 4321-STA 4322 should be completed by the end of the junior year.

2 Prerequisite: STA 4210.

3 Prerequisite: STA 4321.

4 Students pursuing the major must enroll in the restricted to STA majors only section of STA 4211.

Combined Degree Program

Superior students can earn both the bachelor's and master's degrees in a shorter time than typically would be possible by counting up to 12 credits of approved graduate courses toward both degrees. For information and application, contact the undergraduate or graduate coordinator.

Relevant Minors and/or Certificates

Statistics majors may want to consider a minor in actuarial science, which prepares students for careers as actuaries. Required courses cover the material for the beginning examinations and VEE credits leading to an associateship in the major national actuarial societies.

Related Statistics Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Statistics minor (p. 959)

Bachelor of Arts

The B.A. is intended for students who wish to pursue a career in the field of statistics or to teach statistics at the secondary-school level, but who do not currently contemplate graduate study in statistics.

Additional Required Coursework for B.A.

Code	Title	Credits
Core		
MAS 4105	Linear Algebra 1 [1]	3-4
or MAS 3114	Computational Linear Algebra	
Programming Elective		
Select one of the following:		3
COP 2271	Computer Programming for Engineers	
& 2271L	and Computer Programming for Engineers Laboratory	
COP 2800	Computer Programming Using JAVA	
COP 3275	Computer Programming Using C	
COP 3502	Programming Fundamentals 1	
Math and Science Elective		
Select one of the following:		3-4
COT 4501	Numerical Analysis: a Computational Approach	
ESI 3312	Operations Research 1	
MAA 4102	Introduction to Advanced Calculus for Engineers and Physical Scientists 1	
MAA 4211	Advanced Calculus 1	
MAA 4402	Functions of a Complex Variable	
MAD 4401	Introduction to Numerical Analysis	
MAS 4105	Linear Algebra 1	
MHF 4102	Elements of Set Theory	
Total Credits		9-11

1 Prerequisite: MHF 3202.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=270501&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete MAC 1147 or higher-level calculus
- 2.0 UF GPA required

Semester 3

- Complete MAC 2311
- 2.0 UF GPA required

Semester 4

- Complete MAC 2312 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete MAC 2313 and a programming elective or any STA course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

MAC 2312, MAC 2313, MAC 4105, and the math elective count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Science laboratory (Gen Ed Biological or Physical Sciences)		1
	Credits	14
Semester Two		
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
Gen Ed Biological or Physical Sciences (area **not** taken in semester one)		3
Elective		3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	16
Semester Three		
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**)	
STA 3032	Engineering Statistics (**Critical Tracking**; Gen Ed Mathematics)	
Foreign language		4-5
Gen Ed Social and Behavioral Sciences		3
	Credits	14-15

Semester Four		
MAS 3114	Computational Linear Algebra	3
Elective (needed if placed out of language with SAT II)		3
Foreign language		3-5
Gen Ed Humanities		3
Programming elective		3
	Credits	15-17
Semester Five		
STA 4210	Regression Analysis (Gen Ed Mathematics)	3
STA 4321	Introduction to Probability (Gen Ed Mathematics)	3
Elective or foreign language if 4-3-3 option		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Six		
STA 4211	Design of Experiments	3
STA 4322	Introduction to Statistics Theory (Gen Ed Mathematics)	3
STA 4504	Categorical Data Analysis	3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
	Credits	15
Semester Seven		
Electives		6
Electives (3000 level or above, not in major)		7
STA elective		3
	Credits	16
Semester Eight		
Electives		9
Math science elective		3
STA elective		3
	Credits	15
	Total Credits	120

Academic Learning Compact

The statistics major enables students to achieve proficiency in the fundamentals of statistical reasoning. Through study of both theoretical and applied statistics and through data analysis projects, students will gain knowledge in problem solving, statistical applications and data-based inferences. Emphasis is on developing the ability to approach real world problems and through the use of statistical methods to be able to analyze and to draw valid scientific inferences.

Before Graduating Students Must

- Complete an exam on the fundamentals of statistics, which will be 5% of your grade in STA 4211.
- Complete a data analysis project, which will be 10% of your grade in STA 4211.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, define and describe concepts and issues in statistics, including those involved in designing a statistical study, in statistical estimation and in tests of hypotheses.

Critical Thinking

2. Identify sources of variability in a given problem setting and formulate an appropriate statistical analysis.

Communication

3. Clearly and effectively present ideas in speech and in writing concerning statistical issues and analyses of data.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
STA 4210	I	I	I
STA 4211	A	A	A
STA 4222	R	R	R
STA 4321	I		
STA 4322	I		
STA 4502	R	R	R
STA 4504	R	R	R
STA 4702	R	R	R
STA 4712	R	R	R
STA 4853	R	R	R

Assessment Types

- Exams
- Projects
- Written and oral presentations

Statistics | BS

Statistics, the science of learning from data, has become increasingly important as scientists, businesses, and governments rely more and more on data-driven decision-making. Statisticians work in many areas, including business, economics, medicine, epidemiology, agriculture, environmental sciences, sports, and all aspects of government. With the increasing digitization and networking of society, data have become ever more ubiquitous, further expanding the demand for statisticians and their expertise in the collection and analysis of data.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degrees:** Bachelor of Arts (p. 950) | Bachelor of Science (p. 955)
- **Credits for Degree:** 120
- **Contact:** Email (dathien@stat.ufl.edu?Subject=Statistics Major)
- **Additional Information**
- **Related Statistics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Statistics majors learn how to design studies that effectively address the purpose of a research project and how to properly analyze the data collected in such studies. Core courses cover statistical methods applicable in a wide variety of settings (e.g., regression and design of experiments) as well as the conceptual and mathematical foundations of statistics. Other courses explore specific data types often encountered in practical settings. Statistics majors have the option to minor in actuarial science, a profession involving the statistical and financial practices of insurance.

Students who wish to major in statistics must consult a department advisor early in their programs.

Coursework for the Major

The College of Liberal Arts and Sciences offers the Bachelor of Science and the Bachelor of Arts in statistics.

Bachelor of Arts

Intended for students who wish to pursue a career in the field of statistics or to teach statistics at the secondary-school level, but who do not currently contemplate graduate study in statistics.

Bachelor of Science

Intended for students who wish to pursue graduate study in statistics or a closely related area, and for other strong students with a deeper interest in the mathematical foundations of statistics.

Students must receive minimum grades of C within two attempts (including withdrawals) in every required core course and in every course counted toward the 12 credit elective requirement, with the exception of MAC 2312 and MAC 2313 where students must receive a minimum grade of B-. Students cannot retake core or statistics elective courses after earning a minimum grade of C, with the exception of MAC 2312 and MAC 2313, in which students must receive a minimum grade of B-. A minimum GPA of 2.0 must be achieved on all attempts of core and major elective courses and

2.67 on MAC 2312 and MAC 2313. The grades from all attempts to satisfy core requirements will be used to compute the minimum GPA. A minimum of 18 credits of major coursework must be taken at UF, including a minimum of 12 credits of core coursework.

Required Coursework for Both Degrees

The B.A. in statistics requires a minimum of 42 credits in statistics and related coursework. The B.S. in statistics requires a minimum of 49 credits in statistics and related coursework. It is important that the prerequisites of each class are met before the class is attempted.

Code	Title	Credits
Core		
Select one:		12
MAC 2311	Analytic Geometry and Calculus 1	
& MAC 2312	and Analytic Geometry and Calculus 2	
& MAC 2313	and Analytic Geometry and Calculus 3	
MAC 3472	Honors Calculus 1	
& MAC 3473	and Honors Calculus 2	
& MAC 3474	and Honors Calculus 3	
STA 4210	Regression Analysis [1]	3
STA 4211	Design of Experiments [1,2,4]	3
STA 4321	Introduction to Probability [1]	3
STA 4322	Introduction to Statistics Theory [1,3]	3
STA 4504	Categorical Data Analysis	3
Statistics Electives		
Select two:		6
STA 4222	Sample Survey Design	
STA 4502	Nonparametric Statistical Methods	
STA 4702	Multivariate Statistical Methods	
STA 4712	Introduction to Survival Analysis	
STA 4821	Stochastic Processes	
STA 4853	Introduction to Time Series and Forecasting	
STA 4930	Special Topics	
Total Credits		33

1. The course sequences, STA 4210-STA 4211 and STA 4321-STA 4322 should be completed by the end of the junior year.
2. Prerequisite: STA 4210.
3. Prerequisite: STA 4321.
4. Students pursuing the major must enroll in the restricted to STA majors only section of STA 4211.

Combined Degree Program

Superior students can earn both the bachelor's and master's degrees in a shorter time than typically would be possible by counting up to 12 credits of approved graduate courses toward both degrees. For information and application, contact the undergraduate or graduate coordinator.

Relevant Minors and/or Certificates

Statistics majors may want to consider a minor in actuarial science, which prepares students for careers as actuaries. Required courses cover the material for the beginning examinations and VEE credits leading to an associateship in the major national actuarial societies.

Related Statistics Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Statistics minor (p. 959)

Bachelor of Science

The B.S. is intended for students who wish to pursue graduate study in statistics or a closely related area, and for other strong students with a deeper interest in the mathematical foundations of statistics.

Additional Required Coursework for B.S.

Code	Title	Credits
Core		
MAS 4105	Linear Algebra 1 [1]	4
MHF 3202	Sets and Logic	3

Programming Elective		
Select one of the following:		3
COP 2800	Computer Programming Using JAVA	
COP 3275	Computer Programming Using C	
COP 3502	Programming Fundamentals 1	
Math and Science Electives		
Select two of the following:		6
MAA 4211	Advanced Calculus 1	
MAA 4212	Advanced Calculus 2	
MAA 4402	Functions of a Complex Variable	
MAD 4401	Introduction to Numerical Analysis	
MHF 4102	Elements of Set Theory	
Total Credits		16

[1] Prerequisite: MHF 3202.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=270501&track=01) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete MAC 1147 or higher-level calculus
- 2.0 UF GPA required

Semester 3

- Complete MAC 2311
- 2.0 UF GPA required

Semester 4

- Complete MAC 2312 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete MAC 2313 and a programming elective or any STA course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

MAC 2312, MAC 2313, MAS 4105, and the math elective count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4

State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Gen Ed Social and Behavioral Sciences		3
Science laboratory (Gen Ed Biological or Physical Sciences)		1
	Credits	14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Gen Ed Biological or Physical Sciences (area **not** taken in semester one)		3
	Credits	16
Semester Three		
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
MHF 3202	Sets and Logic	3
Select one:		3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**)	
STA 3032	Engineering Statistics (**Critical Tracking**; Gen Ed Mathematics)	
Foreign language		3-5
	Credits	13-15
Semester Four		
MAS 4105	Linear Algebra 1	4
Elective (needed if placed out of language with SAT II)		3
Foreign language		3-5
Gen Ed Humanities		3
Programming elective		3
	Credits	16-18
Semester Five		
STA 4210	Regression Analysis (Gen Ed Mathematics)	3
STA 4321	Introduction to Probability (Gen Ed Mathematics)	3
Foreign language if 4-3-3 option		3
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Six		
STA 4211	Design of Experiments	3
STA 4322	Introduction to Statistics Theory (Gen Ed Mathematics)	3
STA 4504	Categorical Data Analysis	3
Gen Ed Biological Sciences		3
Gen Ed Composition; Writing Requirement		3
	Credits	15
Semester Seven		
Elective (3000 level or above, not in major)		3
Electives		10
STA elective		3
	Credits	16
Semester Eight		
Electives		6
Math science electives		6
STA elective		3
	Credits	15
	Total Credits	120

Academic Learning Compact

The statistics major enables students to achieve proficiency in the fundamentals of statistical reasoning. Through study of both theoretical and applied statistics and through data analysis projects, students will gain knowledge in problem solving, statistical applications and data-based inferences. Emphasis is on developing the ability to approach real world problems and through the use of statistical methods to be able to analyze and to draw valid scientific inferences.

Before Graduating Students Must

- Complete an exam on the fundamentals of statistics, which will be 5% of your grade in STA 4211.
- Complete a data analysis project, which will be 10% of your grade in STA 4211.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, define and describe concepts and issues in statistics, including those involved in designing a statistical study, in statistical estimation and in tests of hypotheses.

Critical Thinking

2. Identify sources of variability in a given problem setting and formulate an appropriate statistical analysis.

Communication

3. Clearly and effectively present ideas in speech and in writing concerning statistical issues and analyses of data.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
STA 4210	I	I	I
STA 4211	A	A	A
STA 4222	R	R	R
STA 4321	I		
STA 4322	I		
STA 4502	R	R	R
STA 4504	R	R	R
STA 4702	R	R	R
STA 4712	R	R	R
STA 4853	R	R	R

Assessment Types

- Exams
- Projects
- Written and oral presentations

Statistics Minor

The minor in statistics complements and enhances a wide variety of undergraduate majors by providing valuable training in data analysis and statistical modeling and inference.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C and no optional S-U
- **Related Statistics Programs**

- This minor requires a minimum of five STA courses.
  - The sequence STA 4210 and STA 4211, and at least three approved electives.
- STA 3024 or STA 3032 should be taken prior to the STA 4210 and STA 4211.
- No more than three transfer credits may be applied to the minor.
- Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
STA 4210	Regression Analysis	3
STA 4211	Design of Experiments	3
Approved electives		9
Total Credits		15

Approved Electives

Code	Title	Credits
STA 3024	Introduction to Statistics 2	3
or STA 3032	Engineering Statistics	
STA 4222	Sample Survey Design	3
STA 4321	Introduction to Probability	3
STA 4322	Introduction to Statistics Theory	3
STA 4502	Nonparametric Statistical Methods	3
STA 4504	Categorical Data Analysis	3
STA 4702	Multivariate Statistical Methods	3
STA 4712	Introduction to Survival Analysis	3
STA 4821	Stochastic Processes	3
STA 4853	Introduction to Time Series and Forecasting	3
STA 4911	Undergraduate Research in Statistics	0-3
STA 4930	Special Topics	3

Related Statistics Programs

- Bachelor of Arts or Bachelor of Science in Statistics (p. 948)

Sustainability Studies

A sustainability studies major prepares students for global citizenship with a firm grounding in the natural sciences, the social sciences, and the humanities. Students in the major explore how to maintain ecological and environmental health, create economic welfare, and pursue social justice in a changing world. Sustainability studies students gain understanding of the ways in which these three goals are interdependent and explore how they best can be pursued over the long term on local, national, and global levels.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Contact:** Email (advisor@advising.ufl.edu?Subject=Sustainability Studies Major)
- **Additional Information**
- **Related Sustainability Studies Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Sustainability studies investigates the means to maintain environmental health, create economic welfare, and pursue social justice in a changing world. Students gain an understanding of the ways in which these three goals are interdependent and explore how they can best be pursued in the long term at local, national, and global levels.

Coursework

Students are required to complete 33 credits of sustainability studies coursework; 15 of these 33 credits must be at the 3000/4000 level. All courses must be completed with minimum grades of C and a minimum of 15 credits of sustainability studies courses must be completed at UF.

For more information about Sustainability Studies and listings of newly available Core Courses and Cluster Courses, please visit the program website. More Info (https://sustainability.clas.ufl.edu)

Code	Title	Credits
Required Coursework		
IDS 2154	Facets of Sustainability	3

IDS 4942	Sustainability in Action	3
Core Courses		
Select one 2000-level core course from each disciplinary groups:		9
Humanities		
AMH 2631	History of Sustainability	
CLA 2521	Classical Antiquity and Sustainability	
REL 2071	Sustainability and Religion	
Natural Sciences		
BSC 2862	Global Change Ecology and Sustainability	
Social Sciences		
ANT 2402	Anthropology of Sustainability	
POS 2032	Politics of Sustainability	
Cluster Courses		
Select six cluster courses with at least one course chosen from each of the four clusters: [1]		18
Cluster A: Ethics, Culture and Human Behavior		
Cluster B: Economics, Law and Policy		
Cluster C: Production Systems and the Built Environment		
Cluster D: Ecology and Environmental Stewardship		
Total Credits		33

[1] Four of the six courses (12 credits) must be taken at the 3000 level or higher

Approved Cluster Courses

Cluster A | Ethics, Culture and Human Behavior

Code	Title	Credits
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences)	3
AMH 3630	American Environmental History	3
ANT 3420	Consumer Culture	3
ANT 4006	Human Rights and Culture	3
ANT 4403	Environment and Cultural Behavior (Gen Ed Social and Behavioral Sciences)	3
FOR 3202	Society and Natural Resources (Gen Ed Social and Behavioral Sciences)	3
FNR 4070C	Environmental Education Program Development	3
GEO 3427	Plants, Health and Spirituality	3
PHI 3633	Bioethics	3
PHM 3032	Ethics and Ecology (Gen Ed Humanities)	3
REL 2104	Environmental Ethics (Gen Ed Humanities)	3
REL 2166	Religion and the Environmental Crisis (Gen Ed Humanities and International)	3
REL 3103	Religion and Nature in North America (Gen Ed Humanities)	3
REL 3492	Religion Ethics and Nature (Gen Ed Humanities)	3
REL 4168	Religion, Nature and Social Change	3
SYD 4020	Population (Gen Ed Social and Behavioral Sciences and International)	3
SYD 4510	Environment and Society	3
SYG 2010	Social Problems (Gen Ed Social and Behavioral Sciences)	3
SYO 4530	Social Inequality (Gen Ed Social and Behavioral Sciences and Diversity)	3
WIS 4523	Human Dimensions of Natural Resource Conservation	3
WST 3349	Ecofeminism	3
WST 3415	Transnational Feminism	3
WST 3663	Gender and Food Politics	3

Cluster B | Economics, Law and Policy

Code	Title	Credits
AEB 2451	Economics of Resource Use (Gen Ed Social and Behavioral Sciences)	3
AEB 3450	Introduction to Natural Resource and Environmental Economics	3
AEB 4123	Agricultural and Natural Resource Law	3
AEB 4282	International Humanitarian Assistance (Gen Ed Social and Behavioral Sciences and International)	3
AEB 4283	International Development Policy (Gen Ed Social and Behavioral Sciences)	3
CPO 4793	Environmental Politics in the Global South	3
ECP 3302	Environmental Economics and Resource Policy (Gen Ed Social and Behavioral Sciences)	4

EUH 3683	The History of Consumption	3
FNR 4660	Natural Resource Policy and Economics	3
FOR 4664	Sustainable Ecotourism Development	3
FYC 4408	Organizational Leadership for Nonprofits	3
FYC 4409	Working with Nonprofit Organizations in Community Settings	3
FYC 4427	Non-Governmental Organizations	3
GEO 2500	Global and Regional Economies (Gen Ed Social and Behavioral Sciences)	3
GEO 3372	Conservation of Resources	3
INR 4350	International Environmental Relations	3
LEI 3120	Introduction to Outdoor Recreation and Parks	3
POT 3503	Environmental Ethics and Politics	3
PUP 4224	Florida Environmental Politics	3
SYO 4352	Consumption, Economy and Society (Gen Ed Social and Behavioral Sciences)	3

Cluster C | Production Systems and the Built Environment

Code	Title	Credits
ARC 1000	Architecture and Humanity (Gen Ed Humanities)	3
ARC 3291	Special Studies in Architecture	1-6
ARC 3880	Sustainable Architecture	3
ARC 4882	Vernacular Architecture and Sustainability	3
AGG 3501	Environment, Food and Society (Gen Ed Biological Sciences)	3
AGR 4212	Alternative Cropping Systems	3
ALS 3133	Agricultural and Environmental Quality (Gen Ed Physical Sciences)	3
AOM 2520	Global Sustainable Energy: Past, Present and Future	3
BCN 1582	International Sustainable Development (Gen Ed Social and Behavioral Sciences and International)	3
BCN 3730	Construction, Safety, Health and the Environment	3
DCP 3200	Methods of Inquiry for Sustainability and the Built Environment	3
DCP 3210	Sustainable Solutions for the Built Environment	3
DCP 3220	Social and Cultural Sustainability and the Built Environment	3
DCP 4941	Practicum in Sustainability and the Built Environment	6
EES 3008	Energy and Environment (Gen Ed Physical Sciences)	3
EES 4050	Environmental Planning and Design	3
ENV 4932	Special Problems in Environmental Engineering Sciences	1-4
EES 4316	Industrial Ecology	3
EES 4401	Public Health Engineering (Gen Ed Physical Sciences)	3
FAS 2024	Sustainable Fisheries (Gen Ed Biological Sciences)	3
FOR 3162C	Silviculture	4
FOR 4060	Global Forests	3
FOR 4090C	Urban Forestry	3
HOS 3281C	Organic and Sustainable Crop Production	3
HOS 4283C	Advanced Organic and Sustainable Crop Production	3
LAA 2330	Site Analysis	3
LAA 4260	Site Designed Green Roofs	3
SWS 3022	Introduction to Soils in the Environment (Gen Ed Physical Sciences)	3
SWS 4116	Environmental Nutrient Management (Gen Ed Physical Sciences)	3
SWS 4231C	Soil, Water and Land Use (Gen Ed Physical Sciences)	3
SWS 4233	Soil and Water Conservation	3
SWS 4245	Water Resource Sustainability	3
SWS 4550	Soils, Water and Public Health	3
SWS 4932	Special Topics in Soil and Water Science	1-3
URP 4000	Preview of Urban and Regional Planning (Gen Ed Humanities)	3

Cluster D | Ecology and Environmental Stewardship

Code	Title	Credits
BOT 2800C	Plants in Human Affairs (Gen Ed Biological Sciences)	3
BSC 2005	Biological Sciences (Gen Ed Biological Sciences)	3
BSC 2011	Integrated Principles of Biology 2 (Gen Ed Biological Sciences)	3
EES 4103	Applied Ecology (Gen Ed Biological Sciences)	2
ENV 4101	Elements of Atmospheric Pollution (Gen Ed Physical Sciences)	3
FOR 2662	Forests for the Future (Gen Ed Social and Behavioral Sciences; Writing Requirement)	3
FOR 3004	Forests, Conservation and People (Gen Ed Biological Sciences)	3

FOR 3153C	Forest Ecology (Gen Ed Biological Sciences)	3
GEO 2200	Physical Geography (Gen Ed Physical Sciences)	3
GEO 3250	Climatology (Gen Ed Physical Sciences)	3
GEO 3280	Principles of Geographic Hydrology (Gen Ed Physical Sciences)	4
GEO 3341	Extreme Floods (Gen Ed Physical Sciences and International)	3
GEO 3352	The Human Footprint on Landscape	3
GLY 2010C	Physical Geology (Gen Ed Physical Sciences)	4
GLY 2030C	Environmental and Engineering Geology (Gen Ed Physical Sciences)	3
GLY 3074	Oceans and Global Climate Change (Gen Ed Physical Sciences)	3
GLY 3083C	Fundamentals of Marine Sciences (Gen Ed Physical Sciences)	3
GLY 3882C	Hydrogeology and Human Affairs	3
PCB 3034C	Introduction to Ecology	4
PCB 3601C	Plant Ecology	3
PCB 4043C	General Ecology	4
SWS 2007	The World of Water (Gen Ed Physical Sciences)	3
SWS 2008	Land and Life (Gen Ed Biological Sciences)	3
SWS 4223	Environmental Biogeochemistry	3
SWS 4244	Wetlands	3
WIS 2040	Wildlife Issues in a Changing World (Gen Ed Biological Sciences)	3
WIS 2552	Biodiversity Conservation: Global Perspectives (Gen Ed Biological Sciences and International)	3
WIS 3401	Wildlife Ecology and Management	3
WIS 3402	Wildlife of Florida	3
WIS 3434	Tropical Wildlife	3
WIS 4554	Conservation Biology	3
WIS 4934	Topics in Wildlife Ecology and Conservation	1-4

Related Sustainability Studies Programs

- Sustainability Studies minor (p. 968)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree (p. 514)**.**

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=303301&track=01) may be used for transfer students.

Five courses required by the end of the fifth semester,

- IDS 2154: required in either semester 1 or 2; and four additional courses - either
  - three Sustainability Studies Core courses (one from each of the disciplinary areas) and one Sustainability Studies Cluster course (at the 3000 level or higher), or
  - two Sustainability Studies Core courses (from different disciplinary areas) and two Sustainability Studies Cluster courses (one must be at the 3000 level or higher).

Semester 1

- Complete IDS 2154 or one critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete IDS 2154 or one critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.5 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 2.75 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 3.0 UF GPA required

Semester 5

- Complete 1 additional critical-tracking course
- 2.0 GPA required for all critical-tracking courses
- 3.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 2154	Facets of Sustainability (**Critical Tracking**)	3
State Core Gen Ed Composition (Writing Requirement)		3
State Core Gen Ed Mathematics (pure math)		3-4
Foreign language		4-5
	Credits	13-15
Semester Two		
ECO 2023	Principles of Microeconomics (recommended; Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Core course (**Critical Tracking**)		3
Science laboratory (Gen Ed Biological or Physical Sciences)		1
Foreign language		3-5
	Credits	14-16
Semester Three		
ECO 2013	Principles of Macroeconomics (recommended; State Core Gen Ed Social and Behavioral Sciences (p. 23))	4
STA 2023	Introduction to Statistics 1 (recommended; Gen Ed Mathematics)	3
State Core Gen Ed Biological or Physical Sciences (p. 23) [1]		3
Core course (**Critical Tracking**)		3
Elective or foreign language if 4-3-3 option		3
	Credits	16
Semester Four		
Gen Ed Biological or Physical Sciences (area **not** taken in semester three) [1]		3
Gen Ed Biological Sciences or elective [1,2]		3
Core course (**Critical Tracking**)		3
State Core Gen Ed Humanities (p. 23) [1]		3
State Core Gen Ed Social and Behavioral Sciences (p. 23) [1,3]		3
	Credits	15
Semester Five		
Gen Ed Composition (Writing Requirement)		3
Cluster courses (**Critical Tracking**)		6
Elective (3000 level or above, not in major)		3

State Core Gen Ed Physical Sciences or elective [1,4]		3
	Credits	15
Semester Six		
Cluster courses		6
Elective		3
Elective (3000 level or above; not in major)		3
State Core Gen Ed Humanities (if needed) or elective [1]		3
	Credits	15
Semester Seven		
Cluster courses		6
Electives		4
Electives (3000 level or above, not in major)		6
	Credits	16
Semester Eight		
IDS 4942	Sustainability in Action (capstone course)	3
Electives credits		7
Electives (3000 level or above, not in major)		6
	Credits	16
	Total Credits	120

1 Depending on the course(s) taken, the sustainability studies core courses and cluster courses may also meet the following general education categories: biological sciences, humanities, international, physical sciences, or social and behavioral sciences. If a general education category is met through a core or cluster course, the student may substitute elective credit where the GE requirement is listed in the model semester plan.

2 If BSC 2862 taken as natural science core course for major

3 If ECO 2013 not taken.

4 If GLY 2038 taken as natural science core course for major

Approved Cluster Courses

Cluster A | Ethics, Culture, and Human Behavior

Code	Title	Credits
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences)	3
AMH 3630	American Environmental History	3
ANT 3420	Consumer Culture	3
ANT 4006	Human Rights and Culture	3
ANT 4403	Environment and Cultural Behavior (Gen Ed Social and Behavioral Sciences)	3
FOR 3202	Society and Natural Resources (Gen Ed Social and Behavioral Sciences)	3
FNR 4070C	Environmental Education Program Development	3
GEO 3427	Plants, Health and Spirituality	3
PHI 3633	Bioethics	3
PHM 3032	Ethics and Ecology (Gen Ed Humanities)	3
REL 2104	Environmental Ethics (Gen Ed Humanities)	3
REL 2166	Religion and the Environmental Crisis (Gen Ed Humanities and International)	3
REL 3103	Religion and Nature in North America (Gen Ed Humanities)	3
REL 3492	Religion Ethics and Nature (Gen Ed Humanities)	3
SYD 4020	Population (Gen Ed Social and Behavioral Sciences and International)	3
SYD 4510	Environment and Society	3
SYG 2010	Social Problems (Gen Ed Social and Behavioral Sciences)	3
SYO 4530	Social Inequality (Gen Ed Social and Behavioral Sciences and Diversity)	3
WIS 4523	Human Dimensions of Natural Resource Conservation	3
WST 3349	Ecofeminism	3

Cluster B | Economics, Law, and Policy

Code	Title	Credits
AEB 2451	Economics of Resource Use (Gen Ed Social and Behavioral Sciences)	3
AEB 3450	Introduction to Natural Resource and Environmental Economics	3
AEB 4123	Agricultural and Natural Resource Law	3

AEB 4282	International Humanitarian Assistance (Gen Ed Social and Behavioral Sciences and International)	3
AEB 4283	International Development Policy (Gen Ed Social and Behavioral Sciences)	3
CPO 4793	Environmental Politics in the Global South	3
ECP 3302	Environmental Economics and Resource Policy (Gen Ed Social and Behavioral Sciences)	4
EUH 3683	The History of Consumption	3
FNR 4660	Natural Resource Policy and Economics	3
FOR 4664	Sustainable Ecotourism Development	3
FYC 4408	Organizational Leadership for Nonprofits	3
FYC 4409	Working with Nonprofit Organizations in Community Settings	3
FYC 4427	Non-Governmental Organizations	3
GEO 2500	Global and Regional Economies (Gen Ed Social and Behavioral Sciences)	3
GEO 3372	Conservation of Resources	3
INR 4350	International Environmental Relations	3
LEI 3120	Introduction to Outdoor Recreation and Parks	3
POT 3503	Environmental Ethics and Politics	3
PUP 4224	Florida Environmental Politics	3
SYO 4352	Consumption, Economy and Society (Gen Ed Social and Behavioral Sciences)	3

Cluster C | Production Systems and the Built Environment

Code	Title	Credits
ARC 1000	Architecture and Humanity (Gen Ed Humanities)	3
ARC 3291	Special Studies in Architecture	1-6
ARC 3880	Sustainable Architecture	3
ARC 4882	Vernacular Architecture and Sustainability	3
AGG 3501	Environment, Food and Society (Gen Ed Biological Sciences)	3
AGR 4212	Alternative Cropping Systems	3
ALS 3133	Agricultural and Environmental Quality (Gen Ed Physical Sciences)	3
AOM 2520	Global Sustainable Energy: Past, Present and Future	3
BCN 1582	International Sustainable Development (Gen Ed Social and Behavioral Sciences and International)	3
BCN 3730	Construction, Safety, Health and the Environment	3
DCP 3200	Methods of Inquiry for Sustainability and the Built Environment	3
DCP 3210	Sustainable Solutions for the Built Environment	3
DCP 3220	Social and Cultural Sustainability and the Built Environment	3
DCP 4941	Practicum in Sustainability and the Built Environment	6
EES 3008	Energy and Environment (Gen Ed Physical Sciences)	3
EES 4050	Environmental Planning and Design	3
EES 4316	Industrial Ecology	3
EES 4401	Public Health Engineering (Gen Ed Physical Sciences)	3
ENV 4932	Special Problems in Environmental Engineering Sciences	1-4
FAS 2024	Sustainable Fisheries (Gen Ed Biological Sciences)	3
FOR 3162C	Silviculture	4
FOR 4060	Global Forests	3
FOR 4090C	Urban Forestry	3
HOS 3281C	Organic and Sustainable Crop Production	3
HOS 4283C	Advanced Organic and Sustainable Crop Production	3
LAA 2330	Site Analysis	3
LAA 4260	Site Designed Green Roofs	3
SWS 3022	Introduction to Soils in the Environment (Gen Ed Physical Sciences)	3
SWS 4116	Environmental Nutrient Management (Gen Ed Physical Sciences)	3
SWS 4231C	Soil, Water and Land Use (Gen Ed Physical Sciences)	3
SWS 4233	Soil and Water Conservation	3
SWS 4245	Water Resource Sustainability	3
SWS 4550	Soils, Water and Public Health	3
SWS 4932	Special Topics in Soil and Water Science	1-3
URP 4000	Preview of Urban and Regional Planning (Gen Ed Humanities)	3

Cluster D | Ecology and Environmental Stewardship

Code	Title	Credits
BOT 2800C	Plants in Human Affairs (Gen Ed Biological Sciences)	3
BSC 2005	Biological Sciences (Gen Ed Biological Sciences)	3

BSC 2011	Integrated Principles of Biology 2 (Gen Ed Biological Sciences)	3
EES 4103	Applied Ecology (Gen Ed Biological Sciences)	2
ENV 4101	Elements of Atmospheric Pollution (Gen Ed Physical Sciences)	3
FOR 2662	Forests for the Future (Gen Ed Social and Behavioral Sciences; Writing Requirement)	3
FOR 3004	Forests, Conservation and People (Gen Ed Biological Sciences)	3
FOR 3153C	Forest Ecology (Gen Ed Biological Sciences)	3
GEO 2200	Physical Geography (Gen Ed Physical Sciences)	3
GEO 3250	Climatology (Gen Ed Physical Sciences)	3
GEO 3280	Principles of Geographic Hydrology (Gen Ed Physical Sciences)	4
GEO 3341	Extreme Floods (Gen Ed Physical Sciences and International)	3
GEO 3352	The Human Footprint on Landscape	3
GLY 2010C	Physical Geology (Gen Ed Physical Sciences)	4
GLY 2030C	Environmental and Engineering Geology (Gen Ed Physical Sciences)	3
GLY 3074	Oceans and Global Climate Change (Gen Ed Physical Sciences)	3
GLY 3083C	Fundamentals of Marine Sciences (Gen Ed Physical Sciences)	3
GLY 3882C	Hydrogeology and Human Affairs	3
PCB 3034C	Introduction to Ecology	4
PCB 3601C	Plant Ecology	3
PCB 4043C	General Ecology	4
SWS 2007	The World of Water (Gen Ed Physical Sciences)	3
SWS 2008	Land and Life (Gen Ed Biological Sciences)	3
SWS 4223	Environmental Biogeochemistry	3
SWS 4244	Wetlands	3
WIS 2040	Wildlife Issues in a Changing World (Gen Ed Biological Sciences)	3
WIS 2552	Biodiversity Conservation: Global Perspectives (Gen Ed Biological Sciences and International)	3
WIS 3401	Wildlife Ecology and Management	3
WIS 3402	Wildlife of Florida	3
WIS 3434	Tropical Wildlife	3
WIS 4554	Conservation Biology	3
WIS 4934	Topics in Wildlife Ecology and Conservation	1-4

Academic Learning Compact

The Bachelor of Arts in sustainability studies requires students to demonstrate an understanding of the relationship between the goals of sustainability and the activities of the built environment disciplines, including architecture, building construction, historic preservation, interior design, landscape architecture and urban and regional planning.

Before Graduating Students Must

- Complete a capstone or independent research project, present your results to a committee of the program's faculty and receive acceptable assessment.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Define and explain sustainability scholarship, including natural scientific, social scientific and humanistic approaches.
2. Define and explain the relationship of sustainability to ethics, culture and human behavior; economics, law and policy; production systems and the built environment; ecology and environmental stewardship.

Critical Thinking

3. Critically assess sustainability principles and practices.

Communication

4. Effectively write and/or orally communicate a range of approaches, frameworks, principles and practices of sustainability.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
IDS 2154	I, R	I, R	I, R	I, R
IDS 4942	A	A	A	A
Core Courses				
AMH 2631, ANT 2402, BSC 2862, CLA 2521, GLY 2038, POS 2032, REL 2071	R		R	R

Assessment Types

- Exams
- Writing assignments
- Projects
- Presentations
- Internships

Sustainability Studies Minor

The interdisciplinary sustainability studies minor benefits from the teaching and research of faculty in multiple departments and colleges, and complements any major.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Additional Information**
- **Related Sustainability Studies Programs**

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
IDS 2154	Facets of Sustainability	3
Select five approved electives with at least one from each cluster: [1]		15
Cluster A: Ethics, Culture and Human Behavior		
Cluster B: Economics, Law and Policy		
Cluster C: Production Systems and the Built Environment		
Cluster D: Ecology and Environmental Stewardship		
Total Credits		18

[1] A minimum of three courses of no fewer than three credits each must be at the 3000 level or above.

Students may apply to enroll in IDS 4942, a 3-credit capstone course that has a service learning, internship, or integrative research project component. If accepted into this capstone course students need only complete four cluster courses (12 credits), one from each of the four clusters.

Approved Cluster Courses

Courses for each cluster include those listed as approved cluster courses (p.) for the sustainability studies major, plus the following options:

Code	Title	Credits
Cluster A		
AMH 2631	History of Sustainability	3
ANT 2402	Anthropology of Sustainability	3
CLA 2521	Classical Antiquity and Sustainability (GE-H)	3
REL 2071	Sustainability and Religion (GE-H)	3
Cluster B		
POS 2032	Politics of Sustainability (GE-S)	3
Cluster C		
No additional courses		

Cluster D		
BSC 2862	Global Change Ecology and Sustainability (GE-B)	3

Related Sustainability Studies Programs

- Bachelor of Arts in Sustainability Studies (p. 960)

Teaching English as a Second Language Certificate

The teaching English as a second language (TESL) certificate is for students who want to teach English as a second language to adults, overseas or in the US.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Additional Information**
- **Related TESL Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The certificate is open to students in any undergraduate program.

Students may earn either the TESL certificate or minor but not both.

Required Courses

Code	Title	Credits
LIN 3010	Introduction to Linguistics [1]	3
LIN 3680	Modern English Structure	3
LIN 4721	Second Language Acquisition [1]	3
TSL 3360	Introduction to Teaching English as a Second Language	3
TSL 3378	Pronunciation for Teaching English as a Second Language	3
TSL 4940	Teaching English as a Second Language Internship [2]	3
Total Credits		18

1 Linguistics majors may count LIN 3010 and LIN 4721 toward both the major in linguistics and the TESL certificate.

2 Prerequisite: completion of at least four of the courses above.

Related TESL Programs

- Teaching English as a Second Language minor (p. 969)

Teaching English as a Second Language Minor

The teaching English as a second language (TESL) minor is intended for undergraduates who might want to work in English language programs in the United States or abroad.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 15 | Completed with minimum grades of C
- **Additional Information**
- **Related TESL Programs**

All work must be completed at UF. Only LIN 3010 and LIN 4721 may count toward both a linguistics major and a TESL minor. Students may earn either the TESL certificate or minor but not both.

Required Courses

Code	Title	Credits
LIN 3010	Introduction to Linguistics	3
LIN 3680	Modern English Structure	3

LIN 4721	Second Language Acquisition	3
TSL 3360	Introduction to Teaching English as a Second Language	3
TSL 3378	Pronunciation for Teaching English as a Second Language	3
Total Credits		15

Related TESL Programs

- Teaching English as a Second Language certificate (p. 969)

Theories and Politics of Sexuality Minor

The theories and politics of sexuality minor is useful for anyone who is curious about the place of sexuality and the institutions and practices organized around it (marriage, reproduction, the law, etc.) in life and culture.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Related Women's Studies Programs**

Students pursuing the women's studies major are not eligible to receive the minor in theories and politics of sexuality (TPS).

- No more than three credits of independent study may apply to the minor.
- All courses must be passed with minimum grades of C except internships, which are taken S/U.
- Six transfer credits can apply toward the minor.
- Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Each semester, classes approved for this minor will be listed on the Women's Studies courses (http://wst.ufl.edu/courses/electives-for-womens-studies-major-and-minor) webpage and flagged TPS.

Required Courses

Code	Title	Credits
WST 3603	Sexualities Studies	3
or ENG 4844	Queer Theory	
Women's studies-approved TPS electives (3000 level or above) [1]		15
Total Credits		18

[1] 3 credits of WST 2611 or WST 2612 may be substituted for one 3 credit 3000-level approved elective.

Related Women's Studies Programs

- Bachelor of Arts in Women's Studies (p. 970)
- Women's studies minor (p. 974)
- Health Disparities in Society minor (p. 780)

Women's Studies

The Center for Gender, Sexualities, and Women's Studies Research administers the women's studies program, which offers students the opportunity to investigate how questions of gender and sexuality shape the human experience in the United States and abroad, from the past to the present.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Arts
- **Concentrations:** General Concentration | International Perspectives on Gender | Theories and Politics of Sexuality
- **Credits for Degree:** 120
- **Additional Information**
- **Related Women's Studies Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The B.A. in women's studies offers undergraduates an opportunity to explore the way gender works in the lives of people (men as well as women) from a variety of academic perspectives. The major gives a solid Liberal Arts education but also takes advantage of resources outside the college: students take courses offered through the Center for Gender, Sexualities, and Women's Studies Research as well as approved courses offered in departments across the university.

Students may elect to follow the general concentration in the major, or choose one of the more specialized concentrations: International Perspectives on Gender, or Theories and Politics of Sexuality. Minors are available in women's studies, theories and politics of sexuality, and health disparities in society. All of the courses of study offer a rigorous academic curriculum, along with exciting experiential learning opportunities, including service-learning courses, internships and study abroad; the major culminates in an independent capstone project.

Women's studies majors complete their degrees ready to make competitive applications to graduate and professional school, or to pursue careers in a wide variety of fields, including education, journalism, community activism, arts and entertainment, international relations, and the helping professions. Students should refer to the department website and contact the women's studies undergraduate coordinator for a complete course listing.
More Info (http://wst.ufl.edu)

Coursework for the Major

The major requires 30 credits of coursework in women's studies core and elective courses, at least 27 credits of which must be at the 3000/4000 level. All 30 credits must be completed with minimum grades of C. To ensure a good grasp of the content, theories and methods of women's studies scholarship, students will take courses from a variety of disciplines in addition to those offered under the WST prefix designation.

Students are encouraged to fulfill some of the requirements with appropriate study-abroad courses and may petition the program to count courses outside of WST toward the major if they have significant (greater than 50 percent) gender content. Because the major is so flexible, students should use the approved plan of study (http://wst.ufl.edu/undergraduate-studies/forms) worksheets to plan and track their progress through the degree. Many courses offered in other departments are approved for women's studies credit.

Code	Title	Credits
Required Coursework		
WST 3015	Interdisciplinary Perspectives in Women's Studies	3
WST 3415	Transnational Feminism	3
WST 4935	Capstone Seminar [1]	1-6
Select Approved women's studies and gender-related courses		21
Total Credits		28-33

[1] Prereq.: WST 3015

A minimum of 18 credits for the major must be taken at UF.

Combined Degree Programs

Women's studies is an interdisciplinary field, and at the undergraduate and masters level provides general training in critical thinking, written and oral communication, and specific training in gender analysis. The combined B.A./M.A. degree offers a useful program for well-qualified students who may want careers in social service, law, business, education, policy planning, government and nongovernment organizations and international development. Some MA recipients also choose to pursue the Ph.D. in women's studies (not currently available at UF).

For those students interested in using the MA to develop job qualifications, this accelerated program provides quicker access to advanced training in research and analytic skills. Students who have a Ph.D. as their goal will be able to abbreviate the length of time engaged in coursework. Undergraduates enrolled in graduate courses also will benefit from the more intense level of intellectual engagement involved in graduate training. More information (http://wst.ufl.edu/undergraduate-studies/bama-degree).

Concentrations

General Concentration

Students in the general concentration tailor their coursework for maximum exposure to the various issues covered by women's studies scholarship. In addition to the core requirements, students take nine credits of approved electives focused on humanities, nine credits of approved electives focused on social science, and three credits of a gender and science-focused course or an internship (WST 4940).

International Perspectives on Gender

This concentration emphasizes the experiences of women and men around the globe, with an eye to achieving a cross-cultural perspective on gender, power, sexuality, and the way social and cultural changes impact gender relations. In addition to the core requirements, students must take at least 21 credits from an approved list of IPG electives.

Theories and Politics of Sexuality

This concentration introduces students to new ways of theorizing sex, sexual identities, and the significance of sexualities in social organization. In addition to taking the three core requirements, students take a required three-credit sexualities course, ENG 4844 Queer Theory, or WST 3603 Sexualities Studies. The remaining 18 credits are drawn from an approved list of TPS electives.

Course Details

The core courses in women's studies give coherence to the plan of study that individual students devise.

- WST 3015 Interdisciplinary Perspectives in Women's Studies draws on various materials and methodologies to explore the diverse experiences of women, both in past eras and in the present, focusing on the U.S.
- WST 3415 Transnational Feminism introduces theories of gender and social change engendered by women in diverse national and international contexts. Contemporary economic development, reproductive politics, women's health, and migration are among the examined topics.
- WST 4935 Capstone Seminar is taken in the final year and allows students to reflect on their experience in the major and carry their interests forward through structured independent research tied to their scholarly or career interests.
- Students in the Theories and Politics of Sexualities concentration take an additional core course (WST 3603 or ENG 4844) that introduces them to key issues in contemporary Sexualities Studies.

Related Women's Studies Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Health Disparities in Society minor (p. 780)
- Theories and Politics of Sexuality minor (p. 970)
- Women's Studies minor (p. 974)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=050207&track=01) may be used for transfer students.

Women's studies is a flexible major without a specific gateway course or prerequisites for upper-division courses. In addition to maintaining a 2.0 overall UF GPA and a 2.5 critical-tracking GPA, students should have four women's studies courses (three at the 3000 level) completed by the fifth semester. It is required that one of these 3000-level courses be WST 3015 or WST 3415, and it is highly recommended that students take WST 3015 or WST 3415 in semester 4. Additionally, it is highly recommend that students complete both WST 3015 and WST 3415 by semester 5.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete one women's studies course
- 2.0 UF GPA required

Semester 4

- Complete 1 additional women's studies course at the 3000 level (WST 3015 or WST 3415 recommended) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete 2 additional women's studies courses at the 3000 level, including WST 3015 or WST 3415, with a 2.5 critical-tracking GPA. At least three of the four courses taken must be at the 3000 level or higher.
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically GE-C, H, or S).

Approved Women's Studies and gender-related courses may not count towards the 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Mathematics (p. 23)		3
Foreign language		4-5
	Credits	13-14
Semester Two		
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Biological or Physical Sciences Science Laboratory		1
Foreign language		3-5
Electives		6
	Credits	13-15
Semester Three		
WST-approved course (**Critical Tracking**; 2000 level or above)		3
Elective (or foreign language if 4-3-3 option)		3
Electives		6
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	18
Semester Four		
Select one:		3
WST 3015	Interdisciplinary Perspectives in Women's Studies (**Critical Tracking**; Gen Ed Humanities and Diversity **or** Social and Behavioral Sciences and Diversity)	
WST 3415	Transnational Feminism (**Critical Tracking**; Gen Ed International and Social and Behavioral Sciences)	
Gen Ed Biological or Physical Sciences (area **not** taken in semester two)		3
Elective		3
Gen Ed Mathematics		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
Select one:		3
WST 3015	Interdisciplinary Perspectives in Women's Studies (**Critical Tracking**; Gen Ed Humanities and Diversity or Social and Behavioral Sciences and Diversity)	
WST 3415	Transnational Feminism (**Critical Tracking**; Gen Ed International and Social and Behavioral Sciences)	
WST course (**Critical Tracking**; 3000 level or above)		3
Gen Ed Biological Sciences		3
Elective		3
Gen Ed Humanities		3
	Credits	15
Semester Six		
WST courses (3000 level or above)		6
Gen Ed Composition; Writing Requirement		3
Elective (3000 level or above, not in major)		3
Gen Ed Physical Sciences		3
	Credits	15

Semester Seven		
WST-approved courses (3000 level or above)		6
Electives		4
Electives (3000 level or above, not in major)		6
	Credits	16
Semester Eight		
WST 4935	Capstone Seminar	3
WST-approved course (3000 level or above)		3
Electives (3000 level or above, not in major)		9
	Credits	15
	Total Credits	120

Academic Learning Compact

The Bachelor of Arts in women and gender studies provides knowledge of the core concepts of the interdisciplinary fields of gender and women's studies. It offers insights into gender's role in shaping human experience in U.S. and international contexts. Students will learn the theories behind gender and women's studies and how to interpret texts in light of those theories. They will also learn the field's research methods and they will demonstrate the ability to communicate critical perspectives in the field.

Before Graduating Students Must

- Satisfactorily complete an internship with an outside agency, a service learning course or a research-based project submitted for evaluation to core or affiliated women's studies faculty. Assessment will be based on SLOs 1-3.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify the terminology and concepts central to the interdisciplinary field of gender and women's students.

Critical Thinking

2. Examine and interpret material using the theory and research methods of gender and women's studies and apply these ideas to current social issues.

Communication

3. Present ideas concerning gender and women's studies in spoken and written form.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
WST 3015	I	I	I
WST 3415	R	R	R
WST 4935	R	R	R
WST 4940	R	R	R
Internship, Service Learning, or Research Project	A	A	A

Assessment Types

- Entering and final essays
- Internship, service learning, or research project

Women's Studies Minor

The women's studies minor complements work in humanities, social science or natural science majors, focusing on questions of gender, sex, and power that may be discussed but not explored in depth in traditional disciplines.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 18 | Completed with minimum grades of C
- **Related Women's Studies Programs**

Requirements

- No more than three credits of independent study may apply to the minor.
- All courses must be completed with minimum grades of C except internships, which are taken S-U.
- Six transfer credits can apply toward the minor.
- Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Each semester, classes approved for this minor will be listed on the Women's Studies courses webpage.
More Info (http://wst.ufl.edu/courses/electives-for-womens-studies-major-and-minor)

Required Courses

Code	Title	Credits
WST 3015	Interdisciplinary Perspectives in Women's Studies	3
Women's Studies-approved electives (3000 level or above) [1]		15
Total Credits		18

[1] 3 credits of WST 2611 or WST 2612 may be substituted for one 3 credit 3000-level approved elective.

Related Women's Studies Programs

- Bachelor of Arts in Women's Studies (p. 970)
- Health Disparities in Society minor (p. 780)
- Theories and Politics of Sexuality minor (p. 970)

Zoology

Zoology majors focus on the study of individual organisms and populations, as well as their relationships to each other and the environment, with the core foundation of evolution and ecology. Courses also emphasize the disciplines of anatomy, behavior, genetics, physiology, and other specialized fields.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Zoology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Courses introduce zoology majors to a wide variety of topics while allowing individual interests to be pursued. Advanced undergraduate students are encouraged to participate in research with faculty.

Most career opportunities require advanced studies beyond the bachelor's degree. This includes preparation for graduate studies or employment in disciplines such as zoology, ecology, conservation, and biology research; preparation for medical, dental, or veterinary programs; or preparation for secondary-school teaching.

Ultimately, the undergraduate degree in zoology will be shaped by students' coursework, laboratory experience, field work, and the instructors they encounter. These experiences will help to shape their goals as biologists with a focus on zoology.

Majors should work both with a department advisor and a CLAS advisor. CLAS advisors will assist with degree requirements, university and college policy and course selection. Department advisors will help students select appropriate graduate programs, guide them in the admissions process, and help identify appropriate career choices.
More Info (https://biology.ufl.edu/undergraduates/zoology)

Coursework for the Major

A zoology major consists of a minimum of 32 credits of core zoology coursework plus a minimum of 31 credits of foundation coursework in chemistry, physics, and mathematics/statistics. Courses used toward the major must be completed with minimum grades of C.

Code	Title	Credits
Required Foundation Coursework		
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	
CHM 2210	Organic Chemistry 1	3
CHM 2211	Organic Chemistry 2	5
& 2211L	and Organic Chemistry Laboratory	
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	3-4
or STA 2023	Introduction to Statistics 1	
Select one:		8-10
Option A		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option B		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Required Core Coursework		
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
PCB 3063	Genetics	4
Select at least three courses in zoology: [1]		9-10
Any 3000/4000-level zoology course offered through the Department of Biology		
BSC 3402	Theory and Practice in the Biological Sciences	
BSC 4936	Critical Analysis of Biological Research	
PCB 4043C	General Ecology	
PCB 4674	Evolution	
PCB 5415C	Behavioral Ecology	
PCB 4723C	Physiology and Molecular Biology of Animals	
Additional zoology courses (minimum) [2, 3]		11
Total Credits		63-67

1. Students may not apply ZOO 4232, ZOO 4905 or ZOO 4940 toward this requirement.
2. Including up to two zoology major-approved biological science courses (https://biology.ufl.edu/undergraduates/approvedcourses) (3000/5000 level) outside of zoology.
3. Up to six credits of Individual Studies in Zoology will count toward the 32 credit requirement:
   - BOT 4911
   - BSC 4910
   - BSC 4912
   - ZOO 4905
   - ZOO 4911

Students should begin the chemistry and math sequences as soon as possible. A full year of calculus and a course in statistics (such as STA 2023) are highly recommended.

Transfer students must take at least three courses from the Department of Biology (excluding ZOO 4905, ZOO 4926 and ZOO 4940) at the University of Florida as part of the requirements for the major.

Relevant Minors and/or Certificates

Majors in zoology can minor in most other disciplines, and this is a good way to organize students' electives around areas of interest. For instance, a zoology major can earn a minor in chemistry by adding just two chemistry courses: CHM 3400, CHM 3610, or any 4000-level CHM course. Students could also consider language and humanities minors. Note that zoology majors cannot minor in biology, nor can biology majors minor in zoology (the curricula for the zoology and biology majors are too similar).

Zoology students might want to consider the UFTeach Program. There is a severe shortage of qualified high school science teachers in Florida and nationwide. Students interested in the high-demand teaching profession should see a biology department advisor or the UFTeach advisor. Students who complete the UFTeach minor in science teaching and a B.S. in zoology will have the coursework and preparation for professional teacher certification in Florida when they graduate.
More Info (http://education.ufl.edu/uf-teach)

Research

All zoology majors are strongly encouraged to participate in research. Research experience is valuable on many levels: it diversifies your college experience; it teaches you how scientists apply the knowledge gained in the classroom to real-world questions; it gives you the opportunity to work with and get to know researchers who are the best in their field; it introduces you to cutting-edge scientific questions and techniques; it enhances your resume/CV if you apply to graduate or professional school; and finally, it is essential in helping you determine if science is a good career choice for you.
More Info (http://www.biology.ufl.edu/Undergraduates/Research.aspx)

CLAS zoology majors may participate in research for course credit, as a scholar (e.g., University Scholar, HHMI Science for Life Scholar, Beckman Scholar), as a volunteer, or, in rare cases, as a paid research assistant. Please visit Undergraduate Research for more information regarding course credit. Students who plan to enroll for course credit must contact potential research mentors before the end of drop/add. If they miss the drop/add window, they should still contact potential research mentors, if only to discuss upcoming opportunities.
More Info (https://cur.aa.ufl.edu)

Related Zoology Programs

- Zoology minor (p. 980)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=260701&track=01) may be used for transfer students.

Semester 1

- Complete one of the following in BSC, CHM, or MAC: BSC 2010/BSC 2010L; CHM 1025 or CHM 2045/CHM 2045L; MAC 1114, MAC 1140, MAC 1147, or MAC 2311
- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/CHM 2045L; and BSC 2010/BSC 2010L or MAC 2311
- 2.0 UF GPA required

Semester 3

- Complete BSC 2010/BSC 2010L and MAC 2311 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 4

- Complete CHM 2046/CHM 2046L and BSC 2011/BSC 2011L with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete CHM 2210 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H, or S).

Approved Zoology electives outside of the department may not count towards the 3000 level or above elective outside of the major requirement. CHM 2211, CHM 2211L, PHY 2054, PHY 2054L, PHY 2049, and PHY 2049L may count towards 3000 level or above electives outside of the major.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 1920	First Year Introduction: Biology at UF (recommended elective)	1
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Two		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**)	4
Select one:		3-4
MAC 2312	Analytic Geometry and Calculus 2 (Gen Ed Mathematics)	
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Gen Ed Social and Behavioral Sciences		3
	Credits	13-14
Semester Three		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4
Select one:		3-4
CHM 2210	Organic Chemistry 1 (**Critical Tracking**)	
CHM 3217	Organic Chemistry/Biochemistry 1 (**Critical Tracking**)	
Elective		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16-17
Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences)	4
Select one:		3-4
CHM 2211	Organic Chemistry 2 [1]	
CHM 3218	Organic Chemistry/Biochemistry 2	
CHM 2211L	Organic Chemistry Laboratory	2
Elective		3
Gen Ed Humanities		3
	Credits	15-16
Semester Five		
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1	5

Gen Ed Composition		3
Zoology courses		5-10
	Credits	13-18
Semester Six		
PCB 3063	Genetics	4
PHY 2054	Physics 2	5
& 2054L	and Laboratory for Physics 2	
Electives (3000 level or above, not in major, if needed)		4
Zoology courses (or other approved biological sciences course)		3-5
	Credits	16-18
Semester Seven		
Elective		4
BSC 4936	Critical Analysis of Biological Research (recommended elective)	2
Foreign language		5
Zoology courses		6-7
	Credits	17-18
Semester Eight		
Electives (3000 level or above, not in major, if needed)		4
Foreign language		5
Zoology course		3-5
Zoology course (or other approved biological sciences course)		3-4
	Credits	15-18
	Total Credits	120

[1] Select CHM 2211 if CHM 2210 was taken Semester 3.

Academic Learning Compact

The Bachelor of Science in zoology offers students an education in the life sciences with an emphasis on animal systems. Students gain knowledge about the diversity of life (its evolution and significance) and about the structure of organisms and ecosystems and how they function (i.e., the acquisition, flow, organization and uses of information, energy and nutrients in living systems). They will learn about the scientific method and how it facilitates the discovery of new knowledge in zoology and biology. This includes how to critically evaluate hypotheses and conclusions in science using verifiable data and how to clearly and effectively communicate the major concepts and hypotheses in zoology and biology and in an appropriate style of presentation.

Before Graduating Students Must

- Pass an assessment in the two or three 3000/5000-level zoology courses.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and define the basic terminology, concepts, methodologies and theories used within the biological sciences.

Critical Thinking

2. Analyze biological information and develop reasoned solutions to problems using the processes and applications of scientific inquiry.
3. Discriminate ethical behavior from unethical behavior in scientific research.

Communication

4. Communicate knowledge, ideas and reasoning clearly and effectively in written or oral forms appropriate to the biological sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
BSC 2010	I	I	I	
BSC 2011	I	I	I	
PCB 3063	R	R		I
PCB 3713	R	R		R

PCB 4043C	R/A	R/A	R/A	R/A
PCB 4674	R/A	R/A		R/A
PCB 4723C	R/A	R/A		R/A
ZOO 4205C	R	R		
ZOO 4307C	R	R		

Assessment Types

- Major field test in zoology
- Bioethics module quiz
- Scientific literacy paper

Zoology Minor

The Zoology minor provides a solid foundation in the biology of animals, from the molecular to the organismal level, as well as their relationships to each other and the environment.

About this Program

- **College:** Liberal Arts and Sciences (p. 506)
- **Credits:** 17-18 | Completed with minimum grades C
- **Related Zoology Programs**

A minimum of nine credits must be completed at UF. Individual Studies in Zoology will not count toward the minor.

Code	Title	Credits
BSC 4910	Individual Mentored Research in Biology	3
BSC 4912	Advanced Mentored Research in Biology	4
BOT 4911	Undergraduate Research in Botany	3
ZOO 4905	Individual Studies in Zoology	1-4
ZOO 4911	Undergraduate Research in Zoology	3

Students pursuing majors of biology, entomology, food science and human nutrition, microbiology, natural resource conservation or wildlife ecology are not eligible to receive the minor in zoology.

Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

Required Courses

Code	Title	Credits
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	
PCB or ZOO courses from the Department of Biology [1]		9-10
Total Credits		17-18

[1] Three courses of 3 or more credits each; must include at least one ZOO course.

Related Zoology Programs

- Bachelor of Science in Zoology (p. 975)

Nursing, College of

The College of Nursing is recognized nationally and internationally for innovative education, dynamic programs of research and creative approaches to practice. Gator Nurses are prepared for leadership as clinicians, scientists and educators who reflect and care for a diverse society; foster interdisciplinary collaboration; and improve the health of individuals, families and communities.

Contact

HPNP Complex
1225 Center Drive

Gainesville, FL 32610

Map (http://campusmap.ufl.edu/?loc=0212) More Info (http://www.nursing.ufl.edu)

Academic Advising
G-205 HPNP Complex
352.273.6400

Mailing Address
P.O. Box 100197
Health Science Center, University of Florida
Gainesville, FL 32611-5703

Established

1956

Accredited

Degree programs approved by the Florida State Board of Nursing and accredited by the Commission on Collegiate Nursing Education.

Academic Advising

Students interested in a career in nursing should contact the Office of Student Affairs for advising before they submit an application for admission.

Degrees

Bachelor of Science in Nursing (BSN) with three track options: traditional, accelerated, and RN-BSN. The college also offers a Doctor of Nursing Practice (DNP) and a Doctor of Philosophy (PhD) in nursing science.

Training Opportunities

The colleges of the Health Science Center and their associated healthcare delivery networks provide students access to an integrated system of community hospitals and clinics, statewide home health care, a veterans' health system and quaternary care at UF Health Shands Hospital. The College of Nursing maintains and participates in nursing and interdisciplinary care across the lifespan including women, children, adults, and the elderly with special emphasis on under-served and rural populations.

Helpful Links

- College Website (http://nursing.ufl.edu)
- Computer Requirement (http://www.it.ufl.edu/policies/student-computing-requirements)

Academic Policies

Admission to the College

More Info (https://admissions.nursing.ufl.edu)

Students planning to enter the Traditional BSN program must complete general education and preprofessional requirements by the end of spring semester of the sophomore year. Standards for continuation are established for nursing majors and continuing students are monitored by the college.

Degree audits identify progress toward the degree and are posted on ONE.UF (https://one.uf.edu) after the fall and spring semesters. Critical-tracking criteria are outlined in the curriculum plans.

Students who desire to change their major to nursing should do so by the completion of their first academic year.

The college's online application for admission to upper-division coursework must be made by the March 1 deadline. Students will be admitted after spring grades have been posted.

Admission evaluation factors include, but are not limited to, academic record, cumulative grade point average, performance in preprofessional courses, the extent to which the applicant exceeds minimum requirements, performance on the HESI Academic Assessment Test, relevant student attributes, experiences, and career goals.

Students begin upper-division nursing studies in the fall semester of the junior year.

Limited-Access Program

The University of Florida's baccalaureate nursing curriculum is a high-demand, limited-access program. Enrollment is limited because of the high cost for program delivery as well as limited availability of clinical learning facilities and limited availability of qualified faculty necessary to maintain appropriate faculty-to-student ratios in all clinical areas. Because of limited enrollment and the number of applications, many qualified applicants are unable to be admitted to the College of Nursing's upper-division nursing courses.

Minimum Application Requirements for Native UF Students

- Completed 60 credits of required preprofessional and general education courses by the end of the spring semester prior to admission
- Minimum GPA of 3.0 (on a 4.0 scale) overall and for preprofessional courses
- Minimum grades of C in all required preprofessional courses
- Satisfactory completion of communication and computations requirement (Gordon Rule).
- Completion of the HESI Academic Assessment (A2) Test

Minimum Application Requirements for Transfer Students

More Info (p. 15)

For application information, all transfer students should refer to the admission as a transfer student section of the catalog. Transfer applicants must meet all university and college-specific admission requirements. Applicants from other institutions who have satisfied minimum requirements will be considered for admission at the junior level on a space-available basis.

Students from Florida Public Colleges

- Associate of Arts degree by the end of springs semester prior to admission
- Completed 60 credits of required preprofessional and general education courses by the end of the spring semester prior to admission

- Completed two sequential courses of foreign language in secondary school or 8-10 semester credits at the postsecondary level, or document an equivalent level of proficiency
- Minimum overall 3.0 GPA (4.0 scale) and a 3.0 GPA on all preprofessional courses
- Completion of required prerequisite courses with a grade of C
- Completion of the HESI Academic Assessment (A2) Test

Students from Other Universities

- Completed 60 credits of required preprofessional and general education courses by the end of the spring semester prior to admission
- Completed two sequential courses of foreign language in secondary school or 8-10 semester credits at the postsecondary level, or document an equivalent level of proficiency
- Minimum overall 3.0 GPA (4.0 scale) and a 3.0 GPA on all preprofessional courses
- Minimum grades of C in all required preprofessional courses
- Completion of the HESI Academic Assessment (A2) Test

College Regulations, All Students

Before Enrolling in Nursing Courses

- Compliance with college health policy requirements and immunizations
- Certification in basic cardiopulmonary resuscitation (CPR) for healthcare providers
- Proof of current health insurance coverage
- Criminal Background Check and Drug Screen

Expenditures

Expenditures specific to nursing courses include, but are not limited to, specialized equipment, uniforms, laboratory fees for clinical courses and transportation for off-campus experiences.

Health Policy

The college requires specific immunizations and periodic health screenings. Compliance with health policies is required for clinical coursework. Students are expected to be physically and mentally able to perform the essential functions of the nursing curriculum and may be requested to provide appropriate medical documentation.

Degree Requirements

For graduation from the BSN program:

- **Traditional Track**: Completion of 120 credits, including 60 junior/senior-level credits
- **Accelerated Track**: Completion of 60 credits, post-baccalaureate
- **RN-BSN Track**: Completion of 60 credits, post AA degree or 60 transferable semester credits
- A minimum grade of C in each nursing course.
- Adherence to the standards of acceptable conduct as outlined in the American Nurses Association Code of Ethics, the Florida Nurse Practice Act, the university's Student Guide and the Undergraduate Catalog.

Graduating with Honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

Traditional Track Only

Licensure

Upon satisfactory completion of the baccalaureate curriculum, the graduate will be awarded the Bachelor of Science in Nursing and is academically eligible to apply for the NCLEX-RN examination for state licensure as a registered nurse.

Programs

MAJORS

- Nursing

UF ONLINE MAJORS

- Nursing | RN to BSN UF Online

Accelerated Baccalaureate Degree Program

The College of Nursing offers an accelerated course of study for a baccalaureate degree in nursing. This program is for students with a baccalaureate or higher degree in another field.

The accelerated baccalaureate curriculum begins each summer and is completed in four consecutive semesters of fulltime study.
More Info (https://admissions.nursing.ufl.edu)

Minimum Application Requirements

- A baccalaureate or higher degree from a nationally accredited college or university in a field other than nursing
- 3.0 GPA (on 4.0 scale), calculated on the most recent 60 credits taken toward the bachelor's degree or a cumulative 3.0 GPA toward a masters or doctoral degree
- Required prerequisite course must have been completed within the past seven years with a minimum grade of C. No more than two prerequisite courses can be in progress during the spring semester prior to admission.
- Two professional/academic references attesting to the applicant's potential for accelerated study.
- Resume / curriculum vitae
- A 1-2 page double spaced statement to include rationale for change in career, expectations of the program, and anticipated goals after graduation.

Before Enrolling in Nursing Courses

- Compliance with college health policy requirements and immunizations
- Criminal Background Check and Drug Screen
- Certification in basic cardiopulmonary resuscitation (CPR) for healthcare providers
- Proof of current health insurance coverage
- Criminal Background Check and Drug Screen

Expenditures

Expenditures specific to nursing courses include, but are not limited to, specialized equipment, uniforms, laboratory fees for clinical courses and transportation for off-campus experiences.

Health Policy

The college requires specific immunizations and periodic health screenings. Compliance with health policies is required for clinical coursework. Students are expected to be physically and mentally able to perform the essential functions of the nursing curriculum and may be requested to provide appropriate medical documentation.

Curriculum Plan for Accelerated Baccalaureate Studies

Course	Title	Credits
Semester One		
Summer		
NUR 3066C	Clinical Reasoning: Health Assessment [1]	3
NUR 3106	Lead and Inspire 1: Professional Nursing Practice	2
NUR 3737C	Principles of Personalized Nursing Care 1	6
NUR 3196	Pathophysiology/Pharmacology in Nursing 1	4
(Total Clinical Hours: 180)		
	Credits	15
Semester Two		
Fall		
NUR 3186	Lead and Inspire 2: Research & Evidence-Based Nursing Practice	2
NUR 3128	Pathophysiology/Pharmacology in Nursing 2	3
NUR 3227C	Principles of Personalized Nursing Care 2 [1]	2
NUR 3219C	Clinical Reasoning & Personalized Nursing Care: Adult Acute	4
NUR 3535C	Clinical Reasoning & Personalized Nursing Care: Mental Health	4
(Total Clinical Hours: 180)		
	Credits	15
Semester Three		
Spring		
NUR 4108	Lead and Inspire 3: Policy Change in Nursing Practice	3
NUR 4467C	Clinical Reasoning & Personalized Care: Women, Children & Families	6
NUR 4768C	Clinical Reasoning & Personalized Care: Adult Chronic Conditions [1]	6
(Total Clinical Hours: 180)		
	Credits	15
Semester Four		
Summer		
NUR 4827	Lead & Inspire 4: Leadership & Innovation in Nursing Practice	2
NUR 4636C	Clinical Reasoning & Personalized Nursing Care: Population Health	4
NUR 4766C	Clinical Reasoning & Personalized Nursing Care: Adult Complex Conditions [1]	6
NUR 4815	Professional Nursing Transformation	3
(Total Clinical Hours: 360)		
	Credits	15
	Total Credits	60

Total Clinical Hours=900

[1] Requires External Nursing Skills Test exam score of 800 to pass the course.

Nursing

The junior/senior-level Traditional BSN program is four semesters long and provides learning experiences in a variety of clinical settings. The Accelerated BSN program (https://admissions.nursing.ufl.edu) prepares students with a baccalaureate degree in another field for entrance into the nursing profession with a BSN. The RN to BSN program prepares those current Registered Nurses who have previously earned an associate degree.

About this Program

- **College:** Nursing (p. 980)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Nursing Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The College of Nursing prepares baccalaureate nurses to care, lead and inspire. Nursing courses include classroom and laboratory activities correlated with supervised clinical experiences. Students may be required to travel outside of Gainesville for selected clinical experiences.

The curriculum is logically organized from simple to complex so that students acquire the cognitive, affective, and technical competencies of a professional nurse. Students are required to demonstrate competence at each semester in sequence to progress to more advanced concepts and skills. Knowledge from general education courses, nursing pre-professional courses, and introductory nursing courses is integrated and refined as student progress through increasingly complex theoretical nursing content and clinical application courses.

Courses in the first two semesters focus on foundational knowledge and principles of personalized nursing care. Students gain an understanding of the context of contemporary nursing practice, the meaning of professionalism, ethical and legal guidelines, professional values, and standards of professional nursing practice. Course content and concepts are aligned with clinical experiences to develop beginning clinical reasoning. Students acquire the knowledge, skills, and attitudes to provide evidence-based, safe, cost-effective quality care to achieve optimal health outcomes.

Courses in the final two semesters build upon prior learning and are characterized by increased complexity in content and outcomes. Students enhance clinical reasoning and critical thinking through nursing practice in a variety of settings for individuals across the lifespan, families and other groups, and communities. Learning experiences are designed to enable students to demonstrate leadership, interprofessional collaboration, and

advocacy skills that improve the health of diverse individuals and populations. In the final semester, students participate in a project to develop an innovative solution for a problem or issue relevant to professional nursing.

Progression

Students must earn minimum grades of C in all required nursing courses and maintain a minimum 2.0 GPA every semester while enrolled. Students may repeat only one required nursing course. Students earning less than a C in any required nursing course may repeat that course only once and on a space-available basis. Students who do not achieve a passing grade on their second attempt in a course will be dismissed from the nursing program. Students may withdraw only once from any required nursing course.

Students are expected to comply with college health policy requirements.

Students in the health professions are held to standards of conduct that exceed those usually expected of university students. Consequently, nursing students are required to demonstrate safe practice in the care of patients and to exercise appropriate judgment as beginning-level professionals, including appropriate demeanor and appearance. Students must adhere to the standards of conduct outlined in the American Nurses Association Code of Ethics and the Florida Nurse Practice Act in addition to the University of Florida College of Nursing handbook. Students can be removed from the nursing curriculum, and/or any college-sponsored programs or organizations, based on violation of professional conduct.

Bachelor of Science

The junior/senior-level Traditional BSN program is four semesters long and provides learning experiences in a variety of clinical settings.

Related Nursing Programs

- RN to BSN program, UF Online (p. 987)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=513801&track=01) may be used for transfer students.

The following recommended curriculum plan for semesters 1-4 enables students to satisfy university-wide general education requirements and required preprofessional courses. The plan includes the courses and academic standards (overall GPA and preprofessional GPA) required each semester for continuation in the pre-nursing program and application for admission to the nursing major.

Semester 1

- Complete 2 critical-tracking courses with minimum grades of C: APK 2100C, APK 2105C, DEP 3053 or EDF 3110 (recommended), HUN 2201, MCB 2000/MCB 2000L, STA 2023, 3 credits of social and behavioral science (with PSY, SOP or SYG prefix), and 3 credits of physical or biological sciences (with BSC, CHM or PHY prefix)
- 3.0 GPA required for all critical-tracking courses
- 3.0 overall GPA on work from all institutions

Semester 2

- Complete 2 additional critical-tracking courses with minimum grades of C
- 3.1 GPA required for all critical-tracking courses
- 3.1 overall GPA on work from all institutions

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C
- 3.2 GPA required for all critical-tracking courses
- 3.2 overall GPA on work from all institutions

Semester 4

- Complete all critical-tracking courses with minimum grades of C
- Complete writing requirement
- Complete all general education coursework with minimum grades of C
- Complete a total of 60 credits

- 3.3 GPA required for all critical-tracking courses
- 3.3 overall GPA on work from all institutions

Semesters 5-8

Students cannot register for courses in semesters 5-8 before admission to the nursing major, which is competitive. The online application for admission must be submitted by March 1.

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Mathematics, pure math (p. 23)		3
State Core Gen Ed Biological or Physical Sciences (**Critical Tracking**) [1]		3
Select one (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences):		3
PSY 2012 or SYG 2000	General Psychology or Principles of Sociology	
	Credits	15
Semester Two		
Select one (**Critical Tracking**; Gen Ed Social and Behavioral Sciences):		3
EDF 3110 or DEP 3053	Human Growth and Development or Developmental Psychology	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Composition; Writing Requirement		3
Elective [2]		3
Elective		3
	Credits	15
Semester Three		
APK 2100C	Applied Human Anatomy with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
MCB 2000 & 2000L	Microbiology and Microbiology Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
Elective (Writing Requirement)		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	14
Semester Four		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
HUN 2201	Fundamentals of Human Nutrition (**Critical Tracking**; Gen Ed Biological Sciences)	3
Elective		3
Elective [4]		3
Elective (Writing Requirement)		3
	Credits	16
Semester Five		
NUR 3066C	Clinical Reasoning: Health Assessment [3]	3
NUR 3106	Lead and Inspire 1: Professional Nursing Practice	2
NUR 3737C	Principles of Personalized Nursing Care 1	6
NUR 3196	Pathophysiology/Pharmacology in Nursing 1	4
	Credits	15
Semester Six		
NUR 3128	Pathophysiology/Pharmacology in Nursing 2	3
NUR 3168	Lead and Inspire 2: Research and Evidence-Based Nursing	2
NUR 3219C	Clinical Reasoning and Personalized Nursing Care: Adult Acute Conditions	4
NUR 3227C	Principles of Personalized Nursing Care 2	2
NUR 3535C	Clinical Reasoning and Personalized Nursing Care: Mental Health	4
	Credits	15

Semester Seven		
NUR 4108	Lead and Inspire 3: Policy and Change in Nursing Practice	3
NUR 4467C	Clinical Reasoning and Personalized Nursing Care: Women, Children and Families	6
NUR 4768C	Clinical Reasoning and Personalized Nursing Care: Adult Chronic Conditions [3]	6
	Credits	15
Semester Eight		
NUR 4827	Lead and Inspire 4: Leadership and Innovation in Nursing Practice	2
NUR 4636C	Clinical Reasoning and Personalized Nursing Care: Population Health	4
NUR 4766C	Clinical Reasoning and Personalized Nursing Care: Adult Complex Conditions [3]	6
NUR 4815	Professional Nursing Transformation	3
	Credits	15
	Total Credits	120

[1] BSC, CHM, or PHY prefix.

[2] Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H or S).

[3] Requires External Nursing Skills Test exam score of 800 to pass the course.

Academic Learning Compact

The major in nursing prepares graduates as generalists to provide holistic care that addresses the healthcare needs of diverse individuals, families, communities and populations across the lifespan. Nursing practice is built on nursing knowledge, theory and research. Graduates will translate, integrate and apply knowledge that leads to improvements in patient outcomes.

Before Graduating Students Must

- Achieve a passing grade of C or higher in all required courses.
- Pre-licensure student must achieve a score of 850 on the Health Education Systems Incorporated (HESI) RN Exit Examination.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply critical thinking to synthesize knowledge grounded in liberal education and nursing, in the practice of professional nursing in the global community.
2. Utilize knowledge of health care regulation to advocate for policy change to improve health care systems and professional nursing practice.
3. Utilize health promotion, health maintenance, and disease prevention strategies across settings to improve the health of diverse individuals and populations across the lifespan.

Critical Thinking

4. Integrate evidence-based findings in decision-making in the practice of professional nursing.
5. Appraise current evidence to evaluate health care safety and quality improvement initiatives for individuals and groups.
6. Analyze information from health care technology systems to apply evidence that will guide nursing practice.
7. Illustrate the importance of advocacy in the improvements in nursing practice and throughout the healthcare system.
8. Demonstrate professional competence and values reflective of professional nursing standards and mutual respect within a global society.

Communication

9. Collaborate with the healthcare team and clients to provide safe and cost effective high quality health care.
10. Demonstrate professional communication, collaboration and documentation with healthcare teams to support improvement in patient health outcomes.
11. Build therapeutic alliance with patients and families to provide personalized care.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
NUR 3106	I						I	I			
NUR 3066C						I			I	I	I
NUR 3186				I	I	I					

NUR 3227C	R		I		R			R	R	R	
NUR 4108		I				R	R	R			
NUR 4467C	R		R	R				R	R	R	R
NUR 4768C	R		R	R		R		R	R	R	R
NUR 4636C	R	R	R				R	R	R	R	
NUR 4766C	R, A	R		R	R	R, A		R, A	R, A	R	R, A
NUR 4815	R	R, A	R, A	R, A	R, A	R	R, A	R	R	R, A	R

Assessment Types

- Faculty evaluation
- Achievement of minimum benchmark score on Health Education Systems, Inc. (HESI) Exam
- Exit Survey (Skyfactor)
- Passing score on the National Council Licensure Examination

Nursing | RN to BSN UF Online

The College of Nursing's RN to BSN program enables current RNs who have previously earned an associate degree to earn a baccalaureate degree in nursing. The program is designed for working nurses and can be completed in 5 semesters of primarily online part-time study.

About this Program

- **College:** Nursing (p. 980)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Nursing Programs**

The baccalaureate prepared nurse is equipped to manage complex and changing healthcare environments. Coursework focuses on development of problem solving that will broaden and strengthen the registered nurse student’s preparation for professional nursing practice.

Admission

Students must be accepted into the RN to BSN program, which is competitive. The online application for admission must be submitted by the posted deadline.

Minimum Application Requirements

- Associate of Science degree in nursing from an ACEN (formerly NLNAC) accredited program.
- Active, unencumbered Florida RN license.
- An overall GPA of at least 2.8.
- A minimum grade of C in all required pre-professional courses.
- Resume/curriculum vita.
- Two professional reference from persons familiar with the applicant's recent work.
- A statement of intent, not to exceed two typed double-spaced pages, which discusses the applicant's expectations of the BSN program and the student's career goals.

Related Nursing Programs

- Bachelor of Science in Nursing (p. 983)

Model Semester Plan

Degree Requirements

- Completion of 120 credits, including 60 junior/senior-level credits
- A minimum grade of C in each nursing course
- RN to BSN students will be awarded 30 upper-level credit hours based upon current RN licensure and by satisfying the professional portfolio
- Adherence to the standards of acceptable conduct as outlined in the American Nurses Association Code of Ethics, the Florida Nurse Practice Act, the University's Student Guide and the undergraduate catalog

Course	Title	Credits
Semester One		
NUR 3066C	Clinical Reasoning: Health Assessment	3
NUR 3805	Professional Nursing in the Evolving Healthcare System	3
	Credits	6
Semester Two		
NUR 3123	Pathophysiology and Pharmacology	4
NUR 3826	Legal and Ethical Issues in Nursing	2
	Credits	6
Semester Three		
NUR 3169	Inquiry and Evidence in Professional Nursing Practice	3
NUR 3197	Genetics and Genomics in Health Care	2
NUR 3816	Seminar in Professional Nursing	1
	Credits	6
Semester Four		
NUR 4108	Lead and Inspire 3: Policy and Change in Nursing Practice	3
NUR 4635C	Public Health Nursing	4
	Credits	7
Semester Five		
NUR 4815	Professional Nursing Transformation	3
NUR 4827	Lead and Inspire 4: Leadership and Innovation in Nursing Practice	2
	Credits	5
	Total Credits	30

RN to BSN Credit Totals

Code	Title	Credits
Upper Division Total		
Total from courses		30
Total from portfolio		30
Total		60
Lower Division Total		
Associate Degree		60
Total for Degree		120

Academic Learning Compact

The major in nursing prepares graduates as generalists to provide holistic care that addresses the healthcare needs of diverse individuals, families, communities and populations across the lifespan. Nursing practice is built on nursing knowledge, theory and research. Graduates will translate, integrate and apply knowledge that leads to improvements in patient outcomes.

Before Graduating Students Must

- Achieve a rating of satisfactory in all courses, graded according to College of Nursing rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Integrate knowledge, skills and values derived from a solid base in liberal education to deliver quality care to individuals and groups across the lifespan and across healthcare environments.

Critical Thinking

2. Provide leadership in the delivery of safe, high-quality healthcare to diverse individuals and groups across the lifespan and across healthcare environments.
3. Utilize current evidence to improve healthcare outcomes for clients.
4. Utilize information management and healthcare technology to improve the quality of care.
5. Analyze processes through which healthcare policies are developed and changed to influence professional nursing practice and healthcare systems.

6. Utilize wellness promotion and illness prevention strategies with individuals and groups to improve population health outcomes across the lifespan.
7. Integrate professional values in the delivery of safe, culturally-sensitive care to clients across the lifespan.

Communication

8. Communicate and collaborate as members of interprofessional teams to deliver safe, high-quality healthcare.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
NUR 3138						I		I
NUR 3138C	I					I		
NUR 3638						R		
NUR 3738C	R		I	I		R		R
NUR 3825							I	
NUR 3826							R	
NUR 4739L	R		R			R	R	R
NUR 4748L	R, A	I, A	R, A	R, A	A	R, A	A	R
NUR 4837					I			
NUR 4944L	R, A	R, A	R, A	R, A	R, A	R, A	R, A	R, A

Assessment Types

- Faculty evaluation
- Educational Benchmarking Assessment, Inc. (EBI) exit survey score of 5.0 or above

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Public Health and Health Professions, College of

Established in 1958 as the first college of health professions in the United States, the College of Public Health and Health Professions focuses on the integration of public health problem-solving and individual patient care. To do this, the college fosters collaborations among public health and the health professions in education, research and service.

Contact

Dean's Office
101 South Newell Drive
352.273.6214

Map (http://campusmap.ufl.edu/?loc=0212) More Info (http://www.phhp.ufl.edu)

Academic Advising
G-205 HPNP Complex
352.273.6400, ext. 1

Mailing Address
P.O. Box 100185
Health Science Center, University of Florida
Gainesville, FL 32610-0185

Established

1958 as the first college of health professions in the United States; renamed Public Health and Health Professions in 2003

Location

Health Professions/Nursing/Pharmacy Complex (HPNP)
1225 Center Drive
Gainesville, FL 32610
Map (http://campusmap.ufl.edu/?loc=0212)

Rankings

Highly ranked programs throughout the college.

Accredited

The college is accredited by the Council on Education for Public Health. In addition, all clinical programs are accredited by the appropriate national organization.

Degrees

The college offers a Bachelor of Health Science and a Bachelor of Public Health degree. Public Health offers specialty electives across many disciplines within the university to promote interdisciplinary coursework. Health Science specializations include general health science, pre-occupational therapy, pre-physical therapy, and pre-professional.

Academic Advising

Make an appointment with an academic advisor at 352.273.6400, option 1.
More Info (http://phhp.ufl.edu/academics/undergraduate/advisement)

Libraries

In addition to the university's other libraries, students access the Health Science Center Libraries, one of the largest biomedical library systems in the country.
More Info (http://www.library.health.ufl.edu)

Internships and Career Guidance

College academic advisors and the Career Connections Center are available to help with career planning. Shadowing healthcare providers is also encouraged.
More Info (https://career.ufl.edu)

Helpful Links

- College Website (http://phhp.ufl.edu)
- Combined Degrees (p. 1400)
- Computer Requirement (http://phhp.ufl.edu/academics/resources/computer-requirements)
- Dean's List (p. 1385)
- Student Organizations
  - PHHP College Council (HPCC) (https://bhs.phhp.ufl.edu/current-students/student-organizations)
  - Health Science Student Organization (HSSO) (http://hsso.phhp.ufl.edu)
  - L.E.A.P. Mentorship Program (http://phhp-bahealthscience-mentoring.sites.medinfo.ufl.edu)
  - Most disciplines also have student associations affiliated with their national organizations, including:
    - Student Occupational Therapy Association (https://www.aota.org/Education-Careers/Students/SOTAs.aspx)
    - Student Physical Therapy Assembly (http://www.aptastudent.org)
    - Pre-Physician Assistant Association (https://pap.med.ufl.edu/students-and-graduates/students/pre-physician-assistant-organizations)
    - American Academy of Physician Assistants Student Academy (https://www.aapa.org/student-central/student-member-resources)
    - American Medical Association Pre-Medical Student Chapter (http://www.nationalrehab.org)
    - National Rehabilitation Association (http://www.nationalrehab.org)
    - American Student Dental Association (http://www.asdanet.org)
    - Public Health Student Association (http://phsa.phhp.ufl.edu)
    - National Student Speech, Language and Hearing Association (http://www.nsslha.org)

Academic Policies

Admission

Admission requirements vary for the different pre-professional career options; therefore, applicants should contact an academic advisor in the college to ensure appropriate academic planning.

In addition to specific GPA and coursework requirements, all health science majors require evidence of commitment to the field. Students are encouraged to volunteer in a human services field to demonstrate this commitment. An interview may be required for admission to the college.

Contact the Bachelor of Health Science office directly for additional admission information. The BHS office is located in the HPNP Building, room # 3189. Phone: 352.273.6379

Application Deadlines

The Bachelor of Public Health Deadline is February 1. The Bachelor of Health Science application deadline is February 1 for all tracks - General Health Science, Pre-Occupational Therapy, Pre-Physical Therapy, and Pre-Professional admissions. Communication Sciences deadline is January 15. After the deadline has passed, student applications are considered on a space-available basis.

Student Selection

Admission to the college at the junior level is limited and selective. Satisfaction of minimum GPA and course requirements does not guarantee admission to the junior level. A student's total record, including educational objectives, courses completed, quality of academic record and application essay are considered when evaluating an applicant for admission.

Native UF Student Admission

Freshmen and Sophomores

Students can declare a major in one of the college's undergraduate programs upon admission to the university. Progression standards include courses completed, cumulative and tracking GPAs, and academic conduct. Students apply for junior level limited access admission in their sophomore year.

Juniors Level Admission

A formal application process is required for admission *consideration*. STUDENTS MUST SUBMIT an online program application for the major/specialization of interest and should carefully follow the instructions for the particular specialization.

Students eligible for admission consideration at the junior level must

- Earn at least 60 semester credits of acceptable college credit with a minimum overall 3.0 GPA for health science, pre-occupational therapy and public health, and a minimum 2.7 GPA for communication sciences and disorders on all college/university-level work attempted.
- Complete all critical-tracking coursework with the required GPA. (Critical-tracking courses are listed in the semester plans under Majors in this catalog.)
- Fulfill the general education requirements described in the Academic Advising section of this catalog. Specific course sequences for each program of study indicate how to fulfill these requirements while planning careers in public health and/or discipline-specific health professions.
- Complete all writing requirements.
- Submit a completed program application (http://bhs.phhp.ufl.edu) to the College of Public Health and Health Professions.
- Complete all requirements by the end of spring for Summer B admission consideration or by the end of Summer A for fall admission consideration.

Transfer Student Admission

Meeting minimum standards as freshmen and sophomores does not guarantee admission to the junior year within the college because space is limited.

Application Materials

Non-UF students must apply to the University of Florida and to the College of Public Health and Health Professions for admission consideration at the junior year. These are *separate applications*. Students with questions should speak with a college advisor 352.273.6400, option 1.

Florida public college students must have:

- Received the A.A. degree.
- Completed all critical-tracking coursework with the required GPA (3.0 health science, pre-occupational therapy and public health; 2.7 for communication sciences and disorders).
- Completed 60 semester credits of transferable college-level credit with a minimum overall GPA of 3.0 for health science, pre-OT and public health, and a minimum 2.7 GPA for communication sciences and disorders.
- Submitted a transfer application (http://www.admissions.ufl.edu/start.html) to UF.
- Submitted a program application to the College of Public Health and Health Professions.

PHHP Academic Policies

Double Majors/Dual Degrees

PHHP does not offer a double major; however, students in this college can pursue an additional degree outside of the college. Students from other colleges can also consider a dual degree within PHHP. Permission of both colleges is required. Students are eligible to apply for a dual degree after they have completed 45 credits and before completion of 96 credits. Students must meet all requirements for both degrees.

Minors

The college offers four minors:

- health science
- disability science
- public health
- communication sciences and disorders

These minors are open to students in other colleges who meet the prerequisite and GPA requirements. The minor form and course information are available from the college website. (http://bhs.phhp.ufl.edu)

Specific minors are available to PHHP juniors and seniors based on the student's specialization, as noted below.

Communication Sciences and Disorders Students: health science, disability science and public health minors.

Health Science Students: communication sciences and disorders and public health minors.

Public Health Students: communication sciences and disorders minors.

S/U Option

The S/U option is not permitted for prerequisite or major courses; however, it can be used for electives.

BHS Program Probation / Off-Track Students

Students who do not make sufficient progress toward program completion or students who demonstrate inappropriate professional conduct are considered to be *off track*. Off-track status means the student has not met all tracking criteria for the designated term. Students who are off track can be placed on college probation. The purpose of probation is to develop a plan to help the student return to good academic and/or professional conduct standing. Off-track students can be dismissed from the college based on the college's policy below.

Freshmen and Sophomores

Freshmen and sophomores can be off track for one of two reasons: low GPA or missing or low grades in prerequisite or major courses.

- All students who are off track at the end of any semester are required to meet with an academic advisor in the college to determine the steps needed to get back on track.
- The academic performance of all off track students after two semesters will be reviewed by a college academic advisor. If, in the opinion of the advisor, the student could return to on-track status within one additional semester, the student will be considered for continuation in the college. Otherwise, the student will need to select a different major.
- If a student fails to meet requirements to return to on-track status and/or is off track after three semesters, the student must withdraw from the major. Students who must withdraw from the college will be offered assistance in choosing a different major at the university.
- Students dismissed from the college for academic reasons who believe they have remediated all college pre-application requirements by the deadline for the major have the right to apply for admission. However, dismissal from the college can be considered when making admissions decisions.
- Regardless of the number of semesters the student is off track, if a student meets university guidelines for dismissal, that student can be dismissed consistent with university policy. *Dismissal can be based on academic progression and/or honor code issues.*

Juniors and Seniors

Students must receive minimum grades of C in all courses required for the major. Unsatisfactory grades, defined as grades lower than a C or grades of unsatisfactory in classes graded S/U, are grounds for probation and/or dismissal from the college. In addition, dismissal from the college can result from honor code violations.

If a student in the college receives one grade of C- or lower in a college course, the student is placed on academic probation. Faculty will provide an opportunity for the student to make up material (e.g., through independent study, repeating the course, etc.). If the student receives at least a C in the course for which probation was implemented, the student will return to good academic standing. If the student receives a C- or lower while on probation, the student must withdraw from the program unless the college determines mitigating circumstances warrant a probationary extension. *If a student receives the first and second C- or lower in the same term, the college has the right to dismiss the student without first offering probation.*

If a student receives a C- or lower in a second college course, regardless of whether this occurs in the same term or a different term as the first C-

or lower, the student can be required to withdraw from the program. The student has the right to petition this decision.

In order to petition the faculty committee, the student must provide the program director with a letter stating the reasons that the student should be allowed to remediate their academic performance. Upon successful petition and on a space-available basis, the student will be placed on academic probation and allowed to make up material in an appropriate manner determined by the instructor and program director (e.g., via independent study, course repetition, etc.)

If the student successfully completes the remediation requirements and receives a minimum course grade of C, the student can continue in the program. However, if the student again receives a C- or lower, the student must withdraw from the program. The college will help the student choose another major at UF, if desired, if they withdraw from a college major.

In the first two cases above, the individual instructor is responsible for assigning student grades. The program director, in consultation with the instructor and program faculty as needed, is responsible for determining if a student who appeals a dismissal will be placed on academic probation or dismissed from the program. The student will be notified in writing of the director's decision concerning academic probation or dismissal.

If the student is placed on probation, the letter will include the activities that the student must successfully complete to remedy the academic deficiencies and the timeframe in which these activities must be completed. Failure to adhere to or to meet the terms of the letter constitutes grounds for dismissal from the program. The student will be offered assistance, if desired, to select a different major.

If the student disagrees with the director's decision regarding dismissal or the terms of the probation letter, the student may appeal in writing within one week to the associate dean overseeing academic affairs. The associate dean will review both the director's decision and the student's concerns and make a determination about academic probation/dismissal. Both the student and director have the right to further appeal to the dean, who will review the case in its entirety and make the final decision.

Changing Majors

Freshmen and sophomores wishing to change majors must contact a college advisor in the new major. Juniors and seniors wishing to change majors in the college must contact the program director. If a student withdraws from the major, specific permission from the program and the college must be given at the time of withdrawal for the student to be eligible to re-enter the college.

Health Policy

The college requires evidence of ability to meet the physical and academic requirements of the program. Personnel in the Department of Student Health will test each student for sensitivity to tuberculosis. The Department of Student Health will verify immunization against diphtheria, rubella (German measles) and tetanus.

All students must be immunized against Hepatitis B and varicella (chicken pox) or provide the Student Health Center with medical documentation that they have had chicken pox. All students must participate in annual bloodborne pathogen training, repeat their TB test annually if observing in a clinical setting, and be HIPAA compliant.

Students registered in clinical courses must have hospitalization insurance. Full-time students are eligible for the health insurance plans sponsored by Student Government. Twelve-month coverage may be purchased at the time of registration.

Expenses

Required immunizations and other expenses are the student's responsibility.

Degree Requirements

Students must satisfy all college and university degree requirements for their major and specialization.

College requirements include:

- Completion of 120 semester credits with a 2.0 GPA, including 60 hours of upper division college credit
- Completion of all core courses with minimum grades of C
- Satisfactory completion of all approved college and general electives
- Completion of a PHHP degree candidate exit survey

To graduate in the desired term, students must submit by the deadline a completed degree application to the Office of University Registrar.
More Info (http://www.registrar.ufl.edu/currents/degreeapp.html)

Dean's List

The dean's list recognizes outstanding academic achievement at the completion of each semester. Students receiving a final grade of U or a failing grade may not be considered for the dean's list, regardless of overall grade point average. Students may request a letter confirming dean's list status from the college's dean's office.
More Info (p. 1387)

Graduating with Honors

More Info (p. 1387)

Postbaccalaureate students are not eligible to receive honors recognition. Guidelines for completion of honors program requirements (http://www.bahealthsci.phhp.ufl.edu) to graduate *magna cum laude* or *summa cum laude*.

Programs

MAJORS

- Communication Sciences and Disorders
- Health Science
- Public Health

MINORS

- Communication Sciences and Disorders Minor
- Disability Science Minor
- Health Science Minor
- Public Health Minor

CERTIFICATES

- Speech and Hearing Sciences Certificate

UF ONLINE MAJORS

- Communication Sciences and Disorders UF Online

Students are encouraged to participate in organizations that will help them gain leadership and teamwork experience.

Examples of student organizations, include, but are not limited to:

- Student Occupational Therapy Association
- Health Science Student Organization
- Generational Relief in Prosthetics (GRiP)
- Best Buddies
- Camp Kesem
- Dream Team
- Gator Pals
- Gators for Haven Hospice
- IMPACT Autism
- Multicultural Association of Pre-Health Students
- TOPSoccer
- PHHP College Council

Communication Sciences and Disorders

The communication sciences and disorders major includes didactic and experiential activities for students to learn foundational skills necessary for success in professions such as speech-language pathology, audiology and communication sciences, all of which require graduate degrees.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Degree:** Bachelor of Health Science
- **Credits for Degree:** 120
- **Contact:**
  - Junior/Senior | 2127 HPNP Complex | 352.294.8476
  - Freshman/Sophomore | Email (advising@phhp.ufl.edu) | G-205 HPNP Complex | 352.273.6400, option 1
- **Additional Information**
- **Related Communication Sciences and Disorder Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students should follow the plan below for course choices.

The undergraduate program exposes students to information about

1. normal aspects of speech, language, and hearing as they relate to human communication, and
2. introductory concepts pertaining to the nature, assessment, and treatment of communication disorders.

Students complement the core major courses with various elective courses that align with their academic and career interests.

Upon successful completion of the major, students receive the Bachelor of Health Science degree. The majority of undergraduate students pursue graduate or professional training in a health field (e.g., speech language pathology, audiology or other graduate degree program); however, some students seek employment immediately after completing the BHS degree program, usually in organizations with either a health or education component.

Certified clinicians (graduate degree required) often on a team that may include psychologists, teachers, families, physical and occupational therapists, physicians, nurses, dietitians and social workers to screen, diagnose and treat individuals ranging from infants to the elderly. Professionals typically work in schools, clinics, hospitals, other health organizations and/or private practice. Communication sciences and disorders professions offer a high degree of satisfaction to their practitioners by making a significant impact on people's lives. Both speech-language pathology and audiology are growing professions with competitive salaries.

Course Requirements and Sequence

By the End of Semester Four

Students must have completed all college requirements:

- 60 credits
- All general education except diversity
- 18,000 words of the writing requirement
- These courses (or their equivalents) with minimum grades of C:

    - BSC 2005 or higher
    - Additional biological science (3 credits); APK 2105C is recommended
    - Physical science (3 credits); must be physics or chemistry
    - Science lab (1 credit)
- PSB 3002 or DEP 3053 or CLP 3144; PSB 3002 is recommended strongly
- COM 1000 or SPC 2300 or SPC 2608
- PSY 2012
- STA 2023

By the End of Semester Five

Students must also have completed:

- EEX 3093 with a minimum grade of C (satisfies general education diversity)
- SPA 3003

By the End of the Senior Year

Students must have completed:

- 120 credits, including all prerequisites
- 30 credits of core SPA coursework with minimum grades of C
- ENC 3254 with minimum grade of C; satisfies 6000 words of writing requirement
- PHC 4101 with minimum grade of C
- 12 credits at the 3000/4000 level
- 9 credits of PHHP electives

Majors should see a department advisor to create a plan of study, which becomes the contract for graduation.

Related Communication Sciences and Disorder Programs

- Bachelor of Health Science in Communication Sciences and Disorders, UF Online (p. 998)
- Communication Sciences and Disorder minor (p. 997)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=510204&track=01) may be used for transfer students.

Semester 1

- Complete BSC 2005 or higher or PSY 2012 with minimum grade of C
- Complete 9 credits of general education courses
- 2.0 GPA on all college-level coursework from all institutions

Semester 2

- Complete COM 1000 (or SPC 2300 or SPC 2608) with minimum grade of C
- Complete BSC 2005 or higher or PSY 2012 with minimum grade of C
- Complete 9 additional credits of general education courses for a total of 18 credits
- 2.3 GPA on all college-level coursework from all institutions

Semester 3

- Complete STA 2023 with minimum grade of C
- Complete 1 additional tracking psychology course (PSB 3002, DEP 3053 or CLP 3144) or 3 credits of physical science (CHM 2045 or PHY 2004 recommended) with minimum grade of C
- SPA 3003 recommended this semester if available, with minimum grade of C
- Complete science lab with minimum grade of C or S

- Complete 9 additional credits of general education courses for a total of 27 credits
- 2.7 GPA on all college-level coursework from all institutions

Semester 4

- Complete all critical-tracking courses with minimum grades of C
- Complete all general education courses except diversity
- Complete the 18,000 words of the writing requirement
- 2.7 critical-tracking GPA based on all attempts
- 2.7 GPA on all college-level coursework from all institutions

Semester 5

- Complete EEX 3093 and SPA 3003 with minimum grades of C
- 2.7 prerequisite and overall GPA on college-level coursework from all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1105	Basic College Algebra (or higher level; State Core Gen Ed Mathematics (p. 23))	3
Select one:		3
PSY 2012	General Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
BSC 2005	Biological Sciences (**Critical Tracking**; or higher level biological science; State Core Gen Ed Biological Sciences)	
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
	Credits	15
Semester Two		
Select one:		3
BSC 2005	Biological Sciences (**Critical Tracking**; or higher level biological science; Gen Ed Biological Sciences)	
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	
Select one:		3
COM 1000	Introduction to Communication Studies (**Critical Tracking**)	
SPC 2300	Introduction to Interpersonal Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Humanities with International (p. 23)		3
	Credits	15
Semester Three		
SPA 3003	Phonetic Theory and Transcription (**Critical Tracking**; if available this semester; otherwise select an elective)	3
Select one physical science course:		3
PHY 2020	Introduction to Principles of Physics (**Critical Tracking**; or higher level course; Gen Ed Physical Sciences)	
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; or higher level course; Gen Ed Physical Sciences)	
Select one advanced psychology course:		3
PSB 3002	Physiological Psychology (**Critical Tracking**)	
DEP 3053	Developmental Psychology (**Critical Tracking**)	
CLP 3144	Abnormal Psychology (**Critical Tracking**)	
Science Laboratory (**Critical Tracking**; Gen Ed Biological or Physical Sciences)		1
Gen Ed Social and Behavioral Sciences		3

Elective		3
	Credits	16
Semester Four		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; highly recommended; or other Biological Science course; Gen Ed Biological Sciences)	4
SPA 3003	Phonetic Theory and Transcription (if not taken previously; or elective)	3
Electives		4
Gen Ed Humanities		3
	Credits	14
Semester Five		
EEX 3093	Exceptional People in School and Society (**Critical Tracking**)	3
SPA 3003	Phonetic Theory and Transcription (**Critical Tracking**; if not taken previously)	3
SPA 3011	Speech Acoustics (**Critical Tracking**)	3
SPA 3032	Fundamentals of Hearing (**Critical Tracking**)	3
SPA 3101	Speech Anatomy and Physiology (**Critical Tracking**)	3
	Credits	15
Semester Six		
ENC 3254	Professional Writing in the Discipline (**Critical Tracking**)	3
SPA 4004	Language Development (**Critical Tracking**)	3
SPA 4104	Neural Basis of Communication (**Critical Tracking**)	3
SPA 4302	Audiometry and Hearing Disorders (**Critical Tracking**)	3
Elective (3000 level or above)		3
	Credits	15
Semester Seven		
SPA 4250	Introduction to Speech Disorders (**Critical Tracking**)	3
SPA 4321	Audiologic Rehabilitation (**Critical Tracking**)	3
Elective (college-approved; 3000 level or above)		3
Electives (3000 level or above)		6
	Credits	15
Semester Eight		
PHC 4101	Public Health Concepts	3
SPA 4050	Clinical Observations in Speech-Language Pathology and Audiology (**Critical Tracking**)	3
SPA 4400	Introduction to Language Disorders	3
Electives (college-approved; 3000 level or above)		6
	Credits	15
	Total Credits	120

Academic Learning Compact

The undergraduate program provides an understanding of the expected processes involved in human communication so that students will be prepared for graduate programs where they will be immersed in dealing with atypical or pathological conditions related to speech, language, swallowing and/or hearing.

Before Graduating Students Must

- Pass the undergraduate CSD written examination.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain fundamental theories and principles of basic acoustics, psychoacoustics, (neuro)anatomy and (neuro)physiology as they pertain to the normal development of speech, language and hearing.
2. Explain key concepts that pertain to the etiology and characteristics of speech, language and auditory disorders.
3. Describe basic concepts that pertain to the assessment and treatment of speech, language and auditory disorders.
4. Explain fundamental concepts that pertain to professional practice patterns and ethical standards.
5. Explain fundamental concepts that pertain to the relationship between aging and communication, the effect of culture on communication and modalities of communication.

6. Transcribe normal and disordered speech phonetically.
7. Explain the impact of disease and disability on the health of populations.

Critical Thinking

8. Apply clinical problem-solving skills to defend assessment and treatment choices.

Communication

9. Present information accurately and effectively during an oral presentation on a topic related to communication sciences or disorders.
10. Write a coherent analytical essay on a topic related to communication sciences or disorders.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10
SPA 3003	I				I	I				
SPA 3011	I, R				I, R			I		
SPA 3032	I	I						I	I	I
SPA 3101	I				R			I		
SPA 4004	I				R	A			I	I
SPA 4050		R	R	R, A	R			R, A	R	R
SPA 4104	I	I			R				I	I
SPA 4250	R, A	I, R, A	I, A	I	R, A	R, A	R	R, A	R	R
SPA 4302	R, A	I, R, A	I	I	R			R	R	R
SPA 4321	R	R, A	R, A	R	R, A			R, A	R	R, A
SPA 4400	R, A	I, R, A	I, A	R, A	R, A		I, R, A	I, R, A	R, A	R, A

Assessment Types

- Clinical analysis
- Case management reviews
- Exams
- Papers
- Presentations
- Additional assessments include:
  - A summative assessment
  - The undergraduate alumni survey

Communication Sciences and Disorders Minor

The communication sciences and disorders minor is appropriate for students with majors in computer science, education, engineering, health professions, linguistics, music, psychology, and special education.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Credits:** 15 | Completed with minimum grades of C and no S-U
- **Related Communication Sciences and Disorders Programs**

The minor is open to all students except those majoring in communication sciences and disorders.

Courses that are required for the CSD major do not count toward a minor in CSD if the courses are required by the student's home department.

Students applying for the minor should have a minimum 3.0 GPA and should plan the minor in consultation with the undergraduate coordinator.

Required Courses

Code	Title	Credits
SPA 3032	Fundamentals of Hearing	3
SPA 3101	Speech Anatomy and Physiology	3
SPA 4004	Language Development	3

Approved electives	6
Total Credits	15

Approved Electives

Code	Title	Credits
SPA 3003	Phonetic Theory and Transcription	3
SPA 3011	Speech Acoustics	3
SPA 4104	Neural Basis of Communication	3
SPA 4250	Introduction to Speech Disorders	3
SPA 4302	Audiometry and Hearing Disorders	3
SPA 4400	Introduction to Language Disorders	3

Related Communication Sciences and Disorders Programs

- Bachelor of Health Science in Communication Sciences and Disorders (p. 993)
- Bachelor of Health Science in Communication Sciences and Disorders, UF Online (p. 998)

Communication Sciences and Disorders UF Online

The communication sciences and disorders major includes didactic and experiential activities for students to learn foundational skills necessary for success in professions such as speech-language pathology, audiology and communication sciences, all of which require graduate degrees.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Degree:** Bachelor of Health Science
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Communication Sciences and Disorders Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students should follow the plan below for course choices.

The undergraduate program exposes students to information about:

1. normal aspects of speech, language, and hearing as they relate to human communication, and
2. introductory concepts pertaining to the nature, assessment, and treatment of communication disorders.

Students complement the core major courses with various elective courses that align with their academic and career interests.

Upon successful completion of the major, students receive the Bachelor of Health Science degree. The majority of undergraduate students pursue graduate or professional training in a health field (e.g., speech language pathology, audiology or other graduate degree program); however, some students seek employment immediately after completing the BHS degree program, usually in organizations with either a health or education component.

Certified clinicians (graduate degree required) often on a team that may include psychologists, teachers, families, physical and occupational therapists, physicians, nurses, dietitians and social workers to screen, diagnose and treat individuals ranging from infants to the elderly. Professionals typically work in schools, clinics, hospitals, other health organizations and/or private practice. Communication sciences and disorders professions offer a high degree of satisfaction to their practitioners by making a significant impact on people's lives. Both speech-language pathology and audiology are growing professions with competitive salaries.

Course Requirements and Sequence

By the end of semester four, students must have completed all college requirements:

- 60 credits
- All general education except diversity
- 18,000 words of the writing requirement
- These courses (or their equivalents) with minimum grades of C:

Code	Title	Credits
BSC 2005	Biological Sciences	3
APK 2105C	Applied Human Physiology with Laboratory (recommended or additional biological science)	4
Physical science (must be physics or chemistry)		3
Science lab		1
Select one:		3
PSB 3002	Physiological Psychology (strongly recommended)	
DEP 3053	Developmental Psychology	
CLP 3144	Abnormal Psychology	
Select one:		3
COM 1000	Introduction to Communication Studies	
SPC 2300	Introduction to Interpersonal Communication	
SPC 2608	Introduction to Public Speaking	
PSY 2012	General Psychology	3
STA 2023	Introduction to Statistics 1	3

By the end of semester five, all students must also have completed:

- EEX 3012 with a minimum grade of C
- SPA 3003 with a minimum grade of C

By the end of the senior year, students must have completed:

- 120 credits, including all prerequisites
- 30 credits of core SPA coursework with minimum grades of C
- ENC 3254 with minimum grade of C; satisfies 6000 words of writing requirement
- PHC 4101 with minimum grade of C
- 12 credits at the 3000/4000 level
- 9 credits of PHHP electives

Majors should see a department advisor to create a plan of study, which becomes the contract for graduation.

Related Communication Sciences and Disorder Programs

- Bachelor of Health Science in Communication Sciences and Disorders (p. 993)
- Communication Sciences and Disorder minor (p. 997)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=510204&track=01) may be used for transfer students.

Semester 1

- Complete BSC 2005 or higher or PSY 2012 with minimum grade of C
- Complete 9 credits of general education courses
- 2.0 GPA on all college-level coursework from all institutions

Semester 2

- Complete COM 1000 (or SPC 2300 or SPC 2608) with minimum grade of C
- Complete BSC 2005 or higher or PSY 2012 with minimum grade of C
- Complete 9 additional credits of general education courses for a total of 18 credits
- 2.3 GPA on all college-level coursework from all institutions

Semester 3

- Complete STA 2023 with minimum grade of C
- Complete 1 additional tracking psychology course (PSB 3002, DEP 3053 or CLP 3144) or 3 credits of physical science (CHM 2045 or PHY 2004 recommended) with minimum grade of C
- SPA 3003 recommended this semester if available, with minimum grade of C
- Complete science lab with minimum grade of C or S
- Complete 9 additional credits of general education courses for a total of 27 credits
- 2.7 GPA on all college-level coursework from all institutions

Semester 4

- Complete all critical-tracking courses with minimum grades of C
- Complete all general education courses except diversity
- Complete the 18,000 words of the writing requirement
- 2.7 critical-tracking GPA based on all attempts
- 2.7 GPA on all college-level coursework from all institutions

Semester 5

- Complete EEX 3012 and SPA 3003 with minimum grades of C
- 2.7 prerequisite and overall GPA on college-level coursework from all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1105	Basic College Algebra (State Core Gen Ed Mathematics (p. 23)) [1]	3
Select one:		3
PSY 2012	General Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
BSC 2005	Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological Sciences) [1]	
State Core Gen Ed Composition (Writing Requirement)		3
Elective		3
	Credits	15
Semester Two		
Select one:		3
BSC 2005	Biological Sciences (**Critical Tracking**; Gen Ed Biological Sciences) [1]	
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	
Select one:		3
COM 1000	Introduction to Communication Studies (**Critical Tracking**)	
SPC 2300	Introduction to Interpersonal Communication (**Critical Tracking**)	
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Composition (Writing Requirement)		3
State Core Gen Ed Humanities with International (p. 23)		3
	Credits	15
Semester Three		
SPA 3003	Phonetic Theory and Transcription (**Critical Tracking**; or select an elective if unavailable this semester)	3
Select one physical science course:		3
PHY 2020	Introduction to Principles of Physics (**Critical Tracking**; Gen Ed Physical Sciences) [1]	
CHM 1030	Basic Chemistry Concepts and Applications 1 (**Critical Tracking**; Gen Ed Physical Sciences) [1]	
Select one advanced psychology course:		3
PSB 3002	Physiological Psychology (**Critical Tracking**)	
DEP 3053	Developmental Psychology (**Critical Tracking**)	
CLP 3144	Abnormal Psychology (**Critical Tracking**)	

Science Laboratory (**Critical Tracking**; Gen Ed Biological or Physical Sciences)		1
Gen Ed Social and Behavioral Sciences		3
Elective		3
	Credits	16
Semester Four		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; highly recommended; Gen Ed Biological Sciences)	4
SPA 3003	Phonetic Theory and Transcription (if not taken previously; or elective)	3
Electives		4
Gen Ed Humanities		3
	Credits	14
Semester Five		
EEX 3012	Introduction to Special Education (**Critical Tracking**)	3
SPA 3003	Phonetic Theory and Transcription (**Critical Tracking**; if not taken previously)	3
SPA 3011	Speech Acoustics (**Critical Tracking**)	3
SPA 3032	Fundamentals of Hearing (**Critical Tracking**)	3
SPA 3101	Speech Anatomy and Physiology (**Critical Tracking**)	3
	Credits	15
Semester Six		
ENC 3254	Professional Writing in the Discipline (**Critical Tracking**)	3
SPA 4004	Language Development (**Critical Tracking**)	3
SPA 4104	Neural Basis of Communication (**Critical Tracking**)	3
SPA 4302	Audiometry and Hearing Disorders (**Critical Tracking**)	3
Elective (3000 level or above)		3
	Credits	15
Semester Seven		
SPA 4250	Introduction to Speech Disorders (**Critical Tracking**)	3
SPA 4321	Audiologic Rehabilitation (**Critical Tracking**)	3
Elective (college-approved; 3000 level or above)		3
Electives (3000 level or above)		6
	Credits	15
Semester Eight		
PHC 4101	Public Health Concepts	3
SPA 4050	Clinical Observations in Speech-Language Pathology and Audiology (**Critical Tracking**)	3
SPA 4400	Introduction to Language Disorders	3
Electives (college-approved; 3000 level or above)		6
	Credits	15
	Total Credits	120

[1] Or higher level course.

Academic Learning Compact

The undergraduate program provides an understanding of the expected processes involved in human communication so that students will be prepared for graduate programs where they will be immersed in dealing with atypical or pathological conditions related to speech, language, swallowing and/or hearing.

Before Graduating Students Must

- Pass the undergraduate CSD written examination.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain fundamental theories and principles of basic acoustics, psychoacoustics, (neuro)anatomy and (neuro)physiology as they pertain to the normal development of speech, language and hearing.
2. Explain key concepts that pertain to the etiology and characteristics of speech, language and auditory disorders.
3. Describe basic concepts that pertain to the assessment and treatment of speech, language and auditory disorders.
4. Explain fundamental concepts that pertain to professional practice patterns and ethical standards.

5. Explain fundamental concepts that pertain to the relationship between aging and communication, the effect of culture on communication and modalities of communication.
6. Transcribe normal and disordered speech phonetically.
7. Explain the impact of disease and disability on the health of populations.

Critical Thinking

8. Apply clinical problem-solving skills to defend assessment and treatment choices.

Communication

9. Present information accurately and effectively during an oral presentation on a topic related to communication sciences or disorders.
10. Write a coherent analytical essay on a topic related to communication sciences or disorders.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10
SPA 3003	I				I	I				
SPA 3011	I, R				I, R			I		
SPA 3032	I	I						I	I	I
SPA 3101	I				R			I		
SPA 4004	I				R	A			I	I
SPA 4050		R	R	R, A	R			R, A	R	R
SPA 4104	I	I			R				I	I
SPA 4250	R, A	I, R, A	I, A	I	R, A	R, A	R	R, A	R	R
SPA 4302	R, A	I, R, A	I	I	R			R	R	R
SPA 4321	R	R, A	R, A	R	R, A			R, A	R	R, A
SPA 4400	R, A	I, R, A	I, A	R, A	R, A		I, R, A	I, R, A	R, A	R, A

Assessment Types

- Clinical analysis
- Case management reviews
- Exams
- Papers
- Presentations
- Additional assessments include:
- A summative assessment
- The undergraduate alumni survey

Disability Science Minor

The disability science minor provides a basic scientific foundation to understand the impact of disability on physical and psychosocial health.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Credits:** 17 | Completed with minimum grades of C

This minor is available to all juniors and seniors in PHHP's communication sciences and disorders major and to students in other colleges who meet the prerequisites. The minor is not available to Bachelor of Health Science students in health science, pre-OT or pre-public health specializations.

All credits toward the minor must be completed at the 3000/4000-level. As long as the program director approves, the student can use up to three credits of relevant 3000-level or higher transfer coursework or electives outside the health science program to fulfill elective credits. Lower-division transfer credit is not accepted.

Prerequisites

- Junior standing (60+ credits)
- Overall 2.75 GPA

- 2.75 prerequisite GPA based on general college biology, general psychology, abnormal/developmental/physiological psychology, physiology, and statistics (STA 2023).

Required Courses

Code	Title	Credits
HSC 3502	Survey of Diseases and Disability	3
HSC 4558	Survey of Diseases and Disabilities 2	3
OTH 3416	Pathophysiology	3
Select one option: [1]		8
Option A		
OTH 4412 & 4412L	Musculoskeletal Anatomy and Musculoskeletal Anatomy Laboratory	
OTH 3413C	Applied Kinesiology	
Option B		
OTH 4418 & 4418L	The Nervous System and Disorders and The Nervous System and Disorders Laboratory	
CLP 4420	Introduction to Neuropsychology	
Total Credits		17

[1] Open only to Seniors.

Health Science

The health science program leading to the Bachelor of Health Science (BHS) degree includes didactic and experiential activities for students to learn the foundation skills necessary for success in the dynamic health environment.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Degree:** Bachelor of Health Science
- **Specializations:** General Health Science (p. 1005) | Occupational Therapy Accelerated (p. 1010) | Pre-Physical Therapy (p. 1014) | Preprofessional (p. 1019)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Health Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The program has two major goals: to teach foundational skills to students whose career goal is to work in health care, particularly for those who want to become health care providers, and to teach foundational skills to students who want to work with individuals, groups or communities who face social, economic or health challenges. In addition, interested students have the opportunity to explore a combined-degree program in public health.

The college offers four specializations in the freshman and sophomore years:

General Health Science

For students who want to work in a health care field not mentioned in the other specializations below. The number of electives allowed in this specialization affords the student the opportunity to incorporate a range of prerequisites for different career paths.

Occupational Therapy Accelerated

A combined degree program that allows students to take first-year Doctor of Occupational Therapy (OTD) Program courses during their junior and senior years in the health science program.

Pre-Physical Therapy

Offers a suggested prerequisite course sequence for students interested in pursuing entry-level physical therapy education at the graduate/professional level.

Preprofessional

For students pursuing careers in fields such as medicine, physician assistant and dentistry, all of which require significant basic science prerequisites. This specialization is set up to integrate commonly required preprofessional courses with requirements for the health science major.

The general health science, preprofessional and pre-physical therapy specializations collapse into one track beginning in the junior year and follow the same core curriculum, focusing on the health care system, different diseases and disabilities, the role of the health care provider in prevention and treatment, research methods and understanding core public health concepts. The senior year focuses on patient provider communication, effective leadership and critical-thinking skills important to clinical problem solving and the bioethical and legal issues impacting health care.

Regardless of specialization selected, students complement core courses with electives to round out their academic skills and interests.

Upon successful completion of the health science program, students receive the Bachelor of Health Science degree. While the majority of students pursue graduate or professional training in a health field (e.g. occupational therapy, physical therapy, medicine, physician assistant, health administration, dentistry, public health), some students seek employment in hospital or related community organizations after completing the B.H.S.

Course Sequence

While all specializations are designed for students interested in health care, students should select the specialization that most closely approximates their career plans and overall academic performance. Included in specific tracks are typical prerequisites for UF graduate and professional programs.

All course specializations in the health science program require a minimum 3.0 overall and prerequisite GPA for admission at the junior level.

Each specialization incorporates general education math and writing requirements and health science prerequisites. All specializations accept AP or IB credit for any prerequisite course. Students must earn a minimum of C in any BHS prerequisite course that is not satisfied by AP/IB credit. NOTE: While students can use AP or IB credit to satisfy BHS prerequisites, students should be aware that graduate/professional programs may not accept AP/IB credits in lieu of letter grades for their respective prerequisites. Students should consult a college advisor if they need assistance or have questions about a specific course schedule.

Students must apply by February 1 for Summer B or Fall admission. All prerequisites must be completed by the end of Summer A. However, for admission consideration at the junior level, all students must have completed the following or equivalents before the application deadline:

Code	Title	Credits
BSC 2005	Biological Sciences	3
or BSC 2010	Integrated Principles of Biology 1	
PSY 2012	General Psychology	3
STA 2023	Introduction to Statistics 1	3
CLP 3144	Abnormal Psychology	3
or DEP 3053	Developmental Psychology	

Other remaining prerequisites should be in progress at the time of application or completed by the end of the Summer A term.

Related Health Science Programs

- Bachelor of Public Health (p. 1024)
- Health Science minor (p. 1023)

Academic Learning Compact

The Bachelor of Health Science prepares students for a career in health care systems or organizations that provide health or general human services to individuals/communities with health concerns. Students will learn the foundational interprofessional skills necessary to succeed in the dynamic healthcare environment and/or enter postbaccalaureate academic programs such as medicine, physical therapy and public health.

Before Graduating Students Must

- Receive a satisfactory grade (S) in the BHS capstone portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe key elements of the U.S. healthcare system.
2. Comprehensively describe major chronic illnesses and disabilities.
3. Describe the core functions of public health.
4. Apply knowledge and application of core bioethical principles to contemporary health issues.
5. Develop appropriate professional behaviors for health careers.

Critical Thinking

6. Develop and apply critical analysis skills to contemporary health issues.

Communication

7. Apply effective basic communication skills for health professionals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
HSA 3111	I, R						
HSC 3057						I	
HSC 3502		I, R	I				
HSC 3661							I, R, A
HSC 4184					R		
HSC 4558		I, R	I				
HSC 4608L	R				R	I, R, A	R
HSC 4652L			I, R	R			R
OTH 3416		I, R					
PHC 4101		I, R	I, R			I	
RCS 4415L					I		I
Capstone Exam	A	A	A	A	A	A	A

Assessment Types

- Assignment
- The Bachelor of Health Science (BHS) capstone exam in the final semester
- The degree candidate's exit survey

Health Science | General Health Science

The health science program leading to the Bachelor of Health Science (BHS) degree includes didactic and experiential activities for students to learn the foundation skills necessary for success in the dynamic health environment.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Degree:** Bachelor of Health Science
- **Specializations:** General Health Science (p. 1005) | Occupational Therapy Accelerated (p. 1010) | Pre-Physical Therapy (p. 1014) | Preprofessional (p. 1019)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Health Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The program has two major goals: to teach foundational skills to students whose career goal is to work in health care, particularly for those who want to become health care providers, and to teach foundational skills to students who want to work with individuals, groups or communities who face social, economic or health challenges. In addition, interested students have the opportunity to explore a combined-degree program in public health.

The college offers four specializations in the freshman and sophomore years:

General Health Science

For students who want to work in a health care field not mentioned in the other specializations below. The number of electives allowed in this specialization affords the student the opportunity to incorporate a range of prerequisites for different career paths.

Occupational Therapy Accelerated

A combined degree program that allows students to take first-year Doctor of Occupational Therapy (OTD) Program courses during their junior and senior years in the health science program.

Pre-Physical Therapy

Offers a suggested prerequisite course sequence for students interested in pursuing entry-level physical therapy education at the graduate/professional level.

Preprofessional

For students pursuing careers in fields such as medicine, physician assistant and dentistry, all of which require significant basic science prerequisites. This specialization is set up to integrate commonly required preprofessional courses with requirements for the health science major.

The general health science, preprofessional and pre-physical therapy specializations collapse into one track beginning in the junior year and follow the same core curriculum, focusing on the health care system, different diseases and disabilities, the role of the health care provider in prevention and treatment, research methods and understanding core public health concepts. The senior year focuses on patient provider communication, effective leadership and critical-thinking skills important to clinical problem solving and the bioethical and legal issues impacting health care.

Regardless of specialization selected, students complement core courses with electives to round out their academic skills and interests.

Upon successful completion of the health science program, students receive the Bachelor of Health Science degree. While the majority of students pursue graduate or professional training in a health field (e.g. occupational therapy, physical therapy, medicine, physician assistant, health administration, dentistry, public health), some students seek employment in hospital or related community organizations after completing the B.H.S.

Course Sequence

While all specializations are designed for students interested in health care, students should select the specialization that most closely approximates their career plans and overall academic performance. Included in specific tracks are typical prerequisites for UF graduate and professional programs.

All course specializations in the health science program require a minimum 3.0 overall and prerequisite GPA for admission at the junior level.

Each specialization incorporates general education math and writing requirements and health science prerequisites. All specializations accept AP or IB credit for any prerequisite course. Students must earn a minimum of C in any BHS prerequisite course that is not satisfied by AP/IB credit. NOTE: While students can use AP or IB credit to satisfy BHS prerequisites, students should be aware that graduate/professional programs may not accept AP/IB credits in lieu of letter grades for their respective prerequisites. Students should consult a college advisor if they need assistance or have questions about a specific course schedule.

Students must apply by February 1 for Summer B or Fall admission. All prerequisites must be completed by the end of Summer A. However, for admission consideration at the junior level, all students must have completed the following or equivalents before the application deadline:

Code	Title	Credits
BSC 2005	Biological Sciences	3
or BSC 2010	Integrated Principles of Biology 1	
PSY 2012	General Psychology	3
STA 2023	Introduction to Statistics 1	3
CLP 3144	Abnormal Psychology	3
or DEP 3053	Developmental Psychology	

Other remaining prerequisites should be in progress at the time of application or completed by the end of the Summer A term.

Related Health Science Programs

- Bachelor of Public Health (p. 1024)
- Health Science minor (p. 1023)

General Health Science

The general specialization is designed to accommodate students interested in diverse health care fields (e.g., health administration, nursing, clinical psychology).

To be on-track for the junior year, students must meet the critical-tracking criteria listed below, beginning with the first fall or spring term.

To be *considered* for admission at the junior level, students must:

- Remain on track each fall and spring term, for a total of four semesters.
- Complete the following prerequisites or equivalents by the end of the fourth semester:

Code	Title	Credits
APK 2105C	Applied Human Physiology with Laboratory	4
BSC 2005	Biological Sciences	3
or BSC 2010	Integrated Principles of Biology 1	

PSY 2012	General Psychology	3
STA 2023	Introduction to Statistics 1	3
CLP 3144	Abnormal Psychology	3
or DEP 3053	Developmental Psychology	

- The online application to the BHS program goes live as a link on the BHS website (http://bhs.phhp.ufl.edu) in November. Apply formally to the college by the February 1 deadline. Transfer students must apply separately to UF and to the college so they must submit two different applications.

Off-track UF freshmen and sophomores must speak with a college advisor before registering for the next semester and prior to applying for junior-year admission consideration.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=510000&track=01) may be used for transfer students.

Semester 1

- Complete ENC 1101 or ENC 1102 with a minimum grade of C
- Complete 9 credits of general education courses, including ENC 1101 or higher, with minimum grades of C
- 2.3 cumulative GPA on work from all institutions

Semester 2

- Complete STA 2023 with a minimum grade of C
- Complete PSY 2012 with a minimum grade of C
- Complete 9 additional credits of general education courses for a total of 18, including the university writing requirement
- 2.7 cumulative GPA on work from all institutions

Semester 3

- Complete BSC 2005 or BSC 2010 with minimum grade of C
- Complete CLP 3144 or DEP 3053 with a minimum grade of C
- Complete STA 2023 with minimum grades of C
- Complete 9 additional credits of general education courses for a total of 27
- 3.0 GPA required for all critical-tracking courses, based on all attempts
- 3.0 cumulative GPA on work from all institutions

Semester 4

- Complete all general education courses, including IDS 1161 and all state core courses
- Complete the university writing requirement, which must include ENC 3453 or a substitution approved by a PHHP advisor
- Complete APK 2105C with a minimum grade of C
- Complete 60 cumulative credits
- 3.0 GPA required for all critical-tracking courses and minimum grades of C on all critical-tracking courses, based on all attempts
- 3.0 cumulative GPA on work from all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
ENC 1101	Expository and Argumentative Writing (**Critical Tracking**; State Core Gen Ed Composition; Writing Requirement)	

ENC 1102	Argument and Persuasion (**Critical Tracking**; State Core Gen Ed Composition; Writing Requirement)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological or Physical Sciences (**Critical Tracking**)		3
Gen Ed Mathematics (**Critical Tracking**)		3
Elective		3
	Credits	15
Semester Two		
HSC 2000	Introduction to Health Professions	3
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Gen Ed Composition (**Critical Tracking**; Writing Requirement)		3
State Core Gen Ed Humanities (**Critical Tracking**; with International or Diversity)		3
	Credits	15
Semester Three		
Select one:		3
BSC 2005	Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological Sciences)	
BSC 2010	Integrated Principles of Biology 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences)	
Select one:		3
CLP 3144	Abnormal Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
DEP 3053	Developmental Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Select one:		3
Gen Ed Humanities (**Critical Tracking**; with Diversity or International)		
State Core Gen Ed Social and Behavioral Sciences (**Critical Tracking**)		
Gen Ed Biological or Physical Sciences (**Critical Tracking**)		
Gen Ed Composition (**Critical Tracking**; Writing Requirement)		3
Elective		3
	Credits	15
Semester Four		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
ENC 3453	Writing in the Health Professions (**Critical Tracking**; Writing Requirement)	3
Electives		5
Gen Ed Social and Behavioral Sciences (**Critical Tracking**)		3
	Credits	15
Semester Five		
HSA 3111	U.S. Health Care System [1]	3
HSC 3502	Survey of Diseases and Disability [1]	3
PHC 4101	Public Health Concepts [1]	3
Approved college elective (3000/4000 level) [1]		3
Approved college elective [1]		3
	Credits	15
Semester Six		
HSC 3057	Research Methods and Issues in Health Science [1]	3
HSC 4558	Survey of Diseases and Disabilities 2 [1]	3
OTH 3416	Pathophysiology [1]	3
Approved college elective [1]		3
Elective (3000/4000 level)		3
	Credits	15
Semester Seven		
HSC 3661	Therapeutic Communication Skills with Patients, Families and the Health Care Team [1]	2
HSC 4184	Health Care Leadership: Skills and Styles [1]	3
RCS 4415L	Therapeutic Communication Skills Laboratory [1]	1
Approved college elective [1]		3
Electives (3000/4000 level)		6
	Credits	15
Semester Eight		
HSC 4008	Professional Development for the Health Sciences	1
HSC 4608L	Critical Thinking in Health Care [1]	4
HSC 4652L	Ethical and Legal Issues in the Health Professions [1]	3

Electives (3000/4000 level)		7
	Credits	15
	Total Credits	120

[1] Minimum grade of C required.

For semesters 5-8, students must enroll in all semesters and take all core courses in the term/order indicated.

Academic Learning Compact

The Bachelor of Health Science prepares students for a career in health care systems or organizations that provide health or general human services to individuals/communities with health concerns. Students will learn the foundational interprofessional skills necessary to succeed in the dynamic healthcare environment and/or enter postbaccalaureate academic programs such as medicine, physical therapy and public health.

Before Graduating Students Must

- Receive a satisfactory grade (S) in the BHS capstone portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe key elements of the U.S. healthcare system.
2. Comprehensively describe major chronic illnesses and disabilities.
3. Describe the core functions of public health.
4. Apply knowledge and application of core bioethical principles to contemporary health issues.
5. Develop appropriate professional behaviors for health careers.

Critical Thinking

6. Develop and apply critical analysis skills to contemporary health issues.

Communication

7. Apply effective basic communication skills for health professionals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
HSA 3111	I, R						
HSC 3057						I	
HSC 3502		I, R	I				
HSC 3661							I, R, A
HSC 4184					R		
HSC 4558		I, R	I				
HSC 4608L	R				R	I, R, A	R
HSC 4652L			I, R	R			R
OTH 3416		I, R					
PHC 4101		I, R	I, R			I	
RCS 4415L					I		I
Capstone Exam	A	A	A	A	A	A	A

Assessment Types

- Assignment
- The Bachelor of Health Science (BHS) capstone exam in the final semester
- The degree candidate's exit survey

Health Science | Occupational Therapy Accelerated

The health science program leading to the Bachelor of Health Science (BHS) degree includes didactic and experiential activities for students to learn the foundation skills necessary for success in the dynamic health environment.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Degree:** Bachelor of Health Science
- **Specializations:** General Health Science (p. 1005) | Occupational Therapy Accelerated (p. 1010) | Pre-Physical Therapy (p. 1014) | Preprofessional (p. 1019)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Health Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The program has two major goals: to teach foundational skills to students whose career goal is to work in health care, particularly for those who want to become health care providers, and to teach foundational skills to students who want to work with individuals, groups or communities who face social, economic or health challenges. In addition, interested students have the opportunity to explore a combined-degree program in public health.

The college offers four specializations in the freshman and sophomore years:

General Health Science

For students who want to work in a health care field not mentioned in the other specializations below. The number of electives allowed in this specialization affords the student the opportunity to incorporate a range of prerequisites for different career paths.

Occupational Therapy Accelerated

A combined degree program that allows students to take first-year Doctor of Occupational Therapy (OTD) Program courses during their junior and senior years in the health science program.

Pre-Physical Therapy

Offers a suggested prerequisite course sequence for students interested in pursuing entry-level physical therapy education at the graduate/professional level.

Preprofessional

For students pursuing careers in fields such as medicine, physician assistant and dentistry, all of which require significant basic science prerequisites. This specialization is set up to integrate commonly required preprofessional courses with requirements for the health science major.

The general health science, preprofessional and pre-physical therapy specializations collapse into one track beginning in the junior year and follow the same core curriculum, focusing on the health care system, different diseases and disabilities, the role of the health care provider in prevention and treatment, research methods and understanding core public health concepts. The senior year focuses on patient provider communication, effective leadership and critical-thinking skills important to clinical problem solving and the bioethical and legal issues impacting health care.

Regardless of specialization selected, students complement core courses with electives to round out their academic skills and interests.

Upon successful completion of the health science program, students receive the Bachelor of Health Science degree. While the majority of students pursue graduate or professional training in a health field (e.g. occupational therapy, physical therapy, medicine, physician assistant, health administration, dentistry, public health), some students seek employment in hospital or related community organizations after completing the B.H.S.

Course Sequence

While all specializations are designed for students interested in health care, students should select the specialization that most closely approximates their career plans and overall academic performance. Included in specific tracks are typical prerequisites for UF graduate and professional programs.

All course specializations in the health science program require a minimum 3.0 overall and prerequisite GPA for admission at the junior level.

Each specialization incorporates general education math and writing requirements and health science prerequisites. All specializations accept AP or IB credit for any prerequisite course. Students must earn a minimum of C in any BHS prerequisite course that is not satisfied by AP/IB credit. NOTE: While students can use AP or IB credit to satisfy BHS prerequisites, students should be aware that graduate/professional programs may not accept AP/IB credits in lieu of letter grades for their respective prerequisites. Students should consult a college advisor if they need assistance or have questions about a specific course schedule.

Students must apply by February 1 for Summer B or Fall admission. All prerequisites must be completed by the end of Summer A. However, for admission consideration at the junior level, all students must have completed the following or equivalents before the application deadline:

Code	Title	Credits
BSC 2005	Biological Sciences	3
or BSC 2010	Integrated Principles of Biology 1	
PSY 2012	General Psychology	3
STA 2023	Introduction to Statistics 1	3
CLP 3144	Abnormal Psychology	3
or DEP 3053	Developmental Psychology	

Other remaining prerequisites should be in progress at the time of application or completed by the end of the Summer A term.

Related Health Science Programs

- Bachelor of Public Health (p. 1024)
- Health Science minor (p. 1023)

Occupational Therapy Accelerated

Occupational therapy is a professional program. The Occupational Therapy Accelerated Program gives students the opportunity to learn core health science content while simultaneously completing the first-year professional-level coursework required for the doctor of occupational therapy program at UF.

Competitive applicants to the Occupational Therapy Accelerated Program will have met the following requirements:

- Applicants must be accepted into the Bachelor of Health Science Program.
- Applicants must have completed all 2000-level prerequisites required for the professional program in occupational therapy.
- A minimum cumulative 3.8 GPA for lower division (freshman and sophomore level) undergraduate college coursework.
- A minimum 3.7 GPA for all prerequisite courses with no grade lower than a C.
- All applicants are required to complete a total of 30 hours of observational hours in at least two diverse OT settings. Diverse settings are settings that service clientele are significantly different; inpatient, outpatient, long term care, school-based, elders, pediatrics, orthopedics, rehabilitation, etc.
- Applicants must submit three recommendations. One of the recommendations must be from a professional level OT. The other two should be from professionals, such as a present or former faculty member, academic advisor, or employer.
- Applicants must submit a personal statement that addresses why they selected OT as a career and how an Occupational Therapy degree relates to their immediate and long-term professional goals. They must describe how their personal, educational, and professional background will help achieve their goals.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=510000&track=01) may be used for transfer students.

Semester 1

- Complete BSC 2005 and BSC 2005L with minimum grades of C
- Complete ENC 1101 or ENC 1102 with a minimum grade of C
- Complete sociology or anthropology with a minimum grade of C
- Complete 9 credits of general education courses, including ENC 1101 or higher, with minimum grades of C
- 3.2 cumulative GPA on work from all institutions

Semester 2

- Complete ENC 1102 with a minimum grade of C
- Complete HSC 2000 with a minimum grade of C (recommended)
- Complete PSY 2012 and HSC 3537 with minimum grades of C
- Complete 9 additional credits of general education courses for a total of 18

- Complete 28 cumulative credits
- 3.4 cumulative GPA on work from all institutions

Semester 3

- Complete 3 additional critical-tracking courses: APK 2100C or APK 2105C, CLP 3144 and STA 2023 with minimum grades of C
- Complete 9 additional credits of general education courses for a total of 27
- Complete ENC 3453 or a substitution approved by a PHHP advisor
- Complete 42 cumulative credits
- 3.6 GPA required for all critical-tracking courses, based on all attempts
- 3.6 cumulative GPA on work from all institutions

Semester 4

- Complete all laboratories
- Complete all general education courses, including IDS 1161 and all state core courses
- Complete the university writing requirement
- Complete 60 cumulative credits
- Complete all critical-tracking courses with no grade below C and with a 3.7 critical-tracking GPA
- 3.8 cumulative GPA on work from all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2005 & 2005L	Biological Sciences and Laboratory in Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological Sciences)	4
Select one:		3
ENC 1101	Expository and Argumentative Writing (**Critical Tracking**; State Core Gen Ed Composition; Writing Requirement)	
ENC 1102	Argument and Persuasion (**Critical Tracking**; State Core Gen Ed Composition; Writing Requirement)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Sociology or anthropology course (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)		3
Elective		2
	Credits	15
Semester Two		
ENC 1102	Argument and Persuasion (**Critical Tracking**; Gen Ed Composition; Writing Requirement)	3
HSC 2000	Introduction to Health Professions (recommended)	3
HSC 3537	Health and Medical Terminology (**Critical Tracking**)	3
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
State Core Gen Ed Mathematics (**Critical Tracking**)		3
	Credits	15
Semester Three		
Select one:		4
APK 2100C	Applied Human Anatomy with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	
CLP 3144	Abnormal Psychology (**Critical Tracking**)	3
ENC 3453	Writing in the Health Professions (**Critical Tracking**; Writing Requirement)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
State Core Gen Ed Humanities and Diversity (**Critical Tracking**)		3
	Credits	16
Semester Four		
Select one:		4
APK 2100C	Applied Human Anatomy with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	

APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	
State Core Gen Ed Humanities and International (**Critical Tracking**)		3
Writing Requirement (**Critical Tracking**)		3
Electives		5-6
	Credits	15-16
Semester Five		
HSA 3111	U.S. Health Care System [1]	3
HSC 3502	Survey of Diseases and Disability [1]	3
OTH 6002	Founda Occupa Therapy [2]	3
OTH 6209	Appl Lifespan Hum Dev [2]	3
STA 3024	Introduction to Statistics 2 [1]	3
	Credits	15
Semester Six		
HSC 3057	Research Methods and Issues in Health Science [1]	3
HSC 4558	Survey of Diseases and Disabilities 2 [1]	3
HSC 4652L	Ethical and Legal Issues in the Health Professions [1]	3
OTH 6539	Occupa Therapy Theory [2]	3
PHC 4101	Public Health Concepts [1]	3
	Credits	15
Semester Seven		
HSC 3661	Therapeutic Communication Skills with Patients, Families and the Health Care Team [1]	2
HSC 4184	Health Care Leadership: Skills and Styles [1]	3
RCS 4415L	Therapeutic Communication Skills Laboratory [1]	1
OTH 6008	Neuroscience of Human Occupation [2]	5
OTH 6419	Pathophys Cond in Ot [2]	3
	Credits	14
Semester Eight		
HSC 4608L	Critical Thinking in Health Care [1]	4
OTH 6242	Clinical Kinesiology [2]	3
OTH 6423	Clinical Musculoskeletal Anatomy [2]	5
OTH 6722	Professional Devt Ot [2]	1
Electives (3000/4000 level) [1]		2
	Credits	15
	Total Credits	120

[1] Minimum grade of C required.

[2] Minimum grade of B required.

Students can complete missing coursework in the summer, but all first-year tracking criteria must be completed by the end of the summer term.

For semesters 5-8, students must enroll in all semesters and take all core courses in the term/order indicated, with the exception of Introduction to Statistics, which must be completed by the end of spring term of the junior year.

Academic Learning Compact

The Bachelor of Health Science prepares students for a career in health care systems or organizations that provide health or general human services to individuals/communities with health concerns. Students will learn the foundational interprofessional skills necessary to succeed in the dynamic healthcare environment and/or enter postbaccalaureate academic programs such as medicine, physical therapy and public health.

Before Graduating Students Must

- Receive a satisfactory grade (S) in the BHS capstone portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe key elements of the U.S. healthcare system.
2. Comprehensively describe major chronic illnesses and disabilities.
3. Describe the core functions of public health.

4. Apply knowledge and application of core bioethical principles to contemporary health issues.
5. Develop appropriate professional behaviors for health careers.

Critical Thinking

6. Develop and apply critical analysis skills to contemporary health issues.

Communication

7. Apply effective basic communication skills for health professionals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
HSA 3111	I, R						
HSC 3057						I	
HSC 3502		I, R	I				
HSC 3661							I, R, A
HSC 4184					R		
HSC 4558		I, R	I				
HSC 4608L	R				R	I, R, A	R
HSC 4652L			I, R	R			R
OTH 3416		I, R					
PHC 4101		I, R	I, R			I	
RCS 4415L					I		I
Capstone Exam	A	A	A	A	A	A	A

Assessment Types

- Assignment
- The Bachelor of Health Science (BHS) capstone exam in the final semester
- The degree candidate's exit survey

Health Science | Pre-Physical Therapy

The health science program leading to the Bachelor of Health Science (BHS) degree includes didactic and experiential activities for students to learn the foundation skills necessary for success in the dynamic health environment.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Degree:** Bachelor of Health Science
- **Specializations:** General Health Science (p. 1005) | Occupational Therapy Accelerated (p. 1010) | Pre-Physical Therapy (p. 1014) | Preprofessional (p. 1019)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Health Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The program has two major goals: to teach foundational skills to students whose career goal is to work in health care, particularly for those who want to become health care providers, and to teach foundational skills to students who want to work with individuals, groups or communities who face social, economic or health challenges. In addition, interested students have the opportunity to explore a combined-degree program in public health.

The college offers four specializations in the freshman and sophomore years:

General Health Science

For students who want to work in a health care field not mentioned in the other specializations below. The number of electives allowed in this specialization affords the student the opportunity to incorporate a range of prerequisites for different career paths.

Occupational Therapy Accelerated

A combined degree program that allows students to take first-year Doctor of Occupational Therapy (OTD) Program courses during their junior and senior years in the health science program.

Pre-Physical Therapy

Offers a suggested prerequisite course sequence for students interested in pursuing entry-level physical therapy education at the graduate/professional level.

Preprofessional

For students pursuing careers in fields such as medicine, physician assistant and dentistry, all of which require significant basic science prerequisites. This specialization is set up to integrate commonly required preprofessional courses with requirements for the health science major.

The general health science, preprofessional and pre-physical therapy specializations collapse into one track beginning in the junior year and follow the same core curriculum, focusing on the health care system, different diseases and disabilities, the role of the health care provider in prevention and treatment, research methods and understanding core public health concepts. The senior year focuses on patient provider communication, effective leadership and critical-thinking skills important to clinical problem solving and the bioethical and legal issues impacting health care.

Regardless of specialization selected, students complement core courses with electives to round out their academic skills and interests.

Upon successful completion of the health science program, students receive the Bachelor of Health Science degree. While the majority of students pursue graduate or professional training in a health field (e.g. occupational therapy, physical therapy, medicine, physician assistant, health administration, dentistry, public health), some students seek employment in hospital or related community organizations after completing the B.H.S.

Course Sequence

While all specializations are designed for students interested in health care, students should select the specialization that most closely approximates their career plans and overall academic performance. Included in specific tracks are typical prerequisites for UF graduate and professional programs.

All course specializations in the health science program require a minimum 3.0 overall and prerequisite GPA for admission at the junior level.

Each specialization incorporates general education math and writing requirements and health science prerequisites. All specializations accept AP or IB credit for any prerequisite course. Students must earn a minimum of C in any BHS prerequisite course that is not satisfied by AP/IB credit. NOTE: While students can use AP or IB credit to satisfy BHS prerequisites, students should be aware that graduate/professional programs may not accept AP/IB credits in lieu of letter grades for their respective prerequisites. Students should consult a college advisor if they need assistance or have questions about a specific course schedule.

Students must apply by February 1 for Summer B or Fall admission. All prerequisites must be completed by the end of Summer A. However, for admission consideration at the junior level, all students must have completed the following or equivalents before the application deadline:

Code	Title	Credits
BSC 2005	Biological Sciences	3
or BSC 2010	Integrated Principles of Biology 1	
PSY 2012	General Psychology	3
STA 2023	Introduction to Statistics 1	3
CLP 3144	Abnormal Psychology	3
or DEP 3053	Developmental Psychology	

Other remaining prerequisites should be in progress at the time of application or completed by the end of the Summer A term.

Related Health Science Programs

- Bachelor of Public Health (p. 1024)
- Health Science minor (p. 1023)

Pre-Physical Therapy

Physical therapy is a doctoral-level program. Listed below is the suggested undergraduate prerequisite course sequence. For a description of the program and additional information, please refer to the Department of Physical Therapy.

Course Sequence

The following course sequence permits completion of general education requirements and UF health science and physical therapy prerequisites.

All specializations accept AP or IB credit for any prerequisite course. Students must earn a minimum of C in any BHS prerequisite course that is not satisfied by AP/IB credit. NOTE: While students can use AP or IB credit to satisfy BHS prerequisites, students should be aware that graduate/

professional programs are unlikely to accept AP/IB credits in lieu of letter grades for their respective prerequisites. Students should consult a college advisor if they need assistance or have questions about a specific course schedule.

To be admitted to the pre-PT track, students must meet the health science critical-tracking criteria each semester, beginning with the first fall or spring term. To be *considered* for admission at the junior level, students must remain on track each fall and spring term, for a total of four semesters. Students also must submit an application to the college. Transfer students must apply to UF in addition to applying to the college.

The online application to the BHS program goes live as a link on the BHS website (http://bhs.phhp.ufl.edu) in November. Apply formally to the college by the February 1 deadline. Transfer students must apply separately to UF and to the college so they must submit two different applications.

Off-track UF freshmen and sophomores must speak with a college advisor before registering for the next semester and prior to applying for junior-year admission consideration.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=510000&track=01) may be used for transfer students.

Semester 1

- Complete ENC 1101 or ENC 1102
- Complete MAC 1140 or MAC 1147 with a minimum grade of C
- Complete PSY 2012 with a minimum grade of C
- Complete 9 credits of general education courses, including ENC 1101 or higher, with minimum grades of C
- 2.3 GPA on work from all institutions

Semester 2

- Complete ENC 1102 with a minimum grade of C
- Complete BSC 2010 with a minimum grade of C
- Complete STA 2023 or DEP 3053 with a minimum grade of C
- Complete 9 additional credits of general education courses for a total of 18
- 2.7 GPA on work from all institutions

Semester 3

- Complete APK 2105C, BSC 2010, DEP 3053, STA 2023 with minimum grades of C
- Complete 9 additional credits of general education courses for a total of 27
- 3.0 GPA required for all critical-tracking courses, based on all attempts
- 3.0 cumulative GPA on work from all institutions

Semester 4

- Complete HSC 2000 with a minimum grade of C (recommended)
- Complete all general education courses, including IDS 1161 and all state core courses
- Complete the university writing requirement, which must include ENC 3453 or a substitution approved by a PHHP advisor
- Complete 60 cumulative credits
- Complete all critical-tracking courses with no grades below C and with a 3.0 critical-tracking GPA
- 3.0 cumulative GPA on work from all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 1025	Introduction to Chemistry	2

Select one:		3
ENC 1101	Expository and Argumentative Writing (**Critical Tracking**; State Core Gen Ed Composition; Writing Requirement)	
ENC 1102	Argument and Persuasion (**Critical Tracking**; State Core Gen Ed Composition; Writing Requirement)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Select one:		3-4
MAC 1140	Precalculus Algebra (**Critical Tracking**; State Core Gen Ed Mathematics)	
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics)	
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
	Credits	14-15
Semester Two		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences)	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	4
ENC 1102	Argument and Persuasion (**Critical Tracking**; Gen Ed Composition; Writing Requirement)	3
Select one:		3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	
DEP 3053	Developmental Psychology (**Critical Tracking**)	
State Core Gen Ed Humanities (**Critical Tracking**; Writing Requirement)		3
	Credits	17
Summer After Semester Two		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
	Credits	4
Semester Three		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**)	4
Select one:		3
DEP 3053	Developmental Psychology (**Critical Tracking**)	
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	
ENC 3453	Writing in the Health Professions (**Critical Tracking**; Writing Requirement)	3
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1 (Gen Ed Physical Sciences)	5
	Credits	15
Semester Four		
APK 2100C	Applied Human Anatomy with Laboratory	4
PHY 2054 & 2054L	Physics 2 and Laboratory for Physics 2 (Gen Ed Physical Sciences)	5
Gen Ed Humanities (**Critical Tracking**; and International)		3
Gen Ed Social and Behavioral Sciences (**Critical Tracking**; Writing Requirement)		3
	Credits	15
Semester Five		
HSA 3111	U.S. Health Care System [1]	3
HSC 3502	Survey of Diseases and Disability [1]	3
PHC 4101	Public Health Concepts [1]	3
Electives (3000/4000 level)		7
	Credits	16
Semester Six		
HSC 3057	Research Methods and Issues in Health Science [1]	3
HSC 4558	Survey of Diseases and Disabilities 2 [1]	3
OTH 3416	Pathophysiology [1]	3
Approved college electives [1]		6
	Credits	15
Semester Seven		
HSC 3661	Therapeutic Communication Skills with Patients, Families and the Health Care Team [1]	2
HSC 4184	Health Care Leadership: Skills and Styles [1]	3
RCS 4415L	Therapeutic Communication Skills Laboratory [1]	1
Approved college elective [1]		3

Electives (3000/4000 level)		6
	Credits	15
Semester Eight		
HSC 4608L	Critical Thinking in Health Care [1]	4
HSC 4652L	Ethical and Legal Issues in the Health Professions [1]	3
Electives (3000/4000 level)		6
	Credits	13
	Total Credits	124-125

[1] Minimum grade of C required.

For semesters 5-8, students must enroll in all semesters and take all core courses in the term/order indicated, with the exception of Introduction to Statistics 2, which must be completed by the end of spring term of the junior year.

The health science program requires 120 credits for degree. Students following the pre-PT guidelines will require more than 120 credits and includes all pre-professional coursework.

Academic Learning Compact

The Bachelor of Health Science prepares students for a career in health care systems or organizations that provide health or general human services to individuals/communities with health concerns. Students will learn the foundational interprofessional skills necessary to succeed in the dynamic healthcare environment and/or enter postbaccalaureate academic programs such as medicine, physical therapy and public health.

Before Graduating Students Must

- Receive a satisfactory grade (S) in the BHS capstone portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe key elements of the U.S. healthcare system.
2. Comprehensively describe major chronic illnesses and disabilities.
3. Describe the core functions of public health.
4. Apply knowledge and application of core bioethical principles to contemporary health issues.
5. Develop appropriate professional behaviors for health careers.

Critical Thinking

6. Develop and apply critical analysis skills to contemporary health issues.

Communication

7. Apply effective basic communication skills for health professionals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
HSA 3111	I, R						
HSC 3057						I	
HSC 3502		I, R	I				
HSC 3661							I, R, A
HSC 4184					R		
HSC 4558		I, R	I				
HSC 4608L	R				R	I, R, A	R
HSC 4652L			I, R	R			R
OTH 3416		I, R					
PHC 4101		I, R	I, R			I	

RCS 4415L					I		I
Capstone Exam	A	A	A	A	A	A	A

Assessment Types

- Assignment
- The Bachelor of Health Science (BHS) capstone exam in the final semester
- The degree candidate's exit survey

Health Science | Preprofessional

The health science program leading to the Bachelor of Health Science (BHS) degree includes didactic and experiential activities for students to learn the foundation skills necessary for success in the dynamic health environment.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Degree:** Bachelor of Health Science
- **Specializations:** General Health Science (p. 1005) | Occupational Therapy Accelerated (p. 1010) | Pre-Physical Therapy (p. 1014) | Preprofessional (p. 1019)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Health Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The program has two major goals: to teach foundational skills to students whose career goal is to work in health care, particularly for those who want to become health care providers, and to teach foundational skills to students who want to work with individuals, groups or communities who face social, economic or health challenges. In addition, interested students have the opportunity to explore a combined-degree program in public health.

The college offers four specializations in the freshman and sophomore years:

General Health Science

For students who want to work in a health care field not mentioned in the other specializations below. The number of electives allowed in this specialization affords the student the opportunity to incorporate a range of prerequisites for different career paths.

Occupational Therapy Accelerated

A combined degree program that allows students to take first-year Doctor of Occupational Therapy (OTD) Program courses during their junior and senior years in the health science program.

Pre-Physical Therapy

Offers a suggested prerequisite course sequence for students interested in pursuing entry-level physical therapy education at the graduate/professional level.

Preprofessional

For students pursuing careers in fields such as medicine, physician assistant and dentistry, all of which require significant basic science prerequisites. This specialization is set up to integrate commonly required preprofessional courses with requirements for the health science major.

The general health science, preprofessional and pre-physical therapy specializations collapse into one track beginning in the junior year and follow the same core curriculum, focusing on the health care system, different diseases and disabilities, the role of the health care provider in prevention and treatment, research methods and understanding core public health concepts. The senior year focuses on patient provider communication, effective leadership and critical-thinking skills important to clinical problem solving and the bioethical and legal issues impacting health care.

Regardless of specialization selected, students complement core courses with electives to round out their academic skills and interests.

Upon successful completion of the health science program, students receive the Bachelor of Health Science degree. While the majority of students pursue graduate or professional training in a health field (e.g. occupational therapy, physical therapy, medicine, physician assistant, health administration, dentistry, public health), some students seek employment in hospital or related community organizations after completing the B.H.S.

Course Sequence

While all specializations are designed for students interested in health care, students should select the specialization that most closely approximates their career plans and overall academic performance. Included in specific tracks are typical prerequisites for UF graduate and professional programs.

All course specializations in the health science program require a minimum 3.0 overall and prerequisite GPA for admission at the junior level.

Each specialization incorporates general education math and writing requirements and health science prerequisites. All specializations accept AP or IB credit for any prerequisite course. Students must earn a minimum of C in any BHS prerequisite course that is not satisfied by AP/IB credit. NOTE: While students can use AP or IB credit to satisfy BHS prerequisites, students should be aware that graduate/professional programs may not accept AP/IB credits in lieu of letter grades for their respective prerequisites. Students should consult a college advisor if they need assistance or have questions about a specific course schedule.

Students must apply by February 1 for Summer B or Fall admission. All prerequisites must be completed by the end of Summer A. However, for admission consideration at the junior level, all students must have completed the following or equivalents before the application deadline:

Code	Title	Credits
BSC 2005	Biological Sciences	3
or BSC 2010	Integrated Principles of Biology 1	
PSY 2012	General Psychology	3
STA 2023	Introduction to Statistics 1	3
CLP 3144	Abnormal Psychology	3
or DEP 3053	Developmental Psychology	

Other remaining prerequisites should be in progress at the time of application or completed by the end of the Summer A term.

Related Health Science Programs

- Bachelor of Public Health (p. 1024)
- Health Science minor (p. 1023)

Preprofessional

Students interested in health careers requiring strong basic science backgrounds, such as medicine and physician assistant programs, should enroll in the preprofessional specialization.

Additional science coursework is included within the track to help students meet preprofessional course requirements, **but this coursework is not required for the health science program unless it appears in bold**.

Students should meet with a pre-health advisor in the Academic Advising Center (100 Farrior Hall) and a PHHP advisor to ensure adequate preparation for professional entrance exams and the professional school application process. Students are responsible for ensuring they have the correct prerequisites for the professional program of their choice.

To be on track for the junior year, students must meet the critical-tracking criteria listed below, beginning with the first fall or spring term. All critical-tracking courses appear in bold. To be *considered* for admission at the junior level, students must remain on track each fall and spring term, for a total of four semesters.

The online application to the BHS program goes live as a link on the BHS website (http://bhs.phhp.ufl.edu) in November. Apply formally to the college by the February 1 deadline. Transfer students must apply separately to UF and to the college so they must submit two different applications.

Off-track UF freshmen and sophomores must speak with a college advisor before registering for the next semester and prior to applying for junior-year admission consideration.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=510000&track=01) may be used for transfer students.

Semester 1

- Complete PSY 2012, and ENC 1101 or ENC 1102 with minimum grades of C
- Complete 9 credits of general education courses, including ENC 1101 or ENC 1102, with minimum grades of C
- 2.3 cumulative GPA on work from all institutions

Semester 2

- Complete ENC 1101 or ENC 1102 with a minimum grade of C
- Complete DEP 3053 or CLP 3144 with a minimum grade of C
- Complete STA 2023 with a minimum grade of C
- Complete 9 additional credits of general education courses for a total of 18
- 2.7 cumulative GPA on work from all institutions

Semester 3

- Complete APK 2105C and BSC 2010 with minimum grades of C
- Complete 9 additional credits of general education courses for a total of 27
- 3.0 GPA required for all critical-tracking courses, based on all attempts
- 3.0 cumulative GPA on work from all institutions

Semester 4

- Complete all general education courses, including IDS 1161 and all state core courses
- Complete the university writing requirement, which must include ENC 3453 or a substitution approved by a PHHP advisor
- Complete 60 cumulative credits
- Complete all critical-tracking courses with no grades below C and with a 3.0 critical-tracking GPA
- 3.0 cumulative GPA on work from all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
ENC 1101	Expository and Argumentative Writing (**Critical Tracking**; State Core Gen Ed Composition; Writing Requirement)	
ENC 1102	Argument and Persuasion (**Critical Tracking**; State Core Gen Ed Composition; Writing Requirement)	
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
Gen Ed Social and Behavioral Sciences (**Critical Tracking**; Sociology recommended)		3
	Credits	13
Semester Two		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (State Core Gen Ed Physical Sciences (p. 23))	4
Select one:		3
DEP 3053	Developmental Psychology (**Critical Tracking**)	
CLP 3144	Abnormal Psychology (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
ENC 1102	Argument and Persuasion (**Critical Tracking**; Gen Ed Composition; Writing Requirement)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**)	3
	Credits	16
Summer After Semester Two		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (Gen Ed Physical Sciences)	4
Gen Ed Humanities (**Critical Tracking**)		3
	Credits	7
Semester Three		
APK 2105C	Applied Human Physiology with Laboratory (**Critical Tracking**; Gen Ed Biological Sciences)	4
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; Gen Ed Biological Sciences)	4

ENC 3453	Writing in the Health Professions (**Critical Tracking**; Writing Requirement)	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	14
Semester Four		
APK 2100C	Applied Human Anatomy with Laboratory (may not be required for your career goal)	4
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2 (Gen Ed Biological Sciences)	
CHM 2210	Organic Chemistry 1	3
PHY 2053	Physics 1	5
& 2053L	and Laboratory for Physics 1 (Gen Ed Physical Sciences)	
	Credits	16
Summer After Semester Four		
Select one or both:		5-8
CHM 2211	Organic Chemistry 2	
& 2211L	and Organic Chemistry Laboratory	
Select three electives (3000 level)		
	Credits	5-8
Semester Five		
HSA 3111	U.S. Health Care System [1]	3
HSC 3502	Survey of Diseases and Disability [1]	3
PHC 4101	Public Health Concepts [1]	3
PHY 2054	Physics 2	5
& 2054L	and Laboratory for Physics 2 (Gen Ed Physical Sciences)	
Elective (3000/4000 level)		3
	Credits	17
Semester Six		
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
HSC 3057	Research Methods and Issues in Health Science [1]	3
HSC 4558	Survey of Diseases and Disabilities 2 [1]	3
OTH 3416	Pathophysiology [1]	3
	Credits	13
Semester Seven		
HSC 3661	Therapeutic Communication Skills with Patients, Families and the Health Care Team [1]	2
HSC 4184	Health Care Leadership: Skills and Styles [1]	3
RCS 4415L	Therapeutic Communication Skills Laboratory [1]	1
Approved college electives [1]		6
Elective (3000/4000 level)		3
	Credits	15
Semester Eight		
HSC 4608L	Critical Thinking in Health Care [1]	4
HSC 4652L	Ethical and Legal Issues in the Health Professions [1]	3
Approved college elective [1]		3
Electives (3000/4000 level)		4
	Credits	14
	Total Credits	130-133

[1] Minimum grade of C required.

For semesters 5-8, students must enroll in all semesters and take all core courses in the term/order indicated, with the exception of Introduction to Statistics 2, which must be completed by the end of spring term of the junior year.

The health science program requires 120 credits for degree. Students following the preprofessional guidelines will require more than 120 credits and includes all preprofessional coursework.

Academic Learning Compact

The Bachelor of Health Science prepares students for a career in health care systems or organizations that provide health or general human services to individuals/communities with health concerns. Students will learn the foundational interprofessional skills necessary to succeed in the dynamic healthcare environment and/or enter postbaccalaureate academic programs such as medicine, physical therapy and public health.

Before Graduating Students Must

- Receive a satisfactory grade (S) in the BHS capstone portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe key elements of the U.S. healthcare system.
2. Comprehensively describe major chronic illnesses and disabilities.
3. Describe the core functions of public health.
4. Apply knowledge and application of core bioethical principles to contemporary health issues.
5. Develop appropriate professional behaviors for health careers.

Critical Thinking

6. Develop and apply critical analysis skills to contemporary health issues.

Communication

7. Apply effective basic communication skills for health professionals.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
HSA 3111	I, R						
HSC 3057						I	
HSC 3502		I, R	I				
HSC 3661							I, R, A
HSC 4184					R		
HSC 4558		I, R	I				
HSC 4608L	R				R	I, R, A	R
HSC 4652L			I, R	R			R
OTH 3416		I, R					
PHC 4101		I, R	I, R			I	
RCS 4415L					I		I
Capstone Exam	A	A	A	A	A	A	A

Assessment Types

- Assignment
- The Bachelor of Health Science (BHS) capstone exam in the final semester
- The degree candidate's exit survey

Health Science Minor

The health science minor provides foundational knowledge and skills in the changing healthcare delivery system.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Health Science Programs**

The minor is open to all juniors and seniors with majors outside the College of Public Health and Health Professions who meet the prerequisites. It is also open to communication sciences and disorders students.

Prerequisites include junior standing (60+ credits), a 3.0 overall GPA and a 3.0 prerequisite GPA based on general college biology, general psychology, abnormal/developmental/physiological psychology, physiology and statistics (STA 2023). Students can transfer up to three credits of approved coursework.

Interested students should obtain an application and a list of current coursework.
More Info (https://phhp-bahealthscience-new.sites.medinfo.ufl.edu/files/2015/03/UF-Minor-Form.pdf)

Required Courses

Complete the first three courses before taking electives.

Code	Title	Credits
HSA 3111	U.S. Health Care System (take in the fall)	3
HSC 3502	Survey of Diseases and Disability (take in the fall)	3
OTH 3416	Pathophysiology (take in the spring)	3
Approved electives		6
Total Credits		15

Approved Electives

Code	Title	Credits
CLP 4134	Introduction to Clinical Child/Pediatric Psychology	3
CLP 4314	Introduction to Health Psychology	3
CLP 4420	Introduction to Neuropsychology	3
HSC 4558	Survey of Diseases and Disabilities 2	3
HSC 4600	Psychiatric Disorders	3
OTH 4418	The Nervous System and Disorders	3
OTH 4418L	The Nervous System and Disorders Laboratory	2
PHC 3603	Critical Issues in Ph	3
RCS 4451	Rehabilitation Aspects of Substance Abuse	3

Related Health Science Programs

- Bachelor of Health Science (p. 1003)
- Bachelor of Public Health (p. 1024)

Public Health

The Bachelor of Public Health (BPH) program prepares students for advanced education in public health or related fields. It also provides students with foundational public health skills to succeed in the dynamic public health workforce.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Degree:** Bachelor of Public Health
- **Credits for Degree:** 120
- **Additional Information**
- **Related Health Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

A primary goal of the public health bachelor's degree program is to prepare students for advanced (master's) training in the health professions and in public health specifically, considered the entry level degree for the field. Students interested in a specific area of public health have the opportunity to organize some of their electives around a cohesive public health topic. In addition, interested students have the opportunity to explore a combined-degree program in public health.

Upon successful completion of the public health program, students receive the Bachelor of Public Health degree. While the majority of students pursue graduate or professional training in public health or a related field, some students seek employment in not-for-profit and for-profit agencies, or related community health organizations after completing the B.P.H.

Course Sequence

The public health program is designed primarily for students who want to pursue advanced degree work in public health or a related field. It is also appropriate for those who want to acquire foundational public health knowledge before continuing to graduate or professional school or who will work in a health-care setting after graduation. In order to be on track for pre-public health at the junior level, students must meet the critical-tracking criteria listed below, beginning with their first fall or spring term.

To be *considered* for admission at the junior level, students must:

- Complete these prerequisites:

Code	Title	Credits
BSC 2005	Biological Sciences	3
or BSC 2010	Integrated Principles of Biology 1	
STA 2023	Introduction to Statistics 1	3
Select 6 credits of social and behavioral sciences, including the following as the state core:		6
PSY 2012	General Psychology	
ENC 1101	Expository and Argumentative Writing	3
ENC 1102	Argument and Persuasion	3
ENC 2210	Technical Writing	3
or ENC 3453	Writing in the Health Professions	

- 3.0 overall GPA and 3.0 prerequisite GPA
- AA degree or 60 transferable college level credits
- Completion of all general education and university writing requirements
- Apply formally to the college by February 1. The college application packet (https://bph.phhp.ufl.edu/resources-for-prospective-students/application) is available online. Transfer students must apply separately to UF and to the college so they must submit two different applications.

Off-track UF freshmen and sophomores must speak with a college advisor before registering for the next semester and prior to applying for junior-year admission consideration.

The program accepts AP or IB credit for one prerequisite course. All other prerequisite courses must be completed with minimum grades of C at the university level. Students should consult a college advisor if they need assistance or have questions about a specific course schedule.

Students must apply by February 1 for Summer B and fall admission. All prerequisites must be completed by the end of Summer.

Related Health Science Programs

- Bachelor of Health Science (p. 1003)
- Health Science minor (p. 1023)

Critical Tracking

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=510000&track=01) may be used for transfer students.

Semester 1

- Complete ENC 1101 or ENC 1102 with a minimum grade of C
- Complete 9 credits of general education courses, including ENC 1101 or higher, with minimum grades of C
- 2.3 cumulative GPA on work from all institutions

Semester 2

- Complete STA 2023 with a minimum grade of C
- Complete PSY 2012 with a minimum grade of C
- Complete 9 additional credits of general education courses for a total of 18, and including the university writing requirement
- 2.7 cumulative GPA on work from all institutions

Semester 3

- Complete BSC 2005 or BSC 2010 with minimum grade of C
- Complete Social and Behavioral Sciences (GE-S) with a minimum grade of C
- Complete 9 additional credits of general education courses for a total of 27

- 3.0 GPA required for all critical-tracking courses, based on all attempts
- 3.0 cumulative GPA on work from all institutions

Semester 4

- Complete all general education courses, including IDS 1161 GE-B/P, GE-S, and all state core courses
- Complete the university writing requirement, which must include ENC 3453 or a substitution approved by a PHHP advisor
- Complete Physical or Biological Science (GE-P or B) with a minimum grade of C
- Complete 60 cumulative credits
- 3.0 critical tracking GPA and minimum grades of C on all critical-tracking courses, based on all attempts
- 3.0 cumulative GPA on work from all institutions

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
ENC 1101	Expository and Argumentative Writing (**Critical Tracking**; State Core Gen Ed Composition; Writing Requirement)	
ENC 1102	Argument and Persuasion (**Critical Tracking**; State Core Gen Ed Composition; Writing Requirement)	
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Biological Sciences or Physical Sciences (**Critical Tracking**)		3
Gen Ed Mathematics (**Critical Tracking**)		3
Elective		3
	Credits	15
Semester Two		
ENC 1102	Argument and Persuasion (**Critical Tracking**; Gen Ed Composition; Writing Requirement)	3
HSC 2000	Introduction to Health Professions	3
PSY 2012	General Psychology (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	3
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Gen Ed Humanities with International; Writing Requirement (**Critical Tracking**)		3
	Credits	15
Semester Three		
Select one:		3
BSC 2005	Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological Sciences)	
BSC 2010	Integrated Principles of Biology 1 (**Critical Tracking**; State Core Gen Ed Biological Sciences)	
Gen Ed Social and Behavioral Sciences		3
Elective (Writing Requirement)		3
Electives		6
	Credits	15
Semester Four		
ENC 3453	Writing in the Health Professions (**Critical Tracking**; Writing Requirement)	3
Gen Ed Biological Sciences or Physical Sciences (**Critical Tracking**)		3
Gen Ed Social and Behavioral Sciences and Diversity (**Critical Tracking**)		3
Electives (complete writing requirement)		6
	Credits	15
Semester Five		
HSA 3111	U.S. Health Care System [1]	3
HSC 3502	Survey of Diseases and Disability [1]	3
PHC 3603	Critical Issues in Ph [1]	3
PHC 4094	Introduction to Biostatistics for Health Science and Public Health [1]	3
PHC 4101	Public Health Concepts [1]	3
	Credits	15
Semester Six		
HSC 3057	Research Methods and Issues in Health Science [1]	3

HSC 4558	Survey of Diseases and Disabilities 2 [1]	3
PHC 3440	Global Public Health [1]	3
Approved college elective [1]		3
Specialty elective (3000/4000 level)		3
	Credits	15
Semester Seven		
PHC 4024	Applied Epidemiology [1]	3
PHC 4320	Environmental Concepts in Public Health [1]	3
Approved college elective [1]		3
Specialty elective (3000/4000 level)		3
Elective (3000/4000 level)		3
	Credits	15
Semester Eight		
PHC 4117	Public Health Management Leadership [1]	3
PHC 4943	Service Learning Practicum [1]	3
Specialty elective (3000/4000 level)		3
Electives (3000/4000 level)		6
	Credits	15
	Total Credits	120

[1] Minimum grade of C required.

For semesters 5-8, students must enroll in all semesters and take all core courses in the term and order indicated.

Academic Learning Compact

Students graduating with a Bachelor of Public Health will be prepared for careers in health care systems or organizations addressing the health or more general human service needs of communities and populations. They will learn the foundational skills necessary to enter post baccalaureate academic programs in public health or complementary fields and success in the dynamic public health workforce.

Before Graduating Students Must

- Earn minimum grades of C in all public health core courses.
- Pass a BPH capstone exam and service learning experience.
- Complete requirements for the post baccalaureate degree, as determined by the faculty and the university.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Explain the five major areas of public health (biostatistics, environmental health services, epidemiology, health services administration, and social behavioral science), and each area's contribution to public health.
2. Identify, describe, and explain the ways that social determinants of health impact disability, disease and illness in populations.

Critical Thinking

3. Identify, critically evaluate, and propose solutions to public health challenges.

Communication

4. Communicate in oral and written forms public health concepts and their relationship to policy, communities, organizations, interpersonal dynamics and individual perspectives.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
HSA 3111	I, R			
HSC 3057			I, R	I, R
HSC 3502		I, R		
HSC 4558		I, R		
PHC 3440	I, R	I, R	I, R	
PHC 3603	I	I, R	I, R	I, R

PHC 4024	I, R		R	
PHC 4094	I		R	
PHC 4101	I	I, R	I, R	R
PHC 4117	I	I, R	I, R	R
PHC 4320	I	I, R	R	
PHC 4943 Capstone Experience		I, R	I, R	R, A
Capstone Exam	A	A	A	A

Assessment Types

- Assignment
- The Bachelor of Health Science capstone exam
- The degree candidate's exit survey

Public Health Minor

This minor enables preprofessional students to acquire public health knowledge that complements their career paths. The minor is designed for students going into careers other than public health who can benefit from public health knowledge in the delivery of their services. A few examples of these careers include anthropology, dentistry, environmental engineering, health education, medicine, nursing, nutritional sciences, occupational therapy, physician assistant and psychology.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Public Health Programs**

Students interested in public health careers should consider a combined-degree program rather than this minor.

For students in the College of Public Health and Health Professions, successful completion of this minor satisfies the 9-credit college elective requirement and six credits of general elective credit. Therefore, no additional credits beyond 120 are required for graduation with a minor in public health.

Students must have completed the prerequisites for the BPH program with minimum grades of C to be considered for a minor. Prerequisites include:

- Junior status (60+ credits)
- 3.0 overall GPA
- 3.0 prerequisite GPA
- Completion of the following:

Code	Title	Credits
BSC 2005	Biological Sciences	3
or BSC 2010	Integrated Principles of Biology 1	
PSY 2012	General Psychology	3
STA 2023	Introduction to Statistics 1	3
Select one:		3
CLP 3144	Abnormal Psychology	
DEP 3053	Developmental Psychology	
Health Psychology		

Students may transfer up to three credits of approved coursework toward the minor. All remaining credits must be taken from the course list below.

Interested students should submit the required UF application to add or cancel a minor. Students also must submit a proposed *plan of study that includes courses for the minor*.
More Info (http://bhs.phhp.ufl.edu/forms-2)

Application materials should be submitted to the Bachelor of Public Health office in the College of Public Health and Health Professions, HPNP 4150. Minors are considered on a space-available basis. Students within the Bachelors of Health Science program are only able to apply one of their core curriculum courses towards the public health minor.

The communication sciences and disorders program and health science program also offers minors.

More Info (http://slhs.phhp.ufl.edu/academics/undergrad)

Required Courses

Code	Title	Credits
PHC 4101	Public Health Concepts	3
Select four:		12
HSA 3111	U.S. Health Care System	
PHC 3440	Global Public Health	
PHC 3603	Critical Issues in Ph	
PHC 4024	Applied Epidemiology	
PHC 4094	Introduction to Biostatistics for Health Science and Public Health	
PHC 4320	Environmental Concepts in Public Health	
RCS 4451	Rehabilitation Aspects of Substance Abuse	
Total Credits		15

Counting Credits for Undergraduate or Graduate Degrees

Undergraduates who are interested in public health as a career path, but do not want to pursue the Bachelors of Public Health, should consider the Bachelors/MPH Combined Degree. This would allow courses taken in a student's senior year to count toward an MPH degree.
More Info (http://mph.ufl.edu)

Related Public Health Programs

- Bachelor of Science in Health-Science (p. 1003)

Speech and Hearing Sciences Certificate

The speech and hearing sciences certificate provides a specialized credential in audiology or speech language pathology which could be used to apply for graduate work in audiology or speech language pathology; also helps meet the academic requirements for licensure as an audiology assistant or a speech-language pathology assistant. It provides an understanding of the fundamentals of speech and hearing as well as an introduction to speech, language and hearing disorders.

About this Program

- **College:** Public Health and Health Professions (p. 989)
- **Credits:** 24

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Two paths to program admission

Postbaccalaureate Students

- A bachelor's degree with a 2.7 GPA or better
- A phonetics course is required but may be taken concurrently while in the certificate program

Current Undergraduate Students outside the Department of Speech Language and Hearing Science

- In good standing at UF
- A 2.7 GPA or better
- A course in phonetics

Required Courses

Code	Title	Credits
SPA 3011	Speech Acoustics	3
SPA 3032	Fundamentals of Hearing	3
SPA 3101	Speech Anatomy and Physiology	3
SPA 4004	Language Development	3
SPA 4104	Neural Basis of Communication	3
Approved electives		9
Total Credits		24

Approved Electives

Code	Title	Credits
SPA 4250	Introduction to Speech Disorders	3
SPA 4302	Audiometry and Hearing Disorders	3
SPA 4321	Audiologic Rehabilitation	3
SPA 4400	Introduction to Language Disorders	3

Arts, College of the

Established in 1925, the College of the Arts offers fully accredited schools of Art and Art History, Music, and Theatre and Dance, as well as the Center for Arts in Medicine and the Digital Worlds Institute.

Contact

101 Fine Arts Building A
1389 Stadium Road
P.O. Box 115800
University of Florida
Gainesville, FL 32611-1930

352.392.0207

Map (http://campusmap.ufl.edu/?loc=0597) More Info (http://www.arts.ufl.edu)

Established

1925 through the School of Architecture. Became its own college in 1975.

Accredited

National Association of Schools of Art and Design (NASAD), National Association of Schools of Music (NASM), National Association of Schools of Theatre (NAST), and National Association of Schools of Dance (NASD)

Programs

Baccalaureate, masters, and doctoral degree programs

Degrees

Bachelor of Arts, Bachelor of Arts in Art Education, Bachelor of Arts in Digital Arts and Sciences, Bachelor of Arts in History of Art, Bachelor of Fine Arts, Bachelor of Fine Arts in Graphic Design, Bachelor of Music, and Bachelor of Music in Music Education

Divisions

- School of Art and Art History (http://www.arts.ufl.edu/art)
- School of Music (http://www.arts.ufl.edu/music)
- School of Theatre and Dance (http://www.arts.ufl.edu/theatreanddance)
- Center for Arts in Medicine (http://arts.ufl.edu/academics/center-for-arts-in-medicine)
- Digital Worlds Institute (http://digitalworlds.ufl.edu)
- New World School of the Arts (http://www.mdc.edu/nwsa)
- C (http://www.arts.ufl.edu/galleries)enter for Arts and Public Policy (https://arts.ufl.edu/about/creative-research/center-for-arts-and-public-policy)
- Center for World Arts (http://www.arts.ufl.edu/cwa)

Related Partnerships

- Arts Living/Learning Community (http://www.housing.ufl.edu/hall/reid)
- Harn Museum of Art (http://www.harn.ufl.edu)
- University of Florida Performing Arts (http://www.performingarts.ufl.edu)

Visual Resources Center

More than 200,000 slides, photographs and study prints are available for college and university faculty and students to use for presentations or lectures.

Libraries

In addition to the main university library, there is also a library for Architecture and Fine Arts.

Helpful Links

- College Website (http://arts.ufl.edu)
- Academic Advising (http://arts.ufl.edu/directory/advisors)
- Admission Requirements
  - *For specific degree programs, students should consult an academic advisor in that program.*
- Computer Requirement (http://www.it.ufl.edu/policies/student-computing-requirements)
- Dean's List (p. 1385)
- Scholarships (http://www.sfa.ufl.edu/search/category/college_of_fine_arts/?submit=view)
- Student Clubs (http://arts.ufl.edu/students-parents/student-clubs)

Academic Policies

Admission Requirements

Students planning to major in any program in the arts should contact the College of the Arts as soon as possible. Because of limitations in faculty and space, the college cannot accept all eligible applicants; admission, therefore, is selective.
More Info (http://arts.ufl.edu/about/programs)

Auditions are required for admission to all music programs and to the B.F.A. programs in theatre and dance. Refer to the appropriate school for audition information. A student's entire record, including educational objective, pattern of courses completed, quality of academic record, successful audition or portfolio review and test data will be considered.

Native Freshmen and Sophomores

Because the College of the Arts offers professional degrees (B.F.A. and B.Mus.) and a limited access B.A. program in digital arts and sciences, the admissions process often occurs in two phases.

1. Conditional admission as a freshman to the college and a program of choice in the School of Theatre and Dance (B.A only), the School of Art and Art History or the UF Digital Worlds Institute. There is no conditional admission for music students; they must audition for direct admission to music programs before registering for classes.
2. Direct or confirmed admission into a specific program of choice occurs in different stages of the academic career for different programs.

Art

Students desiring to change from another major within the university must submit a portfolio for conditional admission. All art students must pass a portfolio review at the end of their sophomore year before direct admission to a specific program.

Digital Arts and Sciences

Students must submit a portfolio of original student work, demonstrating competency in digital art and computer programming, by March 15 of the sophomore year for approval to begin upper division coursework the following Fall.

Music

All students must audition for admission to a music major.

Theatre and Dance

Students must audition for direct admission to B.F.A. programs.

Students, even those in the conditional phase of their program, maintain the College of the Arts (FA) classification as long as they meet the standards set by the college and UF for admission and universal tracking.

Transfer Students

To be eligible for admission to the college, a transfer student must satisfy the minimum requirements for UF admission.

The primary criterion for any art, dance, digital arts and sciences, music or theatre program is proficiency in the discipline. All students, except for B.A. in theatre or dance, must present an audition, portfolio or other required support material for review.

The majority of 3000/4000-level professional courses required for the major in the junior and senior years generally cannot be taken at other schools. Students attending four-year colleges should take courses similar to the first two years' preparatory courses for their intended major.

The associate of arts (A.A.) degree is recommended for students transferring from a Florida public college; the degree should be posted on the student's transcript before admission.

Transfer students are advised to plan their studies as outlined below for each department or school. Transfer students, even with completed A.A. degrees, will usually be required to take additional preprofessional, lower-division (2000 level) courses beyond the minimum courses, required for entry into a specific program.

Art

Students are admitted to studio degree programs following completion of a satisfactory portfolio review. Applicants should note that the UF Office of Admissions deadline for the fall or summer B term is March 1; the submission deadline for the art portfolio is March 15. The UF Office of Admissions deadline for the spring term is September 15 and the submission deadline for the art portfolio is October 1.

Please see the website for up-to-date prerequisite information and application instructions.
More Info (https://arts.ufl.edu/about/programs/#art-and-art-history)

All majors within the School of Art and Art History require a portfolio review, except art history, which does require a letter of intent outlining the applicant's goals as related to that major. Refer to the School of Art and Art History website for further clarification.

Dance

Students are admitted to the B.F.A program following completion of the following:

- A satisfactory in-person or videotaped audition
- A résumé
- Acceptable proficiency in dance technique

The state college program should include:

- Two years of dance technique, including ballet, modern and jazz
- One year of dance composition
- Dance appreciation

Digital Arts and Sciences

Students are admitted to the program following completion of the following:

- Satisfactory submission of the portfolio of original student work, demonstrating competency in digital art and computer programming.
- Completion of the following prerequisite courses with a minimum 2.5 GPA:

Code	Title	Credits
ARH 2000	Art Appreciation: American Diversity and Global Arts	3
ARH 2050	Introduction to the Principles and History of Art 1	3
ARH 2051	Introduction to the Principles and History of Art 2	3
MAC 1140	Precalculus Algebra (or higher)	3

At least one course in Studio Art or Computer Programming.

The state college program should include work required to earn the A.A. degree and the type of general education and recommended electives found in the degree description. Applicants should note that the UF Office of Admissions deadline for fall is March 1 and the submission deadline for the portfolio is March 15. Refer to the Digital Worlds Institute website for instructions on submitting the portfolio.
More Info (https://digitalworlds.ufl.edu)

Music

Upper-division ***professional*** students have an AA or at least 60 hours at the time of matriculation, and ***have*** completed the coursework required for admission at the professional level (listed below). Transfer students who do not meet the criteria for admission at the professional level may

be admitted as *provisional*. If a student does not have an AA degree or at least 60 credit hours, they should refer to the lower division information above. All transfer students with an Associate of Arts degree or with 60 hours of accumulated credit must be accepted into a specific college when they apply to the University of Florida.

Upper-division ***provisional*** students have an AA or at least 60 hours at the time of matriculation, but ***have not*** completed the coursework required for admission at the professional level (listed below). This includes students who have transferred from community colleges that do not offer music programs, students who have not successfully completed the theory requirements, etc. Community college students, with or without an AA degree, who ***have not*** completed the required pre-professional course work will audition at the "pre-professional level". All students auditioning at the "pre-professional level" will take a theory exam for placement within the theory program and must then successfully pass the final Comprehensive Musicianship Exam upon completion of the theory coursework assigned for remediation.

Requirements for admission at the Professional level:

Courses

- Four semesters of applied studio (8 hours)
- Four semesters of ensemble (4 hours)
- Four semesters of recital attendance
- Four semesters of theory (12 hours)
- Four semesters of secondary piano (4 hours)

Competency Requirements

- 3000 level Pre-professional Jury
- Comprehensive Musicianship Examination (CME)

Grade Point Average Minimums

- 2.5 for Music Education
- 2.0 for all other degree tracks

Theatre

Students are admitted to the program following completion of a satisfactory audition in performance or a portfolio review in production.

The state college program should include:

- One course in acting
- Introduction to theatre
- Costume and stage make-up
- Stagecraft

Timely Graduation

The College of the Arts expects full-time enrollment for students enrolled in bachelor's level degree programs. COTA majors are expected to graduate within the following timeframes: eight full-time fall/spring semesters for students admitted as freshmen, and four fall/spring semesters for students admitted as junior transfers. Full-term withdrawals, full-term semesters of overseas study, or full-term semesters of internship away from UF are not included in this count, although students should be mindful of potential excess hours implications of extending their time at UF.

Students who cannot meet their degree requirements within the eight full-time semesters (four for transfer students) are expected to enroll in summer terms to complete their degree requirements.

Due to the sequencing of course requirements, some A.A. and upper division transfer students may be unable to complete their degree requirements in the four allotted semesters. Students should see their respective advisor to determine an appropriate academic plan to complete their degrees.

REQUEST FOR ADDITIONAL SEMESTERS GUIDELINES

COTA recognizes that unexpected life events, individual circumstances, or complex educational goals may necessitate additional time to complete degree requirements. Additional time to degree is permitted with the approval of the College Petitions Committee, and may be limited to fulfillment of unmet degree requirements only.

COTA generally approves graduation extensions for the following reasons:

- Series of approved medical drops, medical withdrawals, or approved reduced course load lower than 12 credits for full-time status via the DRC
- Personal/financial hardship necessitating the student cease enrollment or enroll at less than full time for one or more semesters More Info (p. 19)

COTA does not approve graduation extensions for students on academic probation nor for students seeking to finish requirements for minors or certificates, or prerequisites for graduate study.

DUAL DEGREES/DOUBLE MAJORS/ COMBINED DEGREES

We recognize and commend the many COTA students with ambitious educational goals involving the pursuit of dual-degree/double major/combined degree plans. COTA expects these students to utilize robust fall/spring course loads (i.e., more than 12 credits in fall/spring terms) and summer term enrollment to complete all degree requirements as expeditiously as possible.

- Students who plan to pursue a dual-degree/double major should work with their advisor/s to create a reasonable semester plan that achieves degree completion as soon as possible. COTA generally permits a maximum of one additional year (two full-time semesters with some additional summer course work) for students pursuing dual-degree/double majors.
- COTA approves additional semesters for dual degrees with majors that already require more than eight full-time semesters for degree completion (e.g., mechanical engineering).

CHANGE OF Major

COTA recognizes that the major selected when a student starts at UF is not always the right major. Students wishing to change majors into a COTA major should work with the respective advisor to determine the feasibility of timely graduation in the new major.

- COTA expects these students to utilize robust fall/spring course loads (i.e., more than 12 credits in fall/spring terms) and summer term enrollment to catch up and complete all degree requirements as expeditiously as possible.
- COTA generally permits a maximum of one additional year (two full-time semesters with some additional summer course work) for

students who have changed majors into a COTA major and are unable to complete degree requirements in the standard eight-semester timeframe.

- Due to state of Florida excess hours legislation, it is critical to consult with your COTA advisor to explore the options available so as to graduate as soon as possible but also incur the least amount of excess hours. Many students find pursuing the BA degree options enable timely graduation with a more reasonable number of credits.

PROCEDURES

1. Meet with your undergraduate advisor for guidance regarding your academic goals and graduation timeline

2. If graduation timeline exceeds the allotted four-year timeframe, submit a Graduation Extension Petition.

3. Your undergraduate advisor will review the petition in consultation with the COTA Petitions Committee and notify you of the status (approved, denied, or additional information requested).

Students should discuss their excess hours standing with their advisor as they are making their plan. In addition, students should discuss their financial aid/scholarship situation with Student Financial Affairs in 107 Criser Hall or Veterans Services in 222 Criser Hall.

College Requirements

Student Responsibility

Students are responsible for staying on track, for registering for the proper courses and for fulfilling all requirements for their degrees.

While the college maintains an academic advisory service and carefully works to keep accurate records of individual students in the college, the student is responsible for meeting all degree requirements. Students should read their online-tracking audits each term and visit an advisor to review progress toward the degree.

Students may be required to take additional courses to remove skill deficiencies when deemed necessary by proficiency exams.

Course Load

The college expects all students to be enrolled as full-time students (a minimum of 12 credits per semester). The college strongly encourages students to take 15 credits per semester to successfully meet degree requirements as soon as possible. A student who wishes to carry more than 18 credits must get approval at the time of registration from a college academic advisor.

Satisfactory Academic Progress

Students maintain satisfactory academic progress by earning a minimum 2.0 (C) GPA for all work attempted while classified in the college (2.5, C+ average in music education and a 3.0 (B) average for all School of Art and Art History majors).

Students must take courses as outlined in the semester plan for each major. Students should see an advisor for more information. Students are required to take courses in sequence. Students may be excluded from a program of study in the college if they fail or refuse to maintain normal academic progress.

College Probation and Dismissal

Students should see an advisor in their department for information about department level probation. Students should review the University of Florida's probation and dismissal policies.
More Info (https://catalog.ufl.edu/ugrad/current/regulations/info/progress.aspx#probation)

Adding/Dropping/Withdrawing

Refer to the policy for dropping courses.
More Info (p. 1430)

Petitions

Any student who feels that college regulations created a particular hardship or injustice may petition for a waiver of the regulation. Information on procedures is available in the advisor's office. Anyone who believes that they have been discriminated against should contact the advisor or associate dean for student affairs.

Helpful Links

- Dean's List (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#deanslisttext)

Degree Requirements

To be eligible for graduation, the student must earn a minimum 2.0 (C) GPA for all work attempted in the appropriate curriculum while classified in the college (2.5 for music education, art and art education). Specific grade requirements for various curricula are available from the school or dean's office.

Graduating with Honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

Residence Requirement

The last 30 semester credits applied toward a degree must be completed in residence in the college. This requirement may be waived only in special cases and must be approved in advance.

Student Work

The college reserves the right to retain student work for the purpose of record, exhibition or instruction.

Programs

MAJORS

- Art History
- Art | BA
- Art | BFA
- Dance | Bachelor of Arts
- Dance | Bachelor of Fine Arts
- Digital Arts and Sciences | Bachelor of Arts
- Digital Arts and Sciences | Bachelor of Arts
- Graphic Design
- Music Education
- Music | Bachelor of Arts
- Music | Bachelor of Music
- Theatre
- Theatre Performance

- Theatre Production
- Theatre | General
- Theatre | Stage Management

MINORS

- Art History Minor
- Art History Minor | New World School of the Arts
- Art Minor
- Dance Minor
- Digital Arts and Sciences Minor
- Fine Arts | Interdisciplinary Studies Minor
- Jazz Studies Minor
- Music History | Ethnomusicology Minor
- Music Performance Minor
- Music Theory Minor
- Theatre Minor
- Theatre Production Minor

CERTIFICATES

- Art Education Certificate
- Ceramics Certificate
- Dance in Medicine Certificate
- Graphic Design Certificate
- Music in Medicine Certificate
- Music Performance Certificate
- Visual Arts in Medicine Certificate

Admission and Satisfactory Progress

Art

Admission requirements for UF freshmen and sophomores not currently majoring in art

Freshmen and sophomores who would like to change their majors to an art studio major must submit a conditional portfolio of no more than ten pieces of artwork. An art faculty committee will review these portfolios and accept or deny conditional admission into an art studio major. Upon conditional admission, a student will begin lower-division art studio courses. A professional portfolio must be submitted to gain admission into the upper-division studio art programs (3000/4000-level classes).

Students interested in changing their majors to art history must complete ARH 2050 and ARH 2051 with no grade lower than a B before gaining admission.

Students may not change their majors to an art major if they are currently on probation in their college. Students may not change their majors to an art major after having completed 75 credits, which includes current enrollment.

Preparation for Degrees in Art (art education, art history, graphic design, and studio art): Admission to the B.F.A., B.A.A.Ed., B.A.H.A. or B.A. degree programs is not automatic. At the end of the sophomore year or 60 credits, all students must meet minimum GPA requirements and submit a portfolio based upon the previous two years' art work for admission to the 3000-level course sequence in their concentration. All students are encouraged to work with faculty members in order to submit the best portfolio possible. Admission is highly selective and competitive. The portfolio deadline for fall admission is March 15.

Upper-division transfer admission: The Office of Admissions determines the transferability of credit earned at other institutions. Upper-division transfer students (applicants with at least 60 credit credits) may transfer no more than 60 credits from a public college as part of the credits required for a UF degree; this limit does not apply to coursework taken at a four-year institution. Students who have achieved advanced upper-division status, 90 credits or more at a four-year institution, may not be admitted.

Transfer students who have been accepted into UF to a major other than one in SAAH must complete all of the prerequisite courses at another institution and submit a professional portfolio according to the March 15 deadline for admission into an upper-division art major.

Dance

Admission

Admission is selective and students must audition successfully. Dance auditions may be scheduled throughout the year. Students audition in two technique classes of different styles, one class at intermediate level or higher. A résumé also is required. Video audition tapes will be considered. Performance audition ratings may be used for placement level in studio course sequences. Students must consult the department advisor for specific information regarding selective admission protocols.

Satisfactory Progress

Students must receive a minimum grade of C in all major courses and stand for periodic academic and artistic reviews. Majors are guaranteed participation in the production program through the production and performance laboratory course and are expected to attend scheduled departmentals.

Digital Arts and Sciences (DAS)

Admission

Admission to the upper-division BA in DAS degree is not automatic. By the end of the sophomore year (or 60 credits of undergraduate coursework), all students must meet minimum GPA requirements and have submitted a portfolio of original work, demonstrating competency in digital art and computer programming. The UF Office of Admissions deadline for fall is March 1; the deadline for portfolio submission is March 15.

Satisfactory Progress

Students must receive minimum grades of C in all courses for the major and stand for periodic academic and program reviews.

Upper-division transfer admission

The Office of Admissions determines the transferability of credit earned at other institutions. Upper-division transfer students (applicants with at least 60 credits) may transfer no more than 60 credits from a public college as part of the credits required for a UF degree; this limit does not apply to coursework taken at a four-year institution. Students who have achieved advanced upper-division status, 90 credits or more at a four-year institution, may not be admitted.

Transfer students who do not have a completed application on file by the deadline, including all required documentation, transcripts, etc., will not be considered for admission and must apply for a subsequent term.

Music

Admission

Admission to any curricula in the School of Music includes an audition and acceptance in a performance area. A minimum 2.0 GPA is required, except in music education where a 2.5 GPA is required. Prospective majors should contact the school's director of admission as early as possible.

School Requirements

For admission to the professional level of study, all music majors must complete:

- Musicianship Assessment Jury, taken at the end of the theory sequence (usually at completion of 60 credits)
- Secondary Piano Levels I to IV with minimum grades of C or successful completion of the secondary piano proficiency exam
- The Preprofessional Performance Jury (taken the last semester of MV_ 2XXX)
- Ensemble semesters as required by the student's degree track
- Four semesters of Recital Attendance (MUS 1010) with grades of S

A comprehensive musicianship jury will take place at the end of each semester of theory. The final comprehensive musicianship exam will be taken at this jury after four semester of theory. All students must pass this exam whether theory courses are completed at UF or are transferred from another institution. Transfer students must successfully complete at UF, with minimum grades of C, any remedial coursework assigned by the School of Music before taking the final comprehensive musicianship exam.

Students who exhibit excellent potential as music majors but who are not adequately prepared to enter the theory sequence as required by the degree track, may be granted provisional status. Students with provisional status are placed in MUT 1001. After successfully completing MUT 1001, provisional students are eligible for classification as preprofessional music majors.

Transfer students, with or without A.A. degrees, who have satisfactorily completed the required four semesters of music theory sequence and four semesters of lower-division performance study, and four semesters of piano skills, must **successfully** pass a comprehensive musicianship exam during auditions to the School of Music to be considered a junior. Those students who have not met the above requirements must take a **comprehensive musicianship exam for placement within the theory program and must then successfully pass a comprehensive musicianship exam upon completion of the theory coursework assigned for remediation.**

Music majors must earn a minimum grade of C in each required music course, both to fulfill degree requirements and to advance to the next level. All music students must stand for a performance examination each term they are enrolled in performance study. No course can be repeated more than once, except for ensembles, performance courses and project courses. Consult the school's undergraduate student handbook for specific requirements.

General Education Requirements

- Students can fulfill three credits of the mathematics requirements by taking PHI 2100 or computer sciences courses.
- All music majors will take in humanities:

Code	Title	Credits
MUH 3211	Music History Survey 1	3
MUH 3212	Music History Survey 2	3
MUH 3213	Music History Survey 3	3
Select one of the following:		3
MUH 2501	Introduction to World Musics	
MUH 3530	Popular and Traditional Musics of Africa	3
MUH 3541	Latin American Music	

- Students in the Bachelor of Music in music education program must fulfill six of the 9-credit social/behavioral sciences requirement by taking EDF 2085 and PSY 2012.
- In the School of Music, the following required courses are classified as international courses: MUH 3211 and MUH 3212.
- A student should take a minimum of three credits in biological or physical science while completing the 9-credit physical/biological science requirement. Music education majors cannot vary credits in general education, but must complete them according to state mandates.

Speech and Reading Requirements / Education Requirements: The speech requirement for music education is met through MUE 3311 and MUE 3330; the reading requirement is met through RED 3312. The introductory education and technology courses required by the College of Education are MUE 2040 and MUS 1360.

Theatre

Admission

Admission to the Department of Theatre and Dance is selective. Before admission to the B.F.A. program, students must audition successfully for the acting or music theatre major, or present a portfolio for the production major in scene, costume or lighting design. A résumé also is required. Video audition tapes will be considered.

Performance audition or design portfolio review ratings can establish the student's placement level in studio course sequences. Students must consult the department advisor for admission audition/portfolio requirements and deadlines.

Students seeking admission to the B.A. programs must schedule an admission interview with the theatre advisor before starting the preprofessional courses.

Satisfactory Progress

Students must receive minimum grades of C in all courses in the major and stand for periodic academic and artistic reviews. All majors are guaranteed participation in the production program through the production and performance laboratory course and are expected to attend scheduled departmentals.

Art | BFA

School of Art and Art History's comprehensive curriculum provides instruction in studio art, design, art history, art education and museum studies (graduate students only). It also prepares students for advanced study or employment in art-related fields as diverse as museum operations, advertising, information graphics and production, and management in the arts.

About this Program

- **College:** Arts (p. 1030)
- **School:** School of Art and Art History
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Art and Technology (p. 1038) | Ceramics (p. 1042) | Creative Photography (p. 1046) | Drawing (p. 1051) | Painting (p. 1055) | Printmaking (p. 1059) | Sculpture (p. 1063)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Art Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The school's size, diverse programs and degree offerings, as well as facilities result in a fully configured art school within the largest university in the Southeast. The school, with the other units of the College of the Arts and the Harn Museum of Art, shares the mission of serving as an educational, professional and cultural resource in the visual arts for the campus, community, state and region.

All coursework required for the major must be completed with minimum grades of C.

Related Art Programs

- Bachelor of Arts in Art Education (http://catalog.ufl.edu/UGRD/colleges-schools/UGART/ARE_BAED)
- Bachelor of Arts in History of Art (p. 1068)
- Bachelor of Arts in Visual Art Studies (p. 1180)
- Art History minor (p. 1072)
- Studio Art minor (p. 1151)
- Art Education certificate (p. 1067)
- Arts in Medicine certificate (p. 1073)
- Ceramics certificate (p. 1073)
- Graphic Design certificate (p. 1093)

Academic Learning Compact

The Bachelor of Fine Arts in art studio enables students to achieve proficiency in the principles and practices utilized by professional artists and affiliated industries. Through the study of art theory, art history and historic and contemporary art, students gain knowledge of art genres and systems of thought. Emphasis is on development of the concepts and skills related to art studio and the development of a personal artistic idiom. Students will learn to use research practices effectively and to discuss the development of their work in speech and in writing.

Before Graduating Students Must

- Pass a particular test, a final project, a term paper and/or a portfolio, as determined by specialization.
- Pass a senior-level capstone course that includes an exhibition of the student's work (portfolio). The portfolio will be evaluated by appropriate faculty prior to graduation.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Understand the principals and elements of artistic practice in the area of study.
2. Produce artworks choosing and employing media and techniques appropriate within the area of study.

Critical Thinking

3. Develop sound research methods and production practices to create a focused body of work.
4. Manage a studio practice that demonstrates complex thought, analysis and reasoning.

Communication

5. Create a professional portfolio.
6. Describe art research and practice in writing.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

All Specializations

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ARH 3XXX and/or ARH 4XXX	R	R	R	R	R	R
ART 1803C	I	I	I	I	I	I
ART 2XXX	I	I	I	I	I	I
ART 4955C	A	A	A	A	A	A
ART 4XXXC Capstone course for specializations, below	R	R	R	R	R	R
DIG 2131C or DIG 2282C	I	I	I	I	I	I

Specialization: Art and Technology

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3616C	I	I	R	R	R	R
ART 3632C	I	I	R	R	R	R
ART 3959C	I	I	R	R	R	R
ART 4612C	I	I	R	R	R	R
ART 4639C	I	I	R	R	R	R
ART 4645C	I	I	R	R	R	R
ART 4848C	R	R	R	R	R	R

Specialization: Ceramics

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3764	I	I	R	R	R	R
ART 3768C	I	I	R	R	R	R
ART 3783C	I	I	R	R	R	R
ART 3784C	I	I	R	R	R	R
ART 4760C	R	R	R	R	R	R

Specialization: Creative Photography

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
PGY 2101C	I	I	I	I	I	I
ART 2441C	I	I	I	I	I	I
ART 2442C	I	I	I	I	I	I
PGY 3410C	I	I	R	R	R	R
PGY 3444C	I	I	R	R	R	R
PGY 3820C	I	I	R	R	R	R
PGY 4156C	I	I	R	R	R	R
PGY 4420C	R	R	R	R	R	R

Specialization: Drawing

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3310C	I	I	R	R	R	R
ART 3332C	I	I	R	R	R	R
ART 3380C	I	I	R	R	R	R
ART 3381C	I	I	R	R	R	R
ART 4312C	R	R	R	R	R	R

Specialization: Painting

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3504C	I	I	R	R	R	R
ART 3522C	I	I	R	R	R	R
ART 3560C	I	I	R	R	R	R
ART 3561C	I	I	R	R	R	R
ART 4505C	R	R	R	R	R	R

Specialization: Printmaking

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3420C	I	I	R	R	R	R
ART 3433C	I	I	R	R	R	R
ART 3442C	I	I	R	R	R	R
ART 3462C	I	I	R	R	R	R
ART 4402C	R	R	R	R	R	R

Specialization: Sculpture

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3711C	I	I	R	R	R	R
ART 3712C	I	I	R	R	R	R
ART 3715C	I	I	R	R	R	R
ART 3842C	R	R	R	R	R	R
ART 4710C	R	R	R	R	R	R

Assessment Types for All Specializations

- Portfolio

Art | Art and Technology

School of Art and Art History's comprehensive curriculum provides instruction in studio art, design, art history, art education and museum studies (graduate students only). It also prepares students for advanced study or employment in art-related fields as diverse as museum operations, advertising, information graphics and production, and management in the arts.

About this Program

- **College:** Arts (p. 1030)
- **School:** School of Art and Art History
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Art and Technology (p. 1038) | Ceramics (p. 1042) | Creative Photography (p. 1046) | Drawing (p. 1051) | Painting (p. 1055) | Printmaking (p. 1059) | Sculpture (p. 1063)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Art Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The school's size, diverse programs and degree offerings, as well as facilities result in a fully configured art school within the largest university in the Southeast. The school, with the other units of the College of the Arts and the Harn Museum of Art, shares the mission of serving as an educational, professional and cultural resource in the visual arts for the campus, community, state and region.

All coursework required for the major must be completed with minimum grades of C.

Related Art Programs

- Bachelor of Arts in Art Education (http://catalog.ufl.edu/UGRD/colleges-schools/UGART/ARE_BAED)
- Bachelor of Arts in History of Art (p. 1068)
- Bachelor of Arts in Visual Art Studies (p. 1180)
- Art History minor (p. 1072)

- Studio Art minor (p. 1151)
- Art Education certificate (p. 1067)
- Arts in Medicine certificate (p. 1073)
- Ceramics certificate (p. 1073)
- Graphic Design certificate (p. 1093)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500702&track=01) may be used for transfer students.

Semester 1

- Complete ART 1803C for 6 credits or six credits of any ART/PGY/GRA course at the 2000 level with minimum grades of C
- 2.0 UF GPA required

Semester 2

- Complete 2 of 5 critical-tracking courses with minimum grades of C: ARH 2050, ARH 2051, ART 2305C, DIG 2131C, DIG 2282C
- 2.5 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.75 UF GPA required

Semester 4

- Complete remaining critical-tracking courses with minimum grades of C
- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ART 1803C	Workshop for Art Research and Practice: WARP (**Critical Tracking**)	6
DIG 1000C	Workshop in Fundamental Digital Technologies	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15
Semester Two		
ARH 2050	Introduction to the Principles and History of Art 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2305C	Perceptual Drawing (**Critical Tracking**)	3
Select one:		3
ART 2468C	Printmaking: Figure Ground	
ART 2500C	Painting: Investigations in Black and White	
GRA 2111C	Visual Methods and Processes	
DIG 2131C	Digital Imaging (**Critical Tracking**)	3
Gen Ed Composition		3
	Credits	15
Semester Three		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities and International)	3

ART 2701C or ART 2757C	Sculpture: Shaping Form and Space or Ceramics: 3D Concepts	3
DIG 2282C	Time-based Media (**Critical Tracking**)	3
MAC 1147	Precalculus Algebra and Trigonometry (State Core Gen Ed Mathematics (p. 23))	4
PGY 2101C	Visual Literacy: Photography (Gen Ed Humanities)	3
	Credits	16
Semester Four		
ART 2501C or ART 2401C	Painting: Investigations in Color or Printmaking: Color Theory	3
GRA 2208C	Typography 1: Letterform	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Mathematics		3
Studio elective (ART/GRA/PGY prefix at 2000 level)		3
	Credits	15
Semester Five		
ART 2620C	Net Art	3
ART 3959C	Video Art	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Art history elective (ARH prefix at 3000/4000 level)		3
Approved elective (f3000/4000 level)		3
	Credits	15
Semester Six		
ART 3616C	Digital Art and Animation 1	3
IDC 3500C	Programming for Artists	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Art history elective (ARH prefix at 3000/4000 level)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
	Credits	15
Semester Seven		
ART 4612C	Digital Media Workshop	3
ART 4645C	Sensors and Electronics-Based Art	3
Gen Ed Social and Behavioral Sciences		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		2
	Credits	14
Semester Eight		
ART 4639C	Advanced Experiments in Art and Technology	3
ART 4848C	Installation Using Digital Processes	3
ART 4955C	Senior Project	1
State Core Gen Ed Humanities (p. 23)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		2
	Credits	15
	Total Credits	120

Academic Learning Compact

The Bachelor of Fine Arts in art studio enables students to achieve proficiency in the principles and practices utilized by professional artists and affiliated industries. Through the study of art theory, art history and historic and contemporary art, students gain knowledge of art genres and systems of thought. Emphasis is on development of the concepts and skills related to art studio and the development of a personal artistic idiom. Students will learn to use research practices effectively and to discuss the development of their work in speech and in writing.

Before Graduating Students Must

- Pass a particular test, a final project, a term paper and/or a portfolio, as determined by specialization.
- Pass a senior-level capstone course that includes an exhibition of the student's work (portfolio). The portfolio will be evaluated by appropriate faculty prior to graduation.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Understand the principals and elements of artistic practice in the area of study.
2. Produce artworks choosing and employing media and techniques appropriate within the area of study.

Critical Thinking

3. Develop sound research methods and production practices to create a focused body of work.
4. Manage a studio practice that demonstrates complex thought, analysis and reasoning.

Communication

5. Create a professional portfolio.
6. Describe art research and practice in writing.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

All Specializations

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ARH 3XXX and/or ARH 4XXX	R	R	R	R	R	R
ART 1803C	I	I	I	I	I	I
ART 2XXX	I	I	I	I	I	I
ART 4955C	A	A	A	A	A	A
ART 4XXXC Capstone course for specializations, below	R	R	R	R	R	R
DIG 2131C or DIG 2282C	I	I	I	I	I	I

Specialization: Art and Technology

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3616C	I	I	R	R	R	R
ART 3632C	I	I	R	R	R	R
ART 3959C	I	I	R	R	R	R
ART 4612C	I	I	R	R	R	R
ART 4639C	I	I	R	R	R	R
ART 4645C	I	I	R	R	R	R
ART 4848C	R	R	R	R	R	R

Specialization: Ceramics

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3764	I	I	R	R	R	R
ART 3768C	I	I	R	R	R	R
ART 3783C	I	I	R	R	R	R
ART 3784C	I	I	R	R	R	R
ART 4760C	R	R	R	R	R	R

Specialization: Creative Photography

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
PGY 2101C	I	I	I	I	I	I
ART 2441C	I	I	I	I	I	I
ART 2442C	I	I	I	I	I	I
PGY 3410C	I	I	R	R	R	R
PGY 3444C	I	I	R	R	R	R

PGY 3820C	I	I	R	R	R	R
PGY 4156C	I	I	R	R	R	R
PGY 4420C	R	R	R	R	R	R

Specialization: Drawing

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3310C	I	I	R	R	R	R
ART 3332C	I	I	R	R	R	R
ART 3380C	I	I	R	R	R	R
ART 3381C	I	I	R	R	R	R
ART 4312C	R	R	R	R	R	R

Specialization: Painting

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3504C	I	I	R	R	R	R
ART 3522C	I	I	R	R	R	R
ART 3560C	I	I	R	R	R	R
ART 3561C	I	I	R	R	R	R
ART 4505C	R	R	R	R	R	R

Specialization: Printmaking

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3420C	I	I	R	R	R	R
ART 3433C	I	I	R	R	R	R
ART 3442C	I	I	R	R	R	R
ART 3462C	I	I	R	R	R	R
ART 4402C	R	R	R	R	R	R

Specialization: Sculpture

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3711C	I	I	R	R	R	R
ART 3712C	I	I	R	R	R	R
ART 3715C	I	I	R	R	R	R
ART 3842C	R	R	R	R	R	R
ART 4710C	R	R	R	R	R	R

Assessment Types for All Specializations

- Portfolio

Art | Ceramics

School of Art and Art History's comprehensive curriculum provides instruction in studio art, design, art history, art education and museum studies (graduate students only). It also prepares students for advanced study or employment in art-related fields as diverse as museum operations, advertising, information graphics and production, and management in the arts.

About this Program

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- **Credits for Degree:** 120
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Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500702&track=01) may be used for transfer students.

Semester 1

- Complete ART 1803C for 6 credits or six credits of any ART/PGY/GRA course at the 2000 level with minimum grades of C
- 2.0 UF GPA required

Semester 2

- Complete 2 of 6 critical-tracking courses with minimum grades of C: ARH 2050, ARH 2051, ART 2305C, ART 2704C, ART 2757C, ART 2752C
- 2.5 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.75 UF GPA required

Semester 4

- Complete remaining critical-tracking courses with minimum grades of C
- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ART 1803C	Workshop for Art Research and Practice: WARP (**Critical Tracking**)	6
DIG 1000C	Workshop in Fundamental Digital Technologies	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15

Semester Two		
ARH 2050	Introduction to the Principles and History of Art 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2305C	Perceptual Drawing (**Critical Tracking**)	3
Select one:		3
ART 2468C	Printmaking: Figure Ground	
ART 2500C	Painting: Investigations in Black and White	
GRA 2111C	Visual Methods and Processes	
ART 2757C	Ceramics: 3D Concepts (**Critical Tracking**)	3
Gen Ed Composition		3
	Credits	15
Semester Three		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2501C or ART 2401C	Painting: Investigations in Color or Printmaking: Color Theory	3
ART 2704C	Figurative Ceramics (**Critical Tracking**)	3
PGY 2101C	Visual Literacy: Photography (Gen Ed Humanities)	3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15
Semester Four		
ART 2752C	Throwing: Skills and Concepts (**Critical Tracking**)	3
DIG 2131C or DIG 2282C	Digital Imaging or Time-based Media	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Mathematics, pure math		3
Studio elective (ART/GRA/PGY prefix at 2000 level)		3
	Credits	15
Semester Five		
ART 3764C	Ceramic Sculpture 1	3
ART 3783C	Ceramic Design	3
Gen Ed Biological or Physical Sciences		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Approved elective (3000/4000 level)		3
	Credits	15
Semester Six		
ART 3768C	Ceramic Sculpture 2	3
ART 3784C	Vessel Aesthetic 2	3
Art history elective (ARH prefix at 3000/4000 level)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		3
	Credits	15
Semester Seven		
ART 4760C	Advanced Ceramics	6
Gen Ed Social and Behavioral Sciences		3
Art history elective (ARH prefix at 3000/4000 level)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
	Credits	15
Semester Eight		
ART 4760C	Advanced Ceramics (repeat)	6
ART 4955C	Senior Project	1
State Core Gen Ed Humanities (p. 23)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		2
	Credits	15
	Total Credits	120

Academic Learning Compact

The Bachelor of Fine Arts in art studio enables students to achieve proficiency in the principles and practices utilized by professional artists and affiliated industries. Through the study of art theory, art history and historic and contemporary art, students gain knowledge of art genres and systems

of thought. Emphasis is on development of the concepts and skills related to art studio and the development of a personal artistic idiom. Students will learn to use research practices effectively and to discuss the development of their work in speech and in writing.

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Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Understand the principals and elements of artistic practice in the area of study.
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3. Develop sound research methods and production practices to create a focused body of work.
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5. Create a professional portfolio.
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Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

All Specializations

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ARH 3XXX and/or ARH 4XXX	R	R	R	R	R	R
ART 1803C	I	I	I	I	I	I
ART 2XXX	I	I	I	I	I	I
ART 4955C	A	A	A	A	A	A
ART 4XXXC Capstone course for specializations, below	R	R	R	R	R	R
DIG 2131C or DIG 2282C	I	I	I	I	I	I

Specialization: Art and Technology

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3616C	I	I	R	R	R	R
ART 3632C	I	I	R	R	R	R
ART 3959C	I	I	R	R	R	R
ART 4612C	I	I	R	R	R	R
ART 4639C	I	I	R	R	R	R
ART 4645C	I	I	R	R	R	R
ART 4848C	R	R	R	R	R	R

Specialization: Ceramics

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3764	I	I	R	R	R	R
ART 3768C	I	I	R	R	R	R
ART 3783C	I	I	R	R	R	R

ART 3784C	I	I	R	R	R	R
ART 4760C	R	R	R	R	R	R

Specialization: Creative Photography

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
PGY 2101C	I	I	I	I	I	I
ART 2441C	I	I	I	I	I	I
ART 2442C	I	I	I	I	I	I
PGY 3410C	I	I	R	R	R	R
PGY 3444C	I	I	R	R	R	R
PGY 3820C	I	I	R	R	R	R
PGY 4156C	I	I	R	R	R	R
PGY 4420C	R	R	R	R	R	R

Specialization: Drawing

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3310C	I	I	R	R	R	R
ART 3332C	I	I	R	R	R	R
ART 3380C	I	I	R	R	R	R
ART 3381C	I	I	R	R	R	R
ART 4312C	R	R	R	R	R	R

Specialization: Painting

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3504C	I	I	R	R	R	R
ART 3522C	I	I	R	R	R	R
ART 3560C	I	I	R	R	R	R
ART 3561C	I	I	R	R	R	R
ART 4505C	R	R	R	R	R	R

Specialization: Printmaking

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3420C	I	I	R	R	R	R
ART 3433C	I	I	R	R	R	R
ART 3442C	I	I	R	R	R	R
ART 3462C	I	I	R	R	R	R
ART 4402C	R	R	R	R	R	R

Specialization: Sculpture

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3711C	I	I	R	R	R	R
ART 3712C	I	I	R	R	R	R
ART 3715C	I	I	R	R	R	R
ART 3842C	R	R	R	R	R	R
ART 4710C	R	R	R	R	R	R

Assessment Types for All Specializations

- Portfolio

Art | Creative Photography

School of Art and Art History's comprehensive curriculum provides instruction in studio art, design, art history, art education and museum studies (graduate students only). It also prepares students for advanced study or employment in art-related fields as diverse as museum operations, advertising, information graphics and production, and management in the arts.

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- **Credits for Degree:** 120
- **Additional Information**
- **Related Art Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The school's size, diverse programs and degree offerings, as well as facilities result in a fully configured art school within the largest university in the Southeast. The school, with the other units of the College of the Arts and the Harn Museum of Art, shares the mission of serving as an educational, professional and cultural resource in the visual arts for the campus, community, state and region.

All coursework required for the major must be completed with minimum grades of C.

Related Art Programs

- Bachelor of Arts in Art Education (http://catalog.ufl.edu/UGRD/colleges-schools/UGART/ARE_BAED)
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Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500702&track=01) may be used for transfer students.

Semester 1

- Complete ART 1803C for 6 credits or six credits of any ART/PGY/GRA course at the 2000 level with minimum grades of C
- 2.0 UF GPA required

Semester 2

- Complete 2 of 6 critical-tracking courses with minimum grades of C: ARH 2050, ARH 2051, ART 2305C, PGY 2101C, PGY 2441C, PGY 2442C
- 2.5 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.75 UF GPA required

Semester 4

- Complete remaining critical-tracking courses with minimum grades of C
- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

Students also must complete a 2-D, a 3-D and a 4-D course as part of their 2000-level studio requirements. A portfolio review will be required of students before admission into junior-level studio courses.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ART 1803C	Workshop for Art Research and Practice: WARP (**Critical Tracking**)	6
DIG 1000C	Workshop in Fundamental Digital Technologies	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15
Semester Two		
ARH 2050	Introduction to the Principles and History of Art 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2305C	Perceptual Drawing (**Critical Tracking**)	3
ART 2757C or ART 2701C	Ceramics: 3D Concepts or Sculpture: Shaping Form and Space	3
PGY 2101C	Visual Literacy: Photography (**Critical Tracking**; Gen Ed Humanities)	3
Gen Ed Composition		3
	Credits	15
Semester Three		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities and International)	3
Select one:		3
ART 2468C	Printmaking: Figure Ground	
ART 2500C	Painting: Investigations in Black and White	
GRA 2111C	Visual Methods and Processes	
ART 2501C or ART 2401C	Painting: Investigations in Color or Printmaking: Color Theory	3
PGY 2441C	Photography: Images, Order and Idea (**Critical Tracking**)	3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15
Semester Four		
DIG 2131C	Digital Imaging	3
PGY 2442C	Photography: Figure and Ground (**Critical Tracking**)	3
Gen Ed Mathematics, pure math		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Studio elective (ART/GRA/PGY prefix at 2000 level)		3
	Credits	15
Semester Five		
PGY 3410C	Photography: Color	3
PGY 3444C	Photography: Black and White	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Art history elective (ARH prefix at 3000/4000 level)		3
Approved elective (3000/4000 level)		3
	Credits	15
Semester Six		
PGY 3820C	Photography: Digital	3
PGY 4156C	Large Format Photography	3
Art history elective (ARH prefix at 3000/4000 level)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		3
	Credits	15
Semester Seven		
PGY 4420C	Advanced Photography	6
Gen Ed Biological or Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
	Credits	15

Semester Eight		
ART 4955C	Senior Project	1
PGY 4420C	Advanced Photography (repeat)	6
State Core Gen Ed Humanities (p. 23)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		2
	Credits	15
	Total Credits	120

Academic Learning Compact

The Bachelor of Fine Arts in art studio enables students to achieve proficiency in the principles and practices utilized by professional artists and affiliated industries. Through the study of art theory, art history and historic and contemporary art, students gain knowledge of art genres and systems of thought. Emphasis is on development of the concepts and skills related to art studio and the development of a personal artistic idiom. Students will learn to use research practices effectively and to discuss the development of their work in speech and in writing.

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Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Understand the principals and elements of artistic practice in the area of study.
2. Produce artworks choosing and employing media and techniques appropriate within the area of study.

Critical Thinking

3. Develop sound research methods and production practices to create a focused body of work.
4. Manage a studio practice that demonstrates complex thought, analysis and reasoning.

Communication

5. Create a professional portfolio.
6. Describe art research and practice in writing.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

All Specializations

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ARH 3XXX and/or ARH 4XXX	R	R	R	R	R	R
ART 1803C	I	I	I	I	I	I
ART 2XXX	I	I	I	I	I	I
ART 4955C	A	A	A	A	A	A
ART 4XXXC Capstone course for specializations, below	R	R	R	R	R	R
DIG 2131C or DIG 2282C	I	I	I	I	I	I

Specialization: Art and Technology

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3616C	I	I	R	R	R	R
ART 3632C	I	I	R	R	R	R
ART 3959C	I	I	R	R	R	R

ART 4612C	I	I	R	R	R	R
ART 4639C	I	I	R	R	R	R
ART 4645C	I	I	R	R	R	R
ART 4848C	R	R	R	R	R	R

Specialization: Ceramics

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3764	I	I	R	R	R	R
ART 3768C	I	I	R	R	R	R
ART 3783C	I	I	R	R	R	R
ART 3784C	I	I	R	R	R	R
ART 4760C	R	R	R	R	R	R

Specialization: Creative Photography

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
PGY 2101C	I	I	I	I	I	I
ART 2441C	I	I	I	I	I	I
ART 2442C	I	I	I	I	I	I
PGY 3410C	I	I	R	R	R	R
PGY 3444C	I	I	R	R	R	R
PGY 3820C	I	I	R	R	R	R
PGY 4156C	I	I	R	R	R	R
PGY 4420C	R	R	R	R	R	R

Specialization: Drawing

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3310C	I	I	R	R	R	R
ART 3332C	I	I	R	R	R	R
ART 3380C	I	I	R	R	R	R
ART 3381C	I	I	R	R	R	R
ART 4312C	R	R	R	R	R	R

Specialization: Painting

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3504C	I	I	R	R	R	R
ART 3522C	I	I	R	R	R	R
ART 3560C	I	I	R	R	R	R
ART 3561C	I	I	R	R	R	R
ART 4505C	R	R	R	R	R	R

Specialization: Printmaking

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3420C	I	I	R	R	R	R
ART 3433C	I	I	R	R	R	R
ART 3442C	I	I	R	R	R	R
ART 3462C	I	I	R	R	R	R
ART 4402C	R	R	R	R	R	R

Specialization: Sculpture

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3711C	I	I	R	R	R	R
ART 3712C	I	I	R	R	R	R
ART 3715C	I	I	R	R	R	R
ART 3842C	R	R	R	R	R	R
ART 4710C	R	R	R	R	R	R

Assessment Types for All Specializations

- Portfolio

Art | Drawing

School of Art and Art History's comprehensive curriculum provides instruction in studio art, design, art history, art education and museum studies (graduate students only). It also prepares students for advanced study or employment in art-related fields as diverse as museum operations, advertising, information graphics and production, and management in the arts.

About this Program

- **College:** Arts (p. 1030)
- **School:** School of Art and Art History
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Art and Technology (p. 1038) | Ceramics (p. 1042) | Creative Photography (p. 1046) | Drawing (p. 1051) | Painting (p. 1055) | Printmaking (p. 1059) | Sculpture (p. 1063)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Art Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The school's size, diverse programs and degree offerings, as well as facilities result in a fully configured art school within the largest university in the Southeast. The school, with the other units of the College of the Arts and the Harn Museum of Art, shares the mission of serving as an educational, professional and cultural resource in the visual arts for the campus, community, state and region.

All coursework required for the major must be completed with minimum grades of C.

Related Art Programs

- Bachelor of Arts in Art Education (http://catalog.ufl.edu/UGRD/colleges-schools/UGART/ARE_BAED)
- Bachelor of Arts in History of Art (p. 1068)
- Bachelor of Arts in Visual Art Studies (p. 1180)
- Art History minor (p. 1072)
- Studio Art minor (p. 1151)
- Art Education certificate (p. 1067)
- Arts in Medicine certificate (p. 1073)
- Ceramics certificate (p. 1073)
- Graphic Design certificate (p. 1093)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500702&track=01) may be used for transfer students.

Semester 1

- Complete ART 1803C for 6 credits or six credits of any ART/PGY/GRA course at the 2000 level with minimum grades of C
- 2.0 UF GPA required

Semester 2

- Complete 2 of 5 critical-tracking courses with minimum grades of C: ARH 2050, ARH 2051, ART 2305C, ART 2374C, ART 2330C
- 2.5 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.75 UF GPA required

Semester 4

- Complete remaining critical-tracking courses with minimum grades of C
- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ART 1803C	Workshop for Art Research and Practice: WARP (**Critical Tracking**)	6
DIG 1000C	Workshop in Fundamental Digital Technologies	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Composition; Writing Requirement		3
	Credits	15
Semester Two		
ARH 2050	Introduction to the Principles and History of Art 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2305C	Perceptual Drawing (**Critical Tracking**)	3
Select one:		3
ART 2468C	Printmaking: Figure Ground	
ART 2500C	Painting: Investigations in Black and White	
GRA 2111C	Visual Methods and Processes	
ART 2757C or ART 2701C	Ceramics: 3D Concepts or Sculpture: Shaping Form and Space	3
State Core Gen Ed Composition (p. 23)		3
	Credits	15
Semester Three		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2374C	Drawing: Movement and Motion (**Critical Tracking**)	3
ART 2501C or ART 2401C	Painting: Investigations in Color or Printmaking: Color Theory	3
PGY 2101C	Visual Literacy: Photography (Gen Ed Humanities)	3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15
Semester Four		
ART 2330C	Figure Drawing 1 (**Critical Tracking**)	3
DIG 2131C or DIG 2282C	Digital Imaging or Time-based Media	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Mathematics, pure math		3
Studio elective (ART/GRA/PGY prefix at 2000 level)		3
	Credits	15
Semester Five		
ART 3310C	Color Drawing	3
ART 3381C	Sketch Journal: Uses and Development	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Art history elective (ARH prefix at 3000/4000 level)		3
Approved elective (3000/4000 level)		3
	Credits	15
Semester Six		
ART 3332C	Figure Drawing 2	3
ART 3380C	Experimental Drawing	3
Art history elective (ARH prefix at 3000/4000 level)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		3
	Credits	15

Semester Seven		
ART 4312C	Advanced Drawing	6
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
	Credits	15
Semester Eight		
ART 4312C	Advanced Drawing (repeat)	6
ART 4955C	Senior Project	1
State Core Gen Ed Humanities (p. 23)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		2
	Credits	15
	Total Credits	120

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The Bachelor of Fine Arts in art studio enables students to achieve proficiency in the principles and practices utilized by professional artists and affiliated industries. Through the study of art theory, art history and historic and contemporary art, students gain knowledge of art genres and systems of thought. Emphasis is on development of the concepts and skills related to art studio and the development of a personal artistic idiom. Students will learn to use research practices effectively and to discuss the development of their work in speech and in writing.

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Content

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Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

All Specializations

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ARH 3XXX and/or ARH 4XXX	R	R	R	R	R	R
ART 1803C	I	I	I	I	I	I
ART 2XXX	I	I	I	I	I	I
ART 4955C	A	A	A	A	A	A
ART 4XXXC Capstone course for specializations, below	R	R	R	R	R	R
DIG 2131C or DIG 2282C	I	I	I	I	I	I

Specialization: Art and Technology

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3616C	I	I	R	R	R	R
ART 3632C	I	I	R	R	R	R
ART 3959C	I	I	R	R	R	R
ART 4612C	I	I	R	R	R	R
ART 4639C	I	I	R	R	R	R
ART 4645C	I	I	R	R	R	R
ART 4848C	R	R	R	R	R	R

Specialization: Ceramics

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3764	I	I	R	R	R	R
ART 3768C	I	I	R	R	R	R
ART 3783C	I	I	R	R	R	R
ART 3784C	I	I	R	R	R	R
ART 4760C	R	R	R	R	R	R

Specialization: Creative Photography

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
PGY 2101C	I	I	I	I	I	I
ART 2441C	I	I	I	I	I	I
ART 2442C	I	I	I	I	I	I
PGY 3410C	I	I	R	R	R	R
PGY 3444C	I	I	R	R	R	R
PGY 3820C	I	I	R	R	R	R
PGY 4156C	I	I	R	R	R	R
PGY 4420C	R	R	R	R	R	R

Specialization: Drawing

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3310C	I	I	R	R	R	R
ART 3332C	I	I	R	R	R	R
ART 3380C	I	I	R	R	R	R
ART 3381C	I	I	R	R	R	R
ART 4312C	R	R	R	R	R	R

Specialization: Painting

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3504C	I	I	R	R	R	R
ART 3522C	I	I	R	R	R	R
ART 3560C	I	I	R	R	R	R
ART 3561C	I	I	R	R	R	R
ART 4505C	R	R	R	R	R	R

Specialization: Printmaking

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3420C	I	I	R	R	R	R
ART 3433C	I	I	R	R	R	R
ART 3442C	I	I	R	R	R	R
ART 3462C	I	I	R	R	R	R
ART 4402C	R	R	R	R	R	R

Specialization: Sculpture

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3711C	I	I	R	R	R	R
ART 3712C	I	I	R	R	R	R
ART 3715C	I	I	R	R	R	R
ART 3842C	R	R	R	R	R	R
ART 4710C	R	R	R	R	R	R

Assessment Types for All Specializations

- Portfolio

Art | Painting

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DIG 1000C	Workshop in Fundamental Digital Technologies	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15
Semester Two		
ARH 2050	Introduction to the Principles and History of Art 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2305C	Perceptual Drawing (**Critical Tracking**)	3
ART 2500C	Painting: Investigations in Black and White (**Critical Tracking**)	3
ART 2757C or ART 2701C	Ceramics: 3D Concepts or Sculpture: Shaping Form and Space	3
Gen Ed Composition		3
	Credits	15
Semester Three		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2501C	Painting: Investigations in Color (**Critical Tracking**)	3
PGY 2101C	Visual Literacy: Photography (Gen Ed Humanities)	3
State Core Gen Ed Mathematics (p. 23)		3
Studio elective (ART/GRA/PGY prefix at 2000 level)		3
	Credits	15
Semester Four		
ART 2503C	Painting from Observation (**Critical Tracking**)	3
DIG 2131C or DIG 2282C	Digital Imaging or Time-based Media	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Mathematics, pure math		3
Studio elective (ART/GRA/PGY prefix at 2000 level)		3
	Credits	15
Semester Five		
ART 3560C	Figure Painting	3
ART 3561C	Projects in Painting: Experiments in Media	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Art history elective (ARH prefix at 3000/4000 level)		3
Approved elective (3000/4000 level)		3
	Credits	15

Semester Six		
ART 3504C	Painting: Structure and Transformation	3
ART 3522C	Painting: Exploring the Series	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Art history elective (ARH prefix at 3000/4000 level)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
	Credits	15
Semester Seven		
ART 4505C	Advanced Painting	6
Gen Ed Social and Behavioral Sciences		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		3
	Credits	15
Semester Eight		
ART 4505C	Advanced Painting (repeat)	6
ART 4955C	Senior Project	1
State Core Gen Ed Humanities (p. 23)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		2
	Credits	15
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All Specializations

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ARH 3XXX and/or ARH 4XXX	R	R	R	R	R	R
ART 1803C	I	I	I	I	I	I
ART 2XXX	I	I	I	I	I	I
ART 4955C	A	A	A	A	A	A

ART 4XXXC Capstone course for specializations, below	R	R	R	R	R	R
DIG 2131C or DIG 2282C	I	I	I	I	I	I

Specialization: Art and Technology

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3616C	I	I	R	R	R	R
ART 3632C	I	I	R	R	R	R
ART 3959C	I	I	R	R	R	R
ART 4612C	I	I	R	R	R	R
ART 4639C	I	I	R	R	R	R
ART 4645C	I	I	R	R	R	R
ART 4848C	R	R	R	R	R	R

Specialization: Ceramics

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3764	I	I	R	R	R	R
ART 3768C	I	I	R	R	R	R
ART 3783C	I	I	R	R	R	R
ART 3784C	I	I	R	R	R	R
ART 4760C	R	R	R	R	R	R

Specialization: Creative Photography

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
PGY 2101C	I	I	I	I	I	I
ART 2441C	I	I	I	I	I	I
ART 2442C	I	I	I	I	I	I
PGY 3410C	I	I	R	R	R	R
PGY 3444C	I	I	R	R	R	R
PGY 3820C	I	I	R	R	R	R
PGY 4156C	I	I	R	R	R	R
PGY 4420C	R	R	R	R	R	R

Specialization: Drawing

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3310C	I	I	R	R	R	R
ART 3332C	I	I	R	R	R	R
ART 3380C	I	I	R	R	R	R
ART 3381C	I	I	R	R	R	R
ART 4312C	R	R	R	R	R	R

Specialization: Painting

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3504C	I	I	R	R	R	R
ART 3522C	I	I	R	R	R	R
ART 3560C	I	I	R	R	R	R
ART 3561C	I	I	R	R	R	R
ART 4505C	R	R	R	R	R	R

Specialization: Printmaking

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3420C	I	I	R	R	R	R
ART 3433C	I	I	R	R	R	R

ART 3442C	I	I	R	R	R	R
ART 3462C	I	I	R	R	R	R
ART 4402C	R	R	R	R	R	R

Specialization: Sculpture

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3711C	I	I	R	R	R	R
ART 3712C	I	I	R	R	R	R
ART 3715C	I	I	R	R	R	R
ART 3842C	R	R	R	R	R	R
ART 4710C	R	R	R	R	R	R

Assessment Types for All Specializations

- Portfolio

Art | Printmaking

School of Art and Art History's comprehensive curriculum provides instruction in studio art, design, art history, art education and museum studies (graduate students only). It also prepares students for advanced study or employment in art-related fields as diverse as museum operations, advertising, information graphics and production, and management in the arts.

About this Program

- **College:** Arts (p. 1030)
- **School:** School of Art and Art History
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Art and Technology (p. 1038) | Ceramics (p. 1042) | Creative Photography (p. 1046) | Drawing (p. 1051) | Painting (p. 1055) | Printmaking (p. 1059) | Sculpture (p. 1063)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Art Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The school's size, diverse programs and degree offerings, as well as facilities result in a fully configured art school within the largest university in the Southeast. The school, with the other units of the College of the Arts and the Harn Museum of Art, shares the mission of serving as an educational, professional and cultural resource in the visual arts for the campus, community, state and region.

All coursework required for the major must be completed with minimum grades of C.

Related Art Programs

- Bachelor of Arts in Art Education (http://catalog.ufl.edu/UGRD/colleges-schools/UGART/ARE_BAED)
- Bachelor of Arts in History of Art (p. 1068)
- Bachelor of Arts in Visual Art Studies (p. 1180)
- Art History minor (p. 1072)
- Studio Art minor (p. 1151)
- Art Education certificate (p. 1067)
- Arts in Medicine certificate (p. 1073)
- Ceramics certificate (p. 1073)
- Graphic Design certificate (p. 1093)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500702&track=01) may be used for transfer students.

Semester 1

- Complete ART 1803C for 6 credits or six credits of any ART/PGY/GRA course at the 2000 level with minimum grades of C
- 2.0 UF GPA required

Semester 2

- Complete 2 of 5 critical-tracking courses with minimum grades of C: ARH 2050, ARH 2051, ART 2305C, ART 2401C, ART 2468C
- 2.5 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.75 UF GPA required

Semester 4

- Complete remaining critical-tracking courses with minimum grades of C
- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ART 1803C	Workshop for Art Research and Practice: WARP (**Critical Tracking**)	6
DIG 1000C	Workshop in Fundamental Digital Technologies	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15
Semester Two		
ARH 2050	Introduction to the Principles and History of Art 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2305C	Perceptual Drawing (**Critical Tracking**)	3
ART 2468C	Printmaking: Figure Ground (**Critical Tracking**)	3
ART 2757C or ART 2701C	Ceramics: 3D Concepts or Sculpture: Shaping Form and Space	3
Gen Ed Composition		3
	Credits	15
Semester Three		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2401C	Printmaking: Color Theory (**Critical Tracking**)	3
State Core Gen Ed Mathematics (p. 23)		3
Studio electives (ART/GRA/PGY prefix at 2000 level)		6
	Credits	15
Semester Four		
DIG 2131C or DIG 2282C	Digital Imaging or Time-based Media	3
PGY 2101C	Visual Literacy: Photography (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Mathematics, pure math		3
Studio elective (ART/GRA/PGY prefix at 2000 level)		3
	Credits	15
Semester Five		
ART 3420C	Printmaking: Lithography	3
ART 3442C	Printmaking: Intaglio	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Art history elective (ARH prefix at 3000/4000 level)		3

Approved elective (3000/4000 level)		3
	Credits	15
Semester Six		
ART 3433C	Screen Printing	3
ART 3462C	Print Photo Intaglio	3
Art history elective (ARH prefix at 3000/4000 level)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		3
	Credits	15
Semester Seven		
ART 4402C	Advanced Printmaking	6
Gen Ed Biological or Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
	Credits	15
Semester Eight		
ART 4402C	Advanced Printmaking (repeat)	6
ART 4955C	Senior Project	1
State Core Gen Ed Humanities (p. 23)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		2
	Credits	15
	Total Credits	120

Academic Learning Compact

The Bachelor of Fine Arts in art studio enables students to achieve proficiency in the principles and practices utilized by professional artists and affiliated industries. Through the study of art theory, art history and historic and contemporary art, students gain knowledge of art genres and systems of thought. Emphasis is on development of the concepts and skills related to art studio and the development of a personal artistic idiom. Students will learn to use research practices effectively and to discuss the development of their work in speech and in writing.

Before Graduating Students Must

- Pass a particular test, a final project, a term paper and/or a portfolio, as determined by specialization.
- Pass a senior-level capstone course that includes an exhibition of the student's work (portfolio). The portfolio will be evaluated by appropriate faculty prior to graduation.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Understand the principals and elements of artistic practice in the area of study.
2. Produce artworks choosing and employing media and techniques appropriate within the area of study.

Critical Thinking

3. Develop sound research methods and production practices to create a focused body of work.
4. Manage a studio practice that demonstrates complex thought, analysis and reasoning.

Communication

5. Create a professional portfolio.
6. Describe art research and practice in writing.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

All Specializations

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ARH 3XXX and/or ARH 4XXX	R	R	R	R	R	R
ART 1803C	I	I	I	I	I	I

ART 2XXX	I	I	I	I	I	I
ART 4955C	A	A	A	A	A	A
ART 4XXXC Capstone course for specializations, below	R	R	R	R	R	R
DIG 2131C or DIG 2282C	I	I	I	I	I	I

Specialization: Art and Technology

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3616C	I	I	R	R	R	R
ART 3632C	I	I	R	R	R	R
ART 3959C	I	I	R	R	R	R
ART 4612C	I	I	R	R	R	R
ART 4639C	I	I	R	R	R	R
ART 4645C	I	I	R	R	R	R
ART 4848C	R	R	R	R	R	R

Specialization: Ceramics

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3764	I	I	R	R	R	R
ART 3768C	I	I	R	R	R	R
ART 3783C	I	I	R	R	R	R
ART 3784C	I	I	R	R	R	R
ART 4760C	R	R	R	R	R	R

Specialization: Creative Photography

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
PGY 2101C	I	I	I	I	I	I
ART 2441C	I	I	I	I	I	I
ART 2442C	I	I	I	I	I	I
PGY 3410C	I	I	R	R	R	R
PGY 3444C	I	I	R	R	R	R
PGY 3820C	I	I	R	R	R	R
PGY 4156C	I	I	R	R	R	R
PGY 4420C	R	R	R	R	R	R

Specialization: Drawing

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3310C	I	I	R	R	R	R
ART 3332C	I	I	R	R	R	R
ART 3380C	I	I	R	R	R	R
ART 3381C	I	I	R	R	R	R
ART 4312C	R	R	R	R	R	R

Specialization: Painting

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3504C	I	I	R	R	R	R
ART 3522C	I	I	R	R	R	R
ART 3560C	I	I	R	R	R	R
ART 3561C	I	I	R	R	R	R
ART 4505C	R	R	R	R	R	R

Specialization: Printmaking

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3420C	I	I	R	R	R	R
ART 3433C	I	I	R	R	R	R
ART 3442C	I	I	R	R	R	R
ART 3462C	I	I	R	R	R	R
ART 4402C	R	R	R	R	R	R

Specialization: Sculpture

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3711C	I	I	R	R	R	R
ART 3712C	I	I	R	R	R	R
ART 3715C	I	I	R	R	R	R
ART 3842C	R	R	R	R	R	R
ART 4710C	R	R	R	R	R	R

Assessment Types for All Specializations

- Portfolio

Art | Sculpture

School of Art and Art History's comprehensive curriculum provides instruction in studio art, design, art history, art education and museum studies (graduate students only). It also prepares students for advanced study or employment in art-related fields as diverse as museum operations, advertising, information graphics and production, and management in the arts.

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- **Credits for Degree:** 120
- **Additional Information**
- **Related Art Programs**

To graduate with this major, students must complete all university, college, and major requirements.

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Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500702&track=01) may be used for transfer students.

Semester 1

- Complete ART 1803C for 6 credits or six credits of any ART/PGY/GRA course at the 2000 level with minimum grades of C
- 2.0 UF GPA required

Semester 2

- Complete 2 of 5 critical-tracking courses with minimum grades of C: ARH 2050, ARH 2051, ART 2305C, ART 2701C, ART 2702C
- 2.5 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.75 UF GPA required

Semester 4

- Complete remaining critical-tracking courses with minimum grades of C
- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ART 1803C	Workshop for Art Research and Practice: WARP (**Critical Tracking**)	6
DIG 1000C	Workshop in Fundamental Digital Technologies	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15
Semester Two		
ARH 2050	Introduction to the Principles and History of Art 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2305C	Perceptual Drawing (**Critical Tracking**)	3
Select one:		3
ART 2468C	Printmaking: Figure Ground	
ART 2500C	Painting: Investigations in Black and White	
GRA 2111C	Visual Methods and Processes	
ART 2701C	Sculpture: Shaping Form and Space (**Critical Tracking**)	3
Gen Ed Composition		3
	Credits	15
Semester Three		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2702C	Sculpture: Gravity and Buoyancy (**Critical Tracking**)	3
PGY 2101C	Visual Literacy: Photography (Gen Ed Humanities)	3
State Core Gen Ed Mathematics (p. 23)		3
Studio elective (ART/GRA/PGY prefix at 2000 level)		3
	Credits	15
Semester Four		
ART 2501C or ART 2401C	Painting: Investigations in Color or Printmaking: Color Theory	3

DIG 2131C or DIG 2282C	Digital Imaging or Time-based Media	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Mathematics, pure math		3
Studio elective (ART/GRA/PGY prefix at 2000 level)		3
	Credits	15
Semester Five		
ART 3711C	Sculpture: Materials and Methods	3
ART 3712C	Sculpture: Concepts and Strategies	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Art history elective (ARH prefix at 3000/4000 level)		3
Approved elective (f3000/4000 level)		3
	Credits	15
Semester Six		
ART 3734C	Sculpture Metals	3
ART 3842C	Performance and Installation	3
Art history elective (ARH prefix at 3000/4000 level)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		3
	Credits	15
Semester Seven		
ART 4710C	Advanced Sculpture	6
Gen Ed Biological or Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
	Credits	15
Semester Eight		
ART 4710C	Advanced Sculpture (repeat)	6
ART 4955C	Senior Project	1
State Core Gen Ed Humanities (p. 23)		3
Studio elective (ART/DIG/GRA/PGY prefix at 3000/4000 level)		3
Elective		2
	Credits	15
	Total Credits	120

Academic Learning Compact

The Bachelor of Fine Arts in art studio enables students to achieve proficiency in the principles and practices utilized by professional artists and affiliated industries. Through the study of art theory, art history and historic and contemporary art, students gain knowledge of art genres and systems of thought. Emphasis is on development of the concepts and skills related to art studio and the development of a personal artistic idiom. Students will learn to use research practices effectively and to discuss the development of their work in speech and in writing.

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- Pass a particular test, a final project, a term paper and/or a portfolio, as determined by specialization.
- Pass a senior-level capstone course that includes an exhibition of the student's work (portfolio). The portfolio will be evaluated by appropriate faculty prior to graduation.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Understand the principals and elements of artistic practice in the area of study.
2. Produce artworks choosing and employing media and techniques appropriate within the area of study.

Critical Thinking

3. Develop sound research methods and production practices to create a focused body of work.
4. Manage a studio practice that demonstrates complex thought, analysis and reasoning.

Communication

5. Create a professional portfolio.
6. Describe art research and practice in writing.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

All Specializations

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ARH 3XXX and/or ARH 4XXX	R	R	R	R	R	R
ART 1803C	I	I	I	I	I	I
ART 2XXX	I	I	I	I	I	I
ART 4955C	A	A	A	A	A	A
ART 4XXXC Capstone course for specializations, below	R	R	R	R	R	R
DIG 2131C or DIG 2282C	I	I	I	I	I	I

Specialization: Art and Technology

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3616C	I	I	R	R	R	R
ART 3632C	I	I	R	R	R	R
ART 3959C	I	I	R	R	R	R
ART 4612C	I	I	R	R	R	R
ART 4639C	I	I	R	R	R	R
ART 4645C	I	I	R	R	R	R
ART 4848C	R	R	R	R	R	R

Specialization: Ceramics

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3764	I	I	R	R	R	R
ART 3768C	I	I	R	R	R	R
ART 3783C	I	I	R	R	R	R
ART 3784C	I	I	R	R	R	R
ART 4760C	R	R	R	R	R	R

Specialization: Creative Photography

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
PGY 2101C	I	I	I	I	I	I
ART 2441C	I	I	I	I	I	I
ART 2442C	I	I	I	I	I	I
PGY 3410C	I	I	R	R	R	R
PGY 3444C	I	I	R	R	R	R
PGY 3820C	I	I	R	R	R	R
PGY 4156C	I	I	R	R	R	R
PGY 4420C	R	R	R	R	R	R

Specialization: Drawing

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3310C	I	I	R	R	R	R
ART 3332C	I	I	R	R	R	R
ART 3380C	I	I	R	R	R	R

ART 3381C	I	I	R	R	R	R
ART 4312C	R	R	R	R	R	R

Specialization: Painting

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3504C	I	I	R	R	R	R
ART 3522C	I	I	R	R	R	R
ART 3560C	I	I	R	R	R	R
ART 3561C	I	I	R	R	R	R
ART 4505C	R	R	R	R	R	R

Specialization: Printmaking

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3420C	I	I	R	R	R	R
ART 3433C	I	I	R	R	R	R
ART 3442C	I	I	R	R	R	R
ART 3462C	I	I	R	R	R	R
ART 4402C	R	R	R	R	R	R

Specialization: Sculpture

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ART 3711C	I	I	R	R	R	R
ART 3712C	I	I	R	R	R	R
ART 3715C	I	I	R	R	R	R
ART 3842C	R	R	R	R	R	R
ART 4710C	R	R	R	R	R	R

Assessment Types for All Specializations

- Portfolio

Art Education Certificate

This certificate meets the needs of students who wish to teach art in Florida's public schools. The certificate's curriculum covers the special subject knowledge and pedagogical skills associated with teaching art, and prepares candidates for licensure as PreK-12 art teachers in Florida public schools.

About this Program

- **Colleges:** Arts (p. 1030) and Education (p. 341)
- **Credits:** 21 | Completed with minimum grades of B

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

This certificate provides the skills and competencies required for effectively teaching art in Florida's PreK-12 public schools, as identified by the State of Florida's Six Florida Educator Accomplished Practices (or FEAPS). The School of Art and Art History in cooperation with the College of Education oversees this program.

Students must demonstrate a basic level of competency in a studio area or design, as verified by an acceptable portfolio. It is strongly recommended that students have coursework in one or more of the following areas: ceramics, drawing, painting, sculpture, printmaking, photography, art and technology, graphic design, or art history. This certificate is best suited for students enrolled in a Bachelor of Arts or Bachelor of Fine Arts degree program in the visual arts, design, or art history.

Interested students must meet with the School of Art and Art History undergraduate advisor for more information, course planning, and to obtain provisional approval prior to enrolling in certificate coursework.

To qualify for admission to the certificate program, a student must complete the following:

- Submit an acceptable portfolio of ten digital images of personal works of art and an academic writing sample.
- Pass a background check and meet state fingerprint requirements.

- Submit passing scores on the General Knowledge Test of the Florida Teacher Certification Exam (FTCE).
- Apply and be admitted to the certificate program following the processes and procedures of the University, the academic unit offering the Certificate, and the College dean or designee.
- Purchase a Livetext™ account via the College of Education for documentation of the six FEAPS and tasks, and official observation evaluations by the Field and University supervisors.
- Complete ARE 2045 or EDF 1005 with grade of B or better.

Course Requirements

Students must earn grades of B or better in all required courses. Additionally, 2000-level coursework should be taken before 3000-level coursework. Exceptions may be made with advisor approval.

Prerequisite

Complete the following course before making formal application to the certificate program. It's recommended this course be taken before end of the sophomore year.

Code	Title	Credits
ARE 2045	Introduction to Teaching Art	3
or EDF 1005	Introduction to Education	

Required Courses

Complete after approval of formal application to the certificate program. It's recommended these courses be taken in the junior and senior years.

Code	Title	Credits
ARE 4242	Teaching Art: the Study of Practice	3
ARE 4243	Principles of Teaching Art	3
ARE 4934C	Student Teaching Seminar	1
ARE 4940	Student Teaching in Art Education	8
TSL 4324	ESOL Strategies for Content Area Teachers (College of Education)	3

To complete this certificate program, students must also achieve these non-course requirements:

- Successful completion of ARE 4940 as evidenced by overall ratings of "accomplished" or "exceptional on each of the six FEAP categories indicated on the Intern Evaluation form.
- Satisfactory review of a teaching portfolio conducted by art education faculty and an external professional art educator at the culmination of the internship practicum.
- Passing scores on the Art Subject Area Examination (SAE) ART K-12 and the Professional Education examination (PED) portions of the Florida Teacher Certification Exam (FTCE).

Art History

The art history program introduces students to global culture through the lens of art and architecture. Art history embraces an interdisciplinary approach that draws on history, archaeology, anthropology, religion, literature, and other allied disciplines to understand and interpret visual culture. The curriculum cultivates skills in critical analysis, research, oral and written communication, and visual literacy that prepare students for careers and graduate/professional schools in diverse fields in and outside the arts. We are able to offer face-to-face instruction by permanent faculty who are actively engaged in international research.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts in History of Art
- **Credits for Degree:** 120
- **Additional Information**
- **Related Art Programs**

To graduate with this major, students must complete all university, college, and major requirements.

All coursework required for the major must be completed with minimum grades of C.

Students pursuing the BA in Art History take 14 courses (42 credits) in the School of Art + Art History:

Code	Title	Credits
ARH 2050	Introduction to the Principles and History of Art 1	3
ARH 2051	Introduction to the Principles and History of Art 2	3
Any 1000 or 2000 level ART course for majors or non-majors		3
Select one:		3
2000-level ARH survey course that focuses on the art of Africa, Asia, and/or Latin America and/or on the art of Native Americans, Aboriginal Australians, and/or Pacific Islanders		
ARH 2500	Non-Western Art	
Any 3000 or 4000-level ARH courses		21
Any 3000 or 4000-level ARH or ART courses		6
ARH 4931	Art History Seminar	3
Total Credits		42

ARH 3000/4000 Electives Distribution Requirements

The ARH courses at the 3000 /4000 level must be distributed chronologically:

- at least 3 credits, Art before 1300
- at least 3 credits, Art from 1300 to 1750
- at least 3 credits, Art after 1750

If a course applies to two chronological categories; a student may use it to fulfill the requirement for only one chronological category.

The ARH courses at the 3000/4000 level must also be distributed in the following ways:

- at least 3 credits, Art of the ancient Mediterranean basin and/or ancient Near East and/or the art of Europe and/or the United States
- at least 3 credits, Art of Africa, Asia, and/or Latin America and/or the art of Native Americans, Aboriginal Australians, and/or Pacific Islanders

If a course applies to both of these categories; a student can use it to fulfill the requirement for only one category.

Beyond the required courses in the SA+AH, students must take 5 of their electives (15 credits) at the 3000/4000 level in any discipline.

Majors also need to demonstrate college-level foreign language proficiency. Foreign language skills prepare students for art historical research and greater international engagement. You may already be proficient in a foreign language or you may need additional study to demonstrate proficiency. The art history program requires the same level of proficiency as the majors in the College of Liberal Arts and Sciences. See CLAS Foreign Language Requirement for ways to demonstrate proficiency by exam, college-level credit from another institution, or taking coursework at UF.

Students planning to attend graduate school in art history should develop foreign language skills beyond the minimum requirement. Advanced art historical research requires reading complex primary and secondary sources in multiple foreign languages. The faculty will gladly advise students on foreign language study.

Related Art Programs

- Bachelor of Fine Arts (p. 1035)
- Art History minor (p. 1072)
- Art Education certificate (p. 1067)
- Arts in Medicine certificate (p. 1073)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500703&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical-tracking courses with minimum grades of C: ARH 2050, ARH 2051, ARH 2500 or any 2000 level ARH survey course that focuses on the art of Africa, Asia, and/or Latin America and/or on the art of Native Americans, Aboriginal Australians, and/or Pacific Islanders, one ART at 1000/2000 level, beginning sequence of a foreign language that can be used for art historical research
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.75 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking courses with minimum grades of C
- 3.0 GPA required for all critical-tracking courses
- 2.0 UF GPA

Semester 5

- Complete all additional critical-tracking courses with minimum grades of C
- 3.0 GPA on all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ARH 2050	Introduction to the Principles and History of Art 1 (**Critical Tracking**)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Foreign language Beginning Sequence 1 (**Critical Tracking**)		3-5
Gen Ed Composition; Writing Requirement		3
	Credits	12-14
Semester Two		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**)	3
Foreign language Beginning Sequence 2 (**Critical Tracking**)		3-5
State Core Gen Ed Mathematics, pure math (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	12-14
Semester Three		
Select one:		3
ARH 2500	Non-Western Art (**Critical Tracking**)	
ARH survey course (**Critical Tracking**; 2000 level) [1]		
State Core Gen Ed Biological and Physical Sciences (p. 23)		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Four		
Select one ART elective (**Critical Tracking**; 1000/2000 level)		3
ARH art history elective (3000/4000 level)		3
Gen Ed Biological or Physical Sciences		3
State Core Gen Ed Composition (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
ARH art history electives (3000/4000 level)		6

Gen Ed Biological or Physical Sciences		3
Elective (3000/4000 level)		3
Elective		3
	Credits	15
Semester Six		
ARH art history electives (3000/4000 level)		6
Electives (3000/4000 level)		6
Elective		3
	Credits	15
Semester Seven		
ARH 4931	Art History Seminar	3
ARH art history electives (3000/4000 level)		6
Elective (3000/4000 level)		3
Electives		6
	Credits	18
Semester Eight		
ART or ARH art studio or art history electives (3000/4000 level)		6
Elective (3000/4000 level)		3
Electives		9
	Credits	18
	Total Credits	120

[1] Focuses on the art of Africa, Asia, and/or Latin America and/or on the art of Native Americans, Aboriginal Australians, and/or Pacific Islanders 3000/4000 level.

Academic Learning Compact

The Bachelor of Arts in art history enables students to achieve proficiency in historical theory and criticism of art, to communicate independent, critical perspectives and to employ research methodology effectively. Through study of literature, social forces, ideology, cultural history and visual representation students will develop knowledge of the ancient, medieval, Renaissance/Baroque and modern world arts. Students will also develop the ability to construct arguments and engage in advanced thought and analysis, in speech and in writing.

Before Graduating Students Must

- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe and interpret works of art and other materials about art's cultural and historical context.

Critical Thinking

2. Examine and assess an art historical topic by applying appropriate research practices.
3. Examine and assess scholarly literature, including scholarly methodology.

Communication

4. Formulate oral analysis of works of art in their historical or cultural context.
5. Produce written analysis of works of art in their historical or cultural context.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
ARH 2050	I	I	I		I
ARH 2051	I	I	I		I
ARH 2500	I	I	I		I
ARH 3522	R	R	R	R	R
ARH 3552	R	R	R	R	R
ARH 3652	R	R	R	R	R
ARH 4930	R	R	R	R	R

ARH 4931 Or Other Senior Seminar	A	A	A	A	A

Assessment Types

- Research paper
- Oral presentation

Art History Minor

The art history minor is offered by the School of Art and Art History and is available to all students. Students must meet with the art advisor to apply to this minor.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 18 | Completed with minimum grades of C
- **Related Art Programs**

Independent studies and internships do not fulfill credits toward this minor. At least nine credits of art history courses must be completed at UF.

Required Courses

Code	Title	Credits
Complete before applying to the minor		
ARH 2050	Introduction to the Principles and History of Art 1	3
ARH 2051	Introduction to the Principles and History of Art 2	3
Complete after admission to the minor		
ARH 2500	Non-Western Art	3
Select 9 credits of art history courses (3000/4000 level)		9
Total Credits		18

Related Art Programs

- Bachelor of Fine Arts (p. 1035)
- Bachelor of Arts in History of Art (p. 1068)
- Art Education certificate (p. 1067)
- Arts in Medicine certificate (p. 1073)

Art History Minor | New World School of the Arts

The art history minor, New World School of the Arts, is offered by the School of Art and Art History and is available to all students. Students must meet with the art advisor to apply to this minor.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Art Programs**

Independent studies and internships do not fulfill credits toward this minor. At least nine credits of art history courses must be completed at UF.

Required Courses

Code	Title	Credits
Complete before applying to the minor		
ARH 2050	Introduction to the Principles and History of Art 1	3
ARH 2051	Introduction to the Principles and History of Art 2	3
Complete after admission to the minor		
Select 9 credits of art history courses (3000/4000 level)		9
Total Credits		15

Related Art Programs

- Bachelor of Fine Arts (p. 1035)
- Bachelor of Arts in Art Education (http://catalog.ufl.edu/UGRD/colleges-schools/UGART/ARE_BAED)
- Bachelor of Arts in History of Art (p. 1068)
- Art History minor (p. 1072)
- Art Education certificate (p. 1067)
- Arts in Healthcare certificate (p. 1073)

Visual Arts in Medicine Certificate

The certificate focuses on the use of the visual arts to enhance individual and community health and healthcare environments. Students will learn theory and practice in the field of arts in health and will develop skills for applying the visual arts to health and wellbeing in healthcare and community settings.

About this Program

- **College**: Arts (p. 1030)
- **Credits**: 13
- **Contact**: Email (fcarytsas@arts.ufl.edu)
- **Additional Information** (http://www.arts.ufl.edu/CAHRE)
- **Related Arts in Medicine Programs**

The Center for Arts in Medicine's certificate in visual arts in medicine is open to all students and accepts applications November 1 through April 30.

Application Procedures

Students interested in obtaining this certificate should apply to the program (http://www.admissions.ufl.edu/start.html) by their junior year. Students from any major may apply to the program, but must complete at least 50% of certificate requirements after they have been accepted into the program.

The application process includes:

- Completion of the online application (http://www.admissions.ufl.edu/apply/more) (students should email (fcarytsas@arts.ufl.edu) when they submit the application)
- Submission of a one-page personal statement and two letters of recommendation to the undergraduate certificate advisor
- An interview with the advisor and/or Center for Arts in Medicine director

Requirements

To qualify for the certificate, students must attain a 3.0 average in all courses included in the certificate curriculum within six months of graduation.

Required Courses

Code	Title	Credits
ARE 2045	Introduction to Teaching Art	3
HUM 2592	Introduction to the Arts in Medicine in a Global Context	3
HUM 3351	Visual Arts in Medicine	2
HUM 3940L	Arts in Medicine Practicum 1	2
ART/PGY/GRA 3/4000-level studio course		3
Capstone		0
Total Credits		13

Related Arts in Medicine Programs

- Dance in Medicine certificate (p. 1074)
- Music in Medicine certificate (p. 1105)

Ceramics Certificate

The School of Art and Art History (SAAH) certificate program enables students with a major outside of the visual arts to take a series of classes within the studio arts where clay is used as the art material. Classes expose students to art-making practices within the field of ceramics, develop

manual skills in clay forming, increase visual understanding of content in art and enable the student to explore personal decision-making and creative problem-solving in art-making.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 18-21
- **Contact:**
  - General Information | Email (dmyers@arts.ufl.edu)
  - Contact, Portfolios, and Coursework | Email (nan@ufl.edu)

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The certificate is awarded by the SAAH to acknowledge a concentration in ceramics within a student's external major and general course of study. Students must maintain a minimum GPA of 3.0 in the certificate program. Students are admitted based on a portfolio review by faculty in the ceramics.

The coursework includes 4-5 sequenced ceramics classes plus a required course in art theory and art fundamentals. Students will leave the program with the ability to throw on the potter's wheel, model, and carve. They also will have developed skills in hand-forming processes and gained knowledge of glaze application techniques and kiln firing methods.

Required Courses

Code	Title	Credits
Select one:		3
ARH 2002	Introduction to Art: the Artistic Experience	
ARH 2050	Introduction to the Principles and History of Art 1	
ARH 2051	Introduction to the Principles and History of Art 2	
ARH 2500	Non-Western Art	
ART 2305C	Perceptual Drawing	6
& ART 2757C	and Ceramics: 3D Concepts	
ART 2704C	Figurative Ceramics	6
& ART 2752C	and Throwing: Skills and Concepts	
Select one to two:		3-6
ART 3764C	Ceramic Sculpture 1	
ART 3768C	Ceramic Sculpture 2 (offered spring only)	
ART 3783C	Ceramic Design	
ART 3784C	Vessel Aesthetic 2 (offered spring only)	
Total Credits		18-21

Dance in Medicine Certificate

The School of Theatre and Dance, in conjunction with the Center for the Arts in Medicine, offers this certificate to recognize special competencies and achievements in the use of movement to enhance health and healing.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 14
- **Contact:** Email (fcarytsas@arts.ufl.edu)
- **Related Arts in Medicine Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Students who complete the requirements for this certificate leave UF with unique capabilities and experiences. This certificate can serve as a credential for developing complementary career options and can encourage healthcare facilities to expand or to initiate arts programs.

Students should apply by their junior year and contact the center director to schedule an initial meeting to discuss requirements.

Students must attain a 3.0 GPA in the required courses, all of which have prerequisites.

Required Courses

Code	Title	Credits
DAA 2610	Dance Composition 1	2
DAA 2611	Dance Composition 2	2
DAA 3108	Intermediate Modern Dance	2
Select one:		3
DAA 4930	Special Topics in Dance (Introduction to the Arts in Healthcare)	
Arts in Medicine Summer Intensive (non-credit, must earn certificate of completion)		
DAN 3775	Dance in Medicine	2
DAN 4860L	Dance Clinical Practice	3
Total Credits		14

Additional Requirement

- Capstone: 20 clinical hours
  Additionally: interviews, self-evaluation, and faculty evaluation

Related Arts in Medicine Programs

- Visual Arts in Medicine certificate (p. 1073)
- Music in Medicine certificate (p. 1105)

Dance Minor

The dance minor is designed to bring the student in close contact with classroom expertise in technique, as well as the enriching artistic and production aspects of dance.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 16-18
- **Related Dance Programs**

Admission to the dance minor requires the completion of Basic Modern Dance at UF with a minimum grade of B. Students then will meet with the dance minor advisor for approval to enter the program and to establish a program of study.

The minor is comprised of a core of 10-11 credits plus 6-7 credits of emphasis as approved by the advisor. At least 12 of these credits must be completed at UF. It normally takes four semesters to complete the minor.

DAA 1000 does not count towards the minor.

Required Courses

Code	Title	Credits
DAA Technique course		2-3
DAA 2104	Basic Modern Dance [1]	2
DAA 2610	Dance Composition 1 (fall only)	2
DAN 2100	Dance Appreciation for the Twenty-first Century	3
DAA 4930	Special Topics in Dance [2]	1
Emphasis Electives		6-7
Total Credits		16-18

[1] Minimum grade of B required.

[2] Showcase Experience. Assignment in dance area.

Approved Electives

Emphasis Electives

Advisor approval required

Code	Title	Credits
DAA Technique course (see approved list)		2-3
DAA 4920	Summer Dance Intensive	3
DAA 4930	Special Topics in Dance	1-3
DAN 3775	Dance in Medicine	2-3
THE 4950	Production and Performance	1

DAA Technique Courses

Code	Title	Credits
DAA 2204	Basic Ballet	2
DAA 2331	West African Dance and Music	2
DAA 2381	World Dance and Intercultural Performance	3
DAA 2504	Basic Jazz	2
DAA 3108	Intermediate Modern Dance	2
DAA 3208	Intermediate Ballet	2
DAA 3508	Intermediate Jazz	2
DAA 4110	Advanced Modern Dance	2
DAA 4210	Advanced Ballet	2
DAA 4510	Advanced Jazz	2

Related Dance Programs

- Bachelor of Arts in Dance (p. 1076)
- Bachelor of Fine Arts in Dance (p. 1079)
- Dance in Medicine certificate (p. 1074)

Dance | Bachelor of Arts

The Bachelor of Arts (B.A.) in dance is designed to educate the student as a generalist in dance studies. In addition to a course of study essential to the field of dance the B.A. provides the student with the flexibility to pursue other areas of study.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Dance Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Admission

Admission to the B.A. dance program for incoming freshmen does not require an audition. Transfer students should consult with the department regarding admission requirements.

Satisfactory Progress

Students must receive minimum grades of C in all courses for the major. After completion of the second semester students are evaluated by faculty for permission to continue in the program.

Related Dance Programs

- Bachelor of Fine Arts in Dance (p. 1079)
- Dance minor (p. 1075)
- Dance in Medicine certificate (p. 1074)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500301&track=02) may be used for transfer students.

Semester 1

- Complete 2 of 7 critical-tracking courses with minimum grades of C: DAA 2104 twice, DAA 2204, two DAA technique dance courses (as placed), DAN 2100, and THE 2000
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses with minimum grades of C
- Complete a successful audition/jury as determined by the dance faculty (only for students who did not complete an audition prior to semester 1)
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
DAA 2104	Basic Modern Dance (**Critical Tracking**)	2
DAA 2331	West African Dance and Music	2
DAN 2100	Dance Appreciation for the Twenty-first Century (**Critical Tracking**; Gen Ed Humanities and International)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23)		3
	Credits	13
Semester Two		
DAA 2104	Basic Modern Dance (**Critical Tracking**)	2
DAA 2204	Basic Ballet (**Critical Tracking**)	2
TPA 2232C or TPA 3217	Beginning Costume or Introduction to Lighting and Sound	3-4
Gen Ed Composition		3
State Core Gen Ed Mathematics (p. 23)		3
Elective		2
	Credits	15-16
Semester Three		
DAA 2610	Dance Composition 1	2
DAA technique dance courses (as placed; **Critical Tracking**)		2-3
THE 2000	Theatre Appreciation (**Critical Tracking**; State Core Gen Ed Humanities and International)	3
Gen Ed Mathematics		3
Gen Ed Social and Behavioral Sciences		3
	Credits	13-14
Semester Four		
DAA technique dance courses (**Critical Tracking**; as placed)		2-3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Gen Ed Physical Sciences		3

Outside interest course (3000 level or higher)		3
	Credits	14-15
Semester Five		
DAA technique dance courses (as placed)		2-3
DAA 2381	World Dance and Intercultural Performance	3
THE 4950	Production and Performance	1
Outside elective credits (3000 level or above; can't be from theatre or dance)		6
	Credits	12-13
Semester Six		
DAA technique dance courses (as placed)		2-3
DAN 4180	Professional Development for Dance	1
DAN 4434	Laban Move Analysis	3
Outside elective credits (3000 level or above; can't be from theatre or dance)		9
	Credits	15-16
Summer After Semester Six		
APK 2100C	Applied Human Anatomy with Laboratory (Gen Ed Biological Sciences)	4
DAA 4920	Summer Dance Intensive	3
Outside elective (3000 level or above; can't be from theatre or dance)		3
	Credits	10
Semester Seven		
DAA technique dance courses (as placed)		2-3
DAN 4124	Dance History (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
Outside elective credits (3000 level or above; can't be from theatre or dance)		9
	Credits	15-16
Semester Eight		
DAA technique dance courses (as placed)		2-3
DAN 4959	Senior Project	2
Outside elective credits (3000 level or above; can't be from theatre or dance)		9
	Credits	13-14
	Total Credits	120

Intermediate and advanced-level courses must be approved by the dance advisor and appropriate to the student's technical level.

Academic Learning Compact

The degree program in dance offers two specializations, one leading to a Bachelor of Fine Arts (BFA) and one leading to a Bachelor of Arts (BA).

The Bachelor of Fine Arts in dance provides extensive training and skills in contemporary dance and choreography with four interlocking areas of 21st century dance study: choreography and performance, intercultural dance studies, dance and medicine, and dance theatre. Dance is studied as a major performing art that impacts artistic, cultural, intellectual and social spheres.

The Bachelor of Arts in dance educates the student as a generalist in dance studies. Students follow a course of study essential to the field of dance, including performance, history, theory, literature, design, technology and related disciplines, all while enjoying sufficient flexibility to pursue other areas of study, including a minor or a major in a field other than dance. Successful degree candidates develop independent, interdisciplinary critical thought, and can articulate the power and agency of the arts over time and across cultures and perspectives.

Before Graduating Students Must

- Develop and complete a senior project approved and evaluated by faculty. The BA project would be research oriented; the BFA would be choreographically related.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Develop competency in the terminology, concepts, methodologies and theories of dance studies, and knowledge of varied applications of dance.

Critical Thinking

2. Analyze and fosters dance studies inquiry in correlation with diverse creative, historical, social, cultural perspectives and/or other disciplinary perspectives.

Communication

3. Develop and articulates in writing and/or practice applications of dance studies.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
DAA 2104	I		
DAA 2610	I	I	I
DAA 4430	R	R	R
DAN 2100	I	I	I
DAN 4124	R	R	R
DAN 4180	R	R	R
DAN 4959	A	A	A

Assessment Types

- Final thesis and/or project
- National Association of Schools of Dance (NASD) accreditation review
- Capstone paper or portfolio review
- Juries

Dance | Bachelor of Fine Arts

The Bachelor of Fine Arts (B.F.A.) in dance is intended for professional careers, allied fields or graduate study. This B.F.A. also is offered at the New World School of the Arts in Miami. In addition, the department offers a minor in dance.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Fine Arts
- **Credits for Degree:** 124
- **Additional Information**
- **Related Dance Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Admission

Admission is selective and students must audition successfully. Auditions are held twice yearly. Prospective students should check Theatre and Dance for audition dates and information. The audition is in the form of a technique class including ballet, modern and West African dance styles. Video auditions are accepted in cases where attending the live audition presents a particular hardship. Specific requirements for the video audition are also found on the website. Students may consult the school's undergraduate advisor for admissions information.
More Info (http://www.arts.ufl.edu/theatreanddance/default.aspx)

Satisfactory Progress

Students must receive minimum grades of C in all courses for the major and participate in academic and artistic jury reviews. Majors are expected to participate in the production/performance program through such courses as Production and Performance, World Dance, and Intercultural Performance and Ensembles.

Related Dance Programs

- Bachelor of Arts in Dance (p. 1076)
- Dance minor (p. 1075)
- Dance in Medicine certificate (p. 1074)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500301&track=02) may be used for transfer students.

Semester 1

- Complete 2 of 8 critical-tracking courses: DAA 2104, DAA 2204, three DAA ballet or jazz courses and three DAA modern dance courses, with minimum grades of C
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

A minimum of 48 credits must be completed at the 3000/4000 levels.

Course	Title	Credits
Semester One		
DAA 2104	Basic Modern Dance (**Critical Tracking**)	2
DAA 2204	Basic Ballet (**Critical Tracking**)	2
DAA 2331	West African Dance and Music	2
DAN 2100	Dance Appreciation for the Twenty-first Century (Gen Ed Humanities with International)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15
Semester Two		
DAA 2104	Basic Modern Dance (**Critical Tracking**)	2
DAA 2204	Basic Ballet (**Critical Tracking**)	2
DAN 4180	Professional Development for Dance	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
TPA 2232C	Beginning Costume	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	14
Semester Three		
APK 2100C	Applied Human Anatomy with Laboratory (Gen Ed Biological Sciences)	4
DAA ballet credits (**Critical Tracking**; as placed)		2
DAA modern dance credits (**Critical Tracking**; as placed)		2
DAA 2381	World Dance and Intercultural Performance	3
DAA 2610	Dance Composition 1	2
THE 2000	Theatre Appreciation (State Core Gen Ed Humanities with Diversity (p. 23))	3
	Credits	16
Semester Four		
DAA ballet credits (**Critical Tracking**; as placed)		2
DAA modern dance credits (**Critical Tracking**; as placed)		2
DAA 2611	Dance Composition 2	2
THE 4950	Production and Performance	1

TPP 2110	Acting 1-Instrument and Discipline	3
Gen Ed Mathematics		3
Gen Ed Social and Behavioral Sciences; Writing Requirement		3
	Credits	16
Semester Five		
DAA Ballet credits (as placed)		2
DAA 2381	World Dance and Intercultural Performance	3
DAA 3108 or DAA 4110	Intermediate Modern Dance or Advanced Modern Dance	2
DAA 3614	Dance Composition 3	2
DAN 4434	Laban Move Analysis	3
TPA 3217	Introduction to Lighting and Sound	4
	Credits	16
Semester Six		
DAA ballet credits (as placed)		2
DAA 3108 or DAA 4110	Intermediate Modern Dance or Advanced Modern Dance	2
DAA 3615	Dance Composition 4	2
THE 4950	Production and Performance	1
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Approved electives		4
	Credits	17
Summer After Semester Six		
DAA 4920	Summer Dance Intensive	3
	Credits	3
Semester Seven		
DAA 4110	Advanced Modern Dance	2
DAA 4210	Advanced Ballet	2
DAA 4685	Dance Ensemble	1
DAE 4300	Dance Teaching Methods	3
DAN 4959	Senior Project	2
Approved elective (Writing Requirement)		3
	Credits	13
Semester Eight		
DAA jazz credits (as placed)		2
DAA 4110	Advanced Modern Dance	2
DAA 4685	Dance Ensemble	1
DAN 4124	Dance History	3
DAN 4180	Professional Development for Dance	1
DAN 4959	Senior Project	2
Approved elective		3
	Credits	14
	Total Credits	124

Intermediate and advanced-level courses must be approved by the dance advisor and appropriate to the student's technical level. At least two semesters each of intermediate and advanced modern dance and one semester each of intermediate and advanced jazz and ballet are required.

Academic Learning Compact

The degree program in dance offers two specializations, one leading to a Bachelor of Fine Arts (BFA) and one leading to a Bachelor of Arts (BA).

The Bachelor of Fine Arts in dance provides extensive training and skills in contemporary dance and choreography with four interlocking areas of 21st century dance study: choreography and performance, intercultural dance studies, dance and medicine, and dance theatre. Dance is studied as a major performing art that impacts artistic, cultural, intellectual and social spheres.

The Bachelor of Arts in dance educates the student as a generalist in dance studies. Students follow a course of study essential to the field of dance, including performance, history, theory, literature, design, technology and related disciplines, all while enjoying sufficient flexibility to pursue other areas of study, including a minor or a major in a field other than dance. Successful degree candidates develop independent, interdisciplinary critical thought, and can articulate the power and agency of the arts over time and across cultures and perspectives.

Before Graduating Students Must

- Develop and complete a senior project approved and evaluated by faculty. The BA project would be research oriented; the BFA would be choreographically related.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Develop competency in diverse somatic/choreographic practices and dance studies.

Critical Thinking

2. Conduct and examines choreographic inquiry using diverse creative, historical, social and/or cultural perspectives.

Communication

3. Articulate an original voice in choreographic production and analysis.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
DAA 2104	I		
DAA 2331 or DAA 2381	I	I	I
DAA 2610	I	I	I
DAA 2611 or DAA 3614	R	R	R
DAA 3108 or DAA 4110	R		R
DAA 3615	A	A	A
DAA 4420	I, R	I, R	I, R
DAA 4920	I, R, A	I, R, A	I, R, A
DAN 2100	I	I	
DAN 4124	R	R	R
DAN 4959	A	A	A

Assessment Types

- Final performance
- Thesis and/or project
- National Association of Schools of Dance (NASD) accreditation review
- Capstone research review
- Juries

Digital Arts and Sciences Minor

The digital arts and sciences (DAS) minor crosses traditional college boundaries between the arts, communications, and engineering. Students will become versed in contemporary issues in social and interactive media, critical thinking and creative design solutions. The DAS minor gives students experience working in collaborative teams on media projects including digital storytelling, animation, and game design including serious and applied games.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Digital Arts and Sciences Programs**

Students can apply for the minor through the academic advisor of the Institute. Applications should consist of a proposed curriculum for the minor, a rationale explaining how the proposed courses create a cohesive program and what the student hopes to gain through taking the chosen courses.

Required Courses

All students must complete DIG 3020. The remaining four courses are proposed by the student and approved by the department. The student's proposal must provide a rationale explaining how the proposed courses create a cohesive program and what the student hopes to gain through taking the chosen courses.

Code	Title	Credits
DIG 3020	Foundations of Digital Culture	3
DIG course 1 (Proposed by student)		3
DIG course 2 (Proposed by student)		3
DIG course 3 (Proposed by student)		3
DIG course 4 (Proposed by student)		3
Total Credits		15

Additional Requirements

- All 3000-level and above course work must be completed at the University of Florida
- All course and grade prerequisites must be satisfied

Proposal Courses

Select 4 | Departmental approval required

Code	Title	Credits
DIG 2121	Principles of Digital Visualization	3
DIG 3097	Entrepreneurship in New Media	3
DIG 3305C	3D Digital Animation Techniques	3
DIG 3313C	2D Digital Animation Techniques	3
DIG 3433	Digital Storytelling	3
DIG 3525C	DAS Design and Production Studio 1	3
DIG 3526C	DAS Design and Production Studio 2	3
DIG 3713	Game Design Practices	3
DIG 3873	Theory of Digital Media Protocols	3
DIG 3878	Applied Digital Media Protocols	3
DIG 4154	Writing for Interactive Media	3
DIG 4306C	Advanced Digital Animation Techniques	3
DIG 4527C	Game Design and Production	3
DIG 4583C	DAS Design and Production Studio 4	3
DIG 4634	Wearable and Mobile App Development	3
DIG 4715C	Game Development	3

Related Digital Arts and Sciences Programs

- Bachelor of Arts in Digital Arts and Sciences (p. 1083)
- Bachelor of Science in Digital Arts and Sciences (p. 1284)

Digital Arts and Sciences | Bachelor of Arts

The interdisciplinary digital arts and sciences (DAS) program crosses college boundaries between arts, communications, and engineering.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts in Digital Arts and Sciences
- **Credits for Degree:** 120
- **Additional Information**
- **Related Digital Arts and Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Arts in Digital Arts and Sciences (BADAS) crosses traditional college boundaries between the arts, communications, and engineering. Students will become versed in contemporary issues in social and interactive media, critical thinking and creative design solutions. The DAS graduate

will gain experience working in collaborative teams on media projects including digital storytelling, animation, and game design including serious and applied games.

Department Requirements

In addition to meeting university-level requirements, students seeking admission to this program must submit a portfolio of original student work, demonstrating competency in digital art and computer programming, as well as a personal statement, to the UF Digital Worlds Institute. The content and quality of these submissions, in addition to previous academic GPA, will be significant factors to determine admission into the program.

The personal statement refers to an original document created by the applicant that details interests, motivations and rationale for seeking program admission. The statement should be one to two pages in length and demonstrate a serious intent to pursue the program and the writing ability appropriate for admission as an upper-division student at a major American university.

Portfolio materials refer to a body of original creative or technical work authored, documented and presented in a contemporary digital format. The portfolio will contain examples of the applicant's best original work including digital art and programming completed before seeking admission to the BADAS program.

The portfolio is due by March 15 of the sophomore year for admission into upper-division coursework. Students may not take 3000/4000-level DIG courses without submission of the portfolio.

Students must complete all critical-tracking courses with minimum grades of C in each course and the minimum critical-tracking GPA must be 2.5. Students who do not meet these requirements will be placed on academic probation and required to prepare a probation contract with an advisor. Students normally are given two terms in which to remove their deficit points; however, students who do not satisfy the conditions of the first term of probation may be dismissed from the program.

Related Digital Arts and Sciences Programs

- Bachelor of Arts in Digital Arts and Sciences | UF Online (p. 1087)
- Bachelor of Science in Digital Arts and Sciences (p. 1284)
- Digital Arts and Sciences minor (p. 1082)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500102&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 7 critical-tracking courses: ARH 2000; DIG 2121; DIG 2632; DIG 3525C; DIG 3526C; DIG 3873; or MAC 1140 with a minimum grade of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA

Semester 2

- Complete 2 additional critical-tracking courses with a minimum grade of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA

Semester 4

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA

Semester 5

- Complete remaining critical-tracking courses with minimum grades of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
DIG 2632	Creating Mobile Games (**Critical Tracking**)	3
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23))	3
MAC 1140	Precalculus Algebra (**Critical Tracking**; State Core Gen Ed Mathematics)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Elective		3
	Credits	15
Semester Two		
ARH 2000	Art Appreciation: American Diversity and Global Arts (**Critical Tracking**; State Core Gen Ed Humanities)	3
DIG 2121	Principles of Digital Visualization (**Critical Tracking**)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Social and Behavioral Sciences		3
Gen Ed Composition		3
	Credits	15
Semester Three		
DIG 3020	Foundations of Digital Culture	3
DIG 3525C	DAS Design and Production Studio 1 (**Critical Tracking**)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Gen Ed Humanities		3
Elective		3
	Credits	15
Semester Four		
DIG 3313C	2D Digital Animation Techniques	3
DIG 3526C	DAS Design and Production Studio 2 (**Critical Tracking**)	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Humanities		3
Gen Ed Mathematics		3
	Credits	15
Semester Five		
DIG 3305C	3D Digital Animation Techniques	3
DIG 3433	Digital Storytelling	3
DIG 3713	Game Design Practices	3
DIG 3873	Theory of Digital Media Protocols (**Critical Tracking**)	3
Elective [1]		3
	Credits	15
Semester Six		
DIG 3097	Entrepreneurship in New Media	3
DIG 3878	Applied Digital Media Protocols	3
DIG 4306C	Advanced Digital Animation Techniques	3
DIG 4715C	Game Development	3
Elective [2]		3
	Credits	15
Semester Seven		
DIG 3691	Blockchain Innovation in Digital Arts and Sciences	3
DIG 4361C	Advanced 2D Digital Animation Techniques	3
DIG 4527C	Game Design and Production	3
DIG 4634	Wearable and Mobile App Development	3

Elective [3]		3
	Credits	15
Semester Eight		
DIG 3XXX	Rotating Topic	3
DIG 3588C	Digital Portfolio	3
DIG 4154	Writing for Interactive Media	3
DIG 4970	Senior Project in DAS	3
Elective [4]		3
	Credits	15
	Total Credits	120

1. Transfer students who have not taken DIG 3020 or an acceptable substitute should take DIG 3020.
2. Transfer students who have not taken DIG 3313C or an acceptable substitute should take DIG 3313C.
3. Transfer students who have not taken DIG 3525C or an acceptable substitute should take DIG 3525C.
4. Transfer students who have not taken DIG 3526C or an acceptable substitute should take DIG 3526C.

Academic Learning Compact

The B.A. in digital arts and sciences crosses college boundaries between communications, engineering and the arts. Students will become versed in contemporary issues in social and interactive media, critical thinking and creative design solutions. The DAS graduate will gain experience working in collaborative teams on media projects, including serious and applied games, live digital performances and virtual worlds.

Before Graduating Students Must

- Pass assessment of performance on a major design experience, according to department grading rubric.
- Pass assessment in one or more core courses or individual assignments targeted to each SLO.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of multimedia, human-computer interaction, graphics and simulation to application domains.
2. Conceptualize, design and develop a digital interface involving animation, sound and immersive environments.

Critical Thinking

3. Successfully solve the problems and engage in the systems thinking necessary to develop contemporary interactive digital media.
4. Think critically about contemporary digital media and culture and analyze attendant digital communications practices.

Communication

5. Communicate and collaborate successfully in a team environment comprised of artists, designers and application developers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
DIG 2020	I				
DIG 3305C		I			
DIG 3433				I	
DIG 3506			I	R	I
DIG 3525C					
DIG 3526C	R	R			R
DIG 4306C		R			
DIG 4527C		R			
DIG 4583C			A		A
DIG 4841				R	R
DIG 4970 Capstone Course	A	A	A	A	A

Assessment Types

- Assignments
- Projects illustrating systems thinking and problem solving
- Review of student work illustrating collaborative interdisciplinary achievement
- Performance in capstone course

Digital Arts and Sciences | Bachelor of Arts

The interdisciplinary digital arts and sciences (DAS) program crosses college boundaries between arts, communications, and engineering.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts in Digital Arts and Sciences
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Digital Arts and Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Arts in Digital Arts and Sciences (BADAS) crosses traditional college boundaries between the arts, communications, and engineering. Students will become versed in contemporary issues in social and interactive media, critical thinking and creative design solutions. The DAS graduate will gain experience working in collaborative teams on media projects including digital storytelling, animation, and game design including serious and applied games.

Department Requirements

In addition to meeting university-level requirements, students seeking admission to this program must submit a portfolio of original student work, demonstrating competency in digital art and computer programming, as well as a personal statement, to the UF Digital Worlds Institute. The content and quality of these submissions, in addition to previous academic GPA, will be significant factors to determine admission into the program.

The personal statement refers to an original document created by the applicant that details interests, motivations and rationale for seeking program admission. The statement should be one to two pages in length and demonstrate a serious intent to pursue the program and the writing ability appropriate for admission as an upper-division student at a major American university.

Portfolio materials refer to a body of original creative or technical work authored, documented and presented in a contemporary digital format. The portfolio will contain examples of the applicant's best original work including digital art and programming completed before seeking admission to the BADAS program.

The portfolio is due by March 15 of the sophomore year for admission into upper-division coursework. Students may not take 3000/4000-level DIG courses without submission of the portfolio.

Students must complete all critical-tracking courses with minimum grades of C in each course and the minimum critical-tracking GPA must be 2.5. Students who do not meet these requirements will be placed on academic probation and required to prepare a probation contract with an advisor. Students normally are given two terms in which to remove their deficit points; however, students who do not satisfy the conditions of the first term of probation may be dismissed from the program.

Related Digital Arts and Sciences Programs

- Bachelor of Arts in Digital Arts and Sciences (p. 1083)
- Bachelor of Science in Digital Arts and Sciences (p. 1284)
- Digital Arts and Sciences minor (p. 1082)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500102&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 7 critical-tracking courses: ARH 2000; DIG 2121; DIG 2632; DIG 3525C; DIG 3526C; DIG 3873; or MAC 1140 with a minimum grade of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA

Semester 2

- Complete 2 additional critical-tracking courses with a minimum grade of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA

Semester 4

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA

Semester 5

- Complete remaining critical-tracking courses with minimum grades of C
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
DIG 2632	Creating Mobile Games (**Critical Tracking**)	3
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23))	3
MAC 1140	Precalculus Algebra (**Critical Tracking**; State Core Gen Ed Mathematics)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Elective		3
	Credits	15
Semester Two		
ARH 2000	Art Appreciation: American Diversity and Global Arts (**Critical Tracking**; State Core Gen Ed Humanities)	3
DIG 2121	Principles of Digital Visualization (**Critical Tracking**)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Social and Behavioral Sciences		3
Gen Ed Composition		3
	Credits	15
Semester Three		
DIG 3020	Foundations of Digital Culture	3
DIG 3525C	DAS Design and Production Studio 1 (**Critical Tracking**)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Gen Ed Humanities		3
Elective		3
	Credits	15

Semester Four		
DIG 3313C	2D Digital Animation Techniques	3
DIG 3526C	DAS Design and Production Studio 2 (**Critical Tracking**)	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Humanities		3
Gen Ed Mathematics		3
	Credits	15
Semester Five		
DIG 3305C	3D Digital Animation Techniques	3
DIG 3433	Digital Storytelling	3
DIG 3713	Game Design Practices	3
DIG 3873	Theory of Digital Media Protocols (**Critical Tracking**)	3
Elective [1]		3
	Credits	15
Semester Six		
DIG 3878	Applied Digital Media Protocols	3
DIG 3097	Entrepreneurship in New Media	3
DIG 4306C	Advanced Digital Animation Techniques	3
DIG 4715C	Game Development	3
Elective [2]		3
	Credits	15
Semester Seven		
DIG 3691	Blockchain Innovation in Digital Arts and Sciences	3
DIG 4361C	Advanced 2D Digital Animation Techniques	3
DIG 4527C	Game Design and Production	3
DIG 4634	Wearable and Mobile App Development	3
Elective [3]		3
	Credits	15
Semester Eight		
DIG 3XXX	Rotating Topic	3
DIG 3588C	Digital Portfolio	3
DIG 4154	Writing for Interactive Media	3
DIG 4970	Senior Project in DAS	3
Elective [4]		3
	Credits	15
	Total Credits	120

1 Transfer students who have not taken DIG 3020 or an acceptable substitute should take DIG 3020.

2 Transfer students who have not taken DIG 3313C or an acceptable substitute should take DIG 3313C.

3 Transfer students who have not taken DIG 3525C or an acceptable substitute should take DIG 3525C.

4 Transfer students who have not taken DIG 3526C or an acceptable substitute should take DIG 3526C.

Academic Learning Compact

The B.A. in digital arts and sciences crosses college boundaries between communications, engineering and the arts. Students will become versed in contemporary issues in social and interactive media, critical thinking and creative design solutions. The DAS graduate will gain experience working in collaborative teams on media projects, including serious and applied games, live digital performances and virtual worlds.

Before Graduating Students Must

- Pass assessment of performance on a major design experience, according to department grading rubric.
- Pass assessment in one or more core courses or individual assignments targeted to each SLO.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of multimedia, human-computer interaction, graphics and simulation to application domains.
2. Conceptualize, design and develop a digital interface involving animation, sound and immersive environments.

Critical Thinking

1. Successfully solve the problems and engage in the systems thinking necessary to develop contemporary interactive digital media.
2. Think critically about contemporary digital media and culture and analyze attendant digital communications practices.

Communication

1. Communicate and collaborate successfully in a team environment comprised of artists, designers and application developers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
DIG 2020	I				
DIG 3305C		I			
DIG 3433				I	
DIG 3506			I	R	I
DIG 3525C					
DIG 3526C	R	R			R
DIG 4306C		R			
DIG 4527C		R			
DIG 4583C			A		A
DIG 4841				R	R
DIG 4970 Capstone Course	A	A	A	A	A

Assessment Types

- Assignments
- Projects illustrating systems thinking and problem solving
- Review of student work illustrating collaborative interdisciplinary achievement
- Performance in capstone course

Fine Arts | Interdisciplinary Studies Minor

The interdisciplinary studies in fine arts minor provides maximum flexibility, enabling students outside of the College of the Arts to explore paths of discovery and creativity within the various fine arts disciplines. The minor consists of an approved curriculum of 15 credits taken in at least two of the college's academic units.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** Email (jhodges@arts.ufl.edu)
- **Additional Information**

Students can apply for the minor through the academic coordinator of the college. Applications should consist of a proposed curriculum for the minor, a rationale explaining how the proposed courses create a cohesive program and what the student hopes to gain through taking the chosen courses.

Graphic Design

Graphic Design is a professional program for careers in graphic design and related fields. The curriculum includes a series of introductory courses in design, drawing, 2D, 3D, and 4D studio courses, and art history.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Fine Arts in Graphic Design
- **Credits for Degree:** 120

- **Additional Information**
- **Related Graphic Design Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The degree program in graphic design prepares students for serious professional work in the field. The curriculum emphasizes concept development and application, work with clients and professional development, including the establishment of a working portfolio.

All students must lease, purchase or otherwise obtain a computer system by the junior year. Specific system requirements are available from the school or the graphic design coordinator.

All coursework required for the major must be completed with minimum grades of C.

Related Graphic Design Programs

- Graphic Design certificate (p. 1093)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500409&track=01) may be used for transfer students.

Semester 1

- Complete ART 1803C for 6 credits or a total of 6 credits of any ART or GRA or PGY course at the 2000 level with minimum grades of C
- 2.0 UF GPA required

Semester 2

- Complete 2 of 5 critical-tracking courses with minimum grades of C: ARH 2050, ARH 2051, ART 2305C, GRA 2111C, GRA 2208C
- 2.50 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.75 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course with a minimum grade of C
- Students must complete a 2-D, a 3-D and a 4-D 2000-level course as part of their 2000-level studio requirements
- 3.0 UF GPA required

Semester 5

- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ART 1803C	Workshop for Art Research and Practice: WARP (**Critical Tracking**)	6
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
Gen Ed Composition		3
Elective		3
	Credits	15

Semester Two		
ARH 2050	Introduction to the Principles and History of Art 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2305C	Perceptual Drawing (**Critical Tracking**)	3
ART 2757C or ART 2701C	Ceramics: 3D Concepts or Sculpture: Shaping Form and Space	3
GRA 2111C	Visual Methods and Processes (**Critical Tracking**)	3
Elective		3
	Credits	15
Semester Three		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities and International)	3
DIG 2131C	Digital Imaging	3
GRA 2208C	Typography 1: Letterform (**Critical Tracking**)	3
PGY 2101C	Visual Literacy: Photography (Gen Ed Humanities)	3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15
Semester Four		
ART 2501C or ART 2401C	Painting: Investigations in Color or Printmaking: Color Theory	3
DIG 2282C	Time-based Media	3
Gen Ed Mathematics; pure math		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Studio elective (ART/PGY prefix at 2000 level)		3
	Credits	15
Semester Five		
GRA 3193C	Design: Visualization and Creativity	3
GRA 3209C	Typography 2: Composition	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Art history elective (ARH prefix at 3000/4000 level)		3
Elective (3000/4000 level)		3
	Credits	15
Semester Six		
ENC 3254	Professional Writing in the Discipline (State Core Gen Ed Composition (p. 23))	3
GRA 3194C	Technologies and Processes	3
GRA 3198C	Image, Form and Meaning	3
GRA 4923C	Design and Professional Practice Studio	3
Art history elective (ARH prefix at 3000/4000 level)		3
	Credits	15
Semester Seven		
GRA 4196C	Design: Ideas and Styles	3
GRA 4197C	Graphic Design: Visual Systems in Design	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
Elective (3000/4000 level)		3
	Credits	15
Semester Eight		
GRA 4186C	Senior Design Studio	3
GRA 4187C	Design Workshop	3
State Core Gen Ed Humanities (p. 23)		3
Elective (3000/4000 level)		3
Elective		3
	Credits	15
	Total Credits	120

Academic Learning Compact

The Bachelor of Fine Arts in graphic design enables students to achieve proficiency in the principles and practices utilized by professional designers and affiliated industries. Through the study of art theory, art history and historic and contemporary art, students gain knowledge of design genres

and systems of thought. Emphasis is on development of the concepts and skills related to graphic design and the development of a personal artistic idiom. Students will learn to use research practices effectively and to discuss the development of their work in speech and in writing.

Before Graduating Students Must

- Pass a particular test, a final project, a term paper and/or a portfolio, as determined by a particular major.
- Pass a senior-level capstone course that includes a portfolio exhibition of the student's work, evaluated by appropriate faculty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Design visual form in response to communication problems.
2. Exhibit principles of visual organization/composition, information hierarchy, symbolic representation, typography, aesthetics and the construction of meaningful images.
3. Exhibit appropriate use tools and technology, including their roles in the creation, reproduction and distribution of visual messages.

Critical Thinking

4. Exhibit the ability to describe and respond to the audiences and contexts which communication solutions must address, including recognition of the physical, cognitive, cultural and social human factors that shape design decisions.

Communication

5. Produce solutions to communication problems, including the skills of problem identification, research and information gathering, analysis, generation of alternative solutions, prototyping and evaluation of outcomes.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
ARH 3XXX or ARH 4XXX			I		
ART 1803C			I		
ART 2701C or ART 2757C			I		
ART 3XXXC or ART 4XXXC			I		
GRA 2111C	I	I	I	I	I
GRA 2208C	I	I	I	I	I
GRA 3193C	R	R	R	R	R
GRA 3194C	R	R	R	R	R
GRA 3198C	R	R	R	R	R
GRA 3209C	R	R	R	R	R
GRA 4186C	R	R	R	R	R
GRA 4187C	R	R	R	R	R
GRA 4196C	R	R	R	R	R
GRA 4197C	R	R	R	R	R
GRA 4953C	A	A	A	A	A

Assessment Types

- Portfolio

Graphic Design Certificate

This certificate meets the needs of students who wish to add a graphic and communication design component to their current degree program in order to better understand and use these processes and practices to create effective graphic communication works.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 15 | Completed with minimum grades of B
- **Related Graphic Design Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

This certificate is available to all undergraduates except those majoring in design and visual communications.

The curriculum guides students toward coursework the graphic design faculty considers essential to gain a better understanding of graphic design thinking, processes, methods, and practices in order to create effective graphic and communication design works. Students who complete this certificate will have a focused skillset sought by many disciplines, industries and professions.

Interested students must meet with the School of Art and Art History undergraduate advisor for more information, course planning, and to apply. Students should obtain provisional approval from the advisor prior to enrolling in certificate coursework. Formal certificate applications should be made after completion of the 2000-level coursework.

- Studio art related majors (art, art education, design and visual communications and visual art studies) have priority access to 2000-level certificate courses. Students must work with the SA+AH advisor to gain access to these courses.
- 12 of the 15 total credits and all 3000-level coursework must be taken at UF.

Students should take certificate courses in the order indicated below, with all 2000-level coursework taken before 3000-level coursework. Exceptions may be made with advisor approval. Please note we generally advise students take no more than one certificate course in any given semester.

Required Courses

Code	Title	Credits
Complete before making formal application to the certificate program [1]		
Select one:		3
ART 2305C	Perceptual Drawing	
2000/3000-level drawing course focusing on sketchbook ideation and/or perception (see advisor for options)		
GRA 2111C	Visual Methods and Processes	3
GRA 2208C	Typography 1: Letterform	3
Complete after approval of formal application to the certificate program [2]		
GRA 3816C	Design Thinking	3
GRA 3138C	Graphic Design Practice	3
Total Credits		15

1 It's recommended these courses be taken before end of the sophomore year.

2 Students should take these courses in their junior and senior years.

Related Graphic Design Programs

- Bachelor of Fine Arts in Graphic Design (p. 1090)

Jazz Studies Minor

The jazz studies minor provides access to commercial music skills that are vital to participating in today's music industry. Courses provide critical musical training in the styles of swing, latin, rock, funk, pop, bebop, etc. They also target a theoretical understanding of jazz harmony, chord symbols, jazz scales and modes, jazz articulations, blues forms, piano voicings, the basics of tune writing, commercial arranging, and techniques for memorizing jazz standards.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 19 | Completed with grades of B
- **Contact:** Email (mcitim@arts.ufl.edu)

Requirements

- Students must pass the Jazz Theory Proficiency Exam with a minimum grade of B. Students who receive a grade of B- or below will be permitted to study suggested materials and re-take the proficiency exam the following semester. Students will be allowed only one attempt per semester to take and pass the exam.
- A passing grade of B is required for all courses in the minor. If the student does not achieve the minimum grade requirement in every course for the minor within two attempts, they will not be eligible to continue the minor.
- Students may take Jazz Band at any time after completing a successful audition.
- Students should contact the undergraduate advisor before enrolling in coursework.

Required Courses

Code	Title	Credits
MUN 1710	Jazz Bands (2 semesters)	2
MUN 2800	World Music Ensemble	1
MUN 3713	Jazz Bands (2 semesters)	2
MUN 3714	Jazz Chamber Music 1 (keyboard lab fee)	1
MUT 1214	Jazz Aural Skills 1	1
MUT 1361	Jazz Fundamentals 1	2
MUT 1362	Jazz Fundamentals 2	2
MUT 2641	Jazz Improvisation (proficiency exam required)	2
MUT 4365	Jazz Arranging 1 (keyboard lab fee)	2
MUT 4366	Jazz Arranging 2 (keyboard lab fee)	2
MUT 4663	Advanced Jazz Musicianship (keyboard lab fee) [1]	2
Total Credits		19

[1] May be repeated for credit. Requires Exit Exam with performance of eight standard tunes from memory to count toward the minor.

Music Education

The Bachelor of Music in music education curriculum (B.Mus.Ed.) prepares students to become musicians and music teachers in private life and in the public schools. It is offered in cooperation with the College of Education and includes work in music history, literature, theory, performance, conducting, ensemble, and music education.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Music in Music Education
- **Specializations:** Choral (p. 1096) | Instrumental (p. 1100)
- **Credits for Degree:** 122 - 125
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Music education programs are available in choral and instrumental. More than one-half of the students in the School of Music are preparing for careers as music teachers in elementary or secondary schools. In addition, undergraduates interested primarily in performance careers often take advantage of the teacher-preparation curriculum, which fulfills the educational requirements for Florida teaching certification in grades K-12, and in most other states. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music (p. 1131)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Academic Learning Compact

The Bachelor of Music in music education prepares students to become musicians and music teachers in a K-12 instructional setting. Through studies in conducting, rehearsal planning, teaching techniques, and theory, applied performance, music literature and history and piano, students will be able to structure and apply music for meaningful and effective music class and ensemble instruction.

Before Graduating Students Must

- Pass the General Knowledge Test and the Music (K-12) Subject Area Test of the Florida Teacher Certification Examination.
- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply pedagogical content knowledge necessary to effectively teach K-12 music classes and ensembles as an entry-level educator.

Critical Thinking

2. Consistently and accurately make instructional decisions using a variety of assessment data.

Communication

3. Communicate, verbally and in writing, regarding music, pedagogy, and other aspects of music learning to diverse educational stakeholders.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MUE 2040	I	I	I
MUE 3311	R	R	
MUE 3330	R	R	
MUE 4940			R
MUE 4140			R
MUE 4940	A	A	A

Assessment Types

- Student-teacher internship evaluation ratings.
- Student-teacher exit survey.

Music Education | Choral

The Bachelor of Music in music education curriculum (B.Mus.Ed.) prepares students to become musicians and music teachers in private life and in the public schools. It is offered in cooperation with the College of Education and includes work in music history, literature, theory, performance, conducting, ensemble, and music education.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Music in Music Education
- **Specializations:** Choral (p. 1096) | Instrumental (p. 1100)
- **Credits for Degree:** 122 - 125
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Music education programs are available in choral and instrumental. More than one-half of the students in the School of Music are preparing for careers as music teachers in elementary or secondary schools. In addition, undergraduates interested primarily in performance careers often take advantage of the teacher-preparation curriculum, which fulfills the educational requirements for Florida teaching certification in grades K-12, and in most other states. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music (p. 1131)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=131312&track=01) may be used for transfer students.

Semester 1

- Complete MUE 2470, MUS 2211, MUS 2241, and MVK 1111 with minimum grades of C
- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete MUT 1001 or (MUT 1111 and MUT 1241L) with minimum grade of C
- Complete 2 credits of MVV 1411 with a minimum grade of C
- 2.5 UF GPA required

Semester 2

- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete MUE 1090, MUE 2430, MUS 2221, MUS 2231, and MVK 1112 with minimum grades of C
- Complete 2 additional credits of MVV 1411 with a minimum grade of C
- 2.5 UF GPA required

Semester 3

- Complete MUE 2040, MUE 2450, MUT 2116, MUT 2246L, and MVK 2221 with minimum grades of C
- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete 2 credits of MVV 2421 with a minimum grade of C
- 2.5 UF GPA required

Semester 4

- Complete MUH 3211 with a minimum grade of C
- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete MUT 2117, MUT 2247L, and MVK 2222 with minimum grades of C
- Complete 2 additional credits of MVV 2421 with a minimum grade of C
- 2000-level Performance Jury
- Comprehensive Musicianship Exam
- 2.5 UF GPA required

Semester 5

- Complete MUE 3311, MUG 4104 and MVV 3431 with minimum grades of C
- 2.5 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
MUE 2470	Percussion Skills (**Critical Tracking**)	1
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 2211	English Diction (**Critical Tracking**)	1
MUS 2241	Italian Diction (**Critical Tracking**)	1
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1):		2-3
MUT 1111	Music Theory 1	
& MUT 1241L	and Aural Skills 1 (**Critical Tracking**)	
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**) [1]	
MVK 1111	Secondary Piano 1 (**Critical Tracking**)	1
MVV 1411	Voice (**Critical Tracking**)	2
State Core Gen Ed Composition (p. 23)		3
	Credits	12-13
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUE 1090	Exploring Music Teaching and Learning (**Critical Tracking**)	1
MUE 2430	Voice Skills (**Critical Tracking**)	1
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 2221	French Diction (**Critical Tracking**)	1
MUS 2231	German Diction (**Critical Tracking**)	1
Select one:		3
MUT 1112 Music Theory 2 and MUT 1242L Aural Skills 2 (**Critical Tracking**)		
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (**Critical Tracking**)	1
MVV 1411	Voice (**Critical Tracking**)	2
Gen Ed Composition		3
	Credits	17
Semester Three		
MGF 1106	Mathematics for Liberal Arts Majors 1 (Gen Ed Mathematics)	3
MUE 2040	Music Teaching as a Profession (**Critical Tracking**)	3
MUE 2450	Woodwind Skills 1 (**Critical Tracking**)	1
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116 Music Theory 3 (**Critical Tracking**)		2
MUT 2246L Aural Skills 3 (**Critical Tracking**)		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**)	1
MVV 2421	Voice (**Critical Tracking**)	2
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
	Credits	17
Semester Four		
Select one:		3
MUH 2501	Introduction to World Musics (Gen Ed Humanities and International)	
MUH 3530	Popular and Traditional Musics of Africa	
MUH 3541	Latin American Music (Gen Ed Humanities and International)	
MUH 3211	Music History Survey 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4 (**Critical Tracking**)		2
MUT 2247L Aural Skills 4 (**Critical Tracking**)		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**)	1
MVV 2421	Voice (**Critical Tracking**)	2

Gen Ed Physical or Biological Sciences		3
	Credits	16
Semester Five		
MUE 2440	String Skills 1	1
MUE 3311	Music in Elementary Schools (**Critical Tracking**)	3
MUG 4104	Conducting 1 (**Critical Tracking**)	2
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MVV 3431	Voice (**Critical Tracking**)	2
PSY 2012	General Psychology (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
Gen Ed Social and Behavioral Sciences and Diversity		3
	Credits	18
Semester Six		
MUE 2680	Music Learning with Technology	2
MUE 3416	Literature and Arranging for School Choirs	3
MUE 3330	Music in Secondary Schools	3
MUG 4202	Choral Conducting and Materials	2
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MVV 3431	Voice	2
MVV 3970	Junior Recital	1
	Credits	17
Semester Seven		
MUE 2460	Brass Skills 1	1
MUE 4421	Teaching Secondary Choral Music	3
TSL 4324	ESOL Strategies for Content Area Teachers	3
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	13
Semester Eight		
MUE 4140	Music Student Teaching Seminar	3
MUE 4940	Student Teaching in Music Education	9
	Credits	12
	Total Credits	122-123

[1] Students who place into MUT 1001 take MUT 1111 and MUT 1241L in the spring, followed by MUT 1112 and MUT 1242L in the summer.

All students are required to pass the Florida Teacher Certification Exam (FTCE) general knowledge test by end of the sophomore year.

For the B.Mus.Ed., students must complete at least 50 major and elective credits at the 3000/4000 levels.

Remaining portions of the FTCE and an online portfolio showing evidence of the Florida Accomplished Practices as prescribed by the Florida Department of Education must be completed prior to student teaching.

Academic Learning Compact

The Bachelor of Music in music education prepares students to become musicians and music teachers in a K-12 instructional setting. Through studies in conducting, rehearsal planning, teaching techniques, and theory, applied performance, music literature and history and piano, students will be able to structure and apply music for meaningful and effective music class and ensemble instruction.

Before Graduating Students Must

- Pass the General Knowledge Test and the Music (K-12) Subject Area Test of the Florida Teacher Certification Examination.
- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply pedagogical content knowledge necessary to effectively teach K-12 music classes and ensembles as an entry-level educator.

Critical Thinking

2. Consistently and accurately make instructional decisions using a variety of assessment data.

Communication

3. Communicate, verbally and in writing, regarding music, pedagogy, and other aspects of music learning to diverse educational stakeholders.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MUE 2040	I	I	I
MUE 3311	R	R	
MUE 3330	R	R	
MUE 4940			R
MUE 4140			R
MUE 4940	A	A	A

Assessment Types

- Student-teacher internship evaluation ratings.
- Student-teacher exit survey.

Music Education | Instrumental

The Bachelor of Music in music education curriculum (B.Mus.Ed.) prepares students to become musicians and music teachers in private life and in the public schools. It is offered in cooperation with the College of Education and includes work in music history, literature, theory, performance, conducting, ensemble, and music education.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Music in Music Education
- **Specializations:** Choral (p. 1096) | Instrumental (p. 1100)
- **Credits for Degree:** 122 - 125
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Music education programs are available in choral and instrumental. More than one-half of the students in the School of Music are preparing for careers as music teachers in elementary or secondary schools. In addition, undergraduates interested primarily in performance careers often take advantage of the teacher-preparation curriculum, which fulfills the educational requirements for Florida teaching certification in grades K-12, and in most other states. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music (p. 1131)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=131312&track=01) may be used for transfer students.

Semester 1

- Complete MUE 2440 and MVK 1111 with minimum grades of C
- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete MUT 1001 or (MUT 1111 and MUT 1241L) with minimum grade of C
- Complete 2 credits of MV_ 141_ Performance Principal with a minimum grade of C
- 2.5 UF GPA required

Semester 2

- Complete MUE 1090, MUE 2430, MUE 2442, and MVK 1112 with minimum grades of C
- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete (MUT 1111 and MUT 1241L) or (MUT 1112 and MUT 1242L) with minimum grade of C
- Complete 2 additional credits of MV_ 141_ Performance Principal with a minimum grade of C
- 2.5 UF GPA required

Semester 3

- Complete MUE 2040, MUE 2450, MUT 2116, MUT 2246L, and MVK 2221 with minimum grades of C
- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete 2 credits of MV_ 242_ Performance Principal with a minimum grade of C
- 2.5 UF GPA required

Semester 4

- Complete MUE 2452, MUE 2680, MUT 2117, MUT 2247L, and MVK 2222 with minimum grades of C
- Complete MUN 1000 with a minimum grade of C
- Complete MUH 3211 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete 2 additional credits of MV_ 242_ Performance Principal with a minimum grade of C
- 2000-level Performance Jury
- Comprehensive Musicianship Exam
- 2.5 UF GPA required

Semester 5

- Complete MUE 3311 and MUG 4104 with minimum grades of C
- Complete 2 credits of MVK 343_ Performance Principal with a minimum grade of C
- 2.5 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
MGF 1106	Mathematics for Liberal Arts Majors 1	3

MUE 2440	String Skills 1 (**Critical Tracking**)	1
MUN large ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1):		2-3
MUT 1111 & MUT 1241L	Music Theory 1 and Aural Skills 1 (**Critical Tracking**)	
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**) [1]	
MVK 1111	Secondary Piano 1 (**Critical Tracking**)	1
MV_ 141_ Performance Principal (**Critical Tracking**)		2
Gen Ed Composition		3
	Credits	13-14
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUE 1090	Exploring Music Teaching and Learning (**Critical Tracking**)	1
MUE 2430	Voice Skills (**Critical Tracking**)	1
MUE 2442	String Skills 2 (**Critical Tracking**)	1
MUN large ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one:		3
MUT 1112 Music Theory 2 and MUT 1242L Aural Skills 2 (**Critical Tracking**)		
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (**Critical Tracking**)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Composition (p. 23)		3
	Credits	16
Semester Three		
MUE 2040	Music Teaching as a Profession (**Critical Tracking**)	3
MUE 2450	Woodwind Skills 1 (**Critical Tracking**)	1
MUN large ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116 Music Theory 3 (**Critical Tracking**)		2
MUT 2246L Aural Skills 3 (**Critical Tracking**)		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Mathematics (p. 23)		3
Gen Ed Physical or Biological Sciences		3
	Credits	17
Semester Four		
MUE 2452	Woodwind Skills 2 (**Critical Tracking**)	1
MUE 2680	Music Learning with Technology (**Critical Tracking**)	2
MUE 4480	Marching Band Techniques [2]	3
MUH 3211	Music History Survey 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
MUN large ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4 (**Critical Tracking**)		2
MUT 2247L Aural Skills 4 (**Critical Tracking**)		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
	Credits	16
Semester Five		
MUE 2460	Brass Skills 1	1
MUE 3311	Music in Elementary Schools (**Critical Tracking**)	3
MUG 4104	Conducting 1 (**Critical Tracking**)	2
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUN large ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal (**Critical Tracking**)	2
PSY 2012	General Psychology (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
TSL 3323	ESOL and Reading for Teachers	3
	Credits	18

Semester Six		
MUE 2460	Brass Skills 1	1
MUE 3330	Music in Secondary Schools	3
MUE 3417	Literature and Arranging for Instrumental Ensembles	3
MUG 4302	Instrumental Conducting and Materials	2
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUN large ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal	2
MV_ 3970	Junior Recital	1
	Credits	16
Semester Seven		
MUE 2470	Percussion Skills	1
MUE 4422	Teaching Instrumental Music	3
Select one:		3
MUH 2501	Introduction to World Musics (Gen Ed Social and Behavioral Sciences and International)	
MUH 3530	Popular and Traditional Musics of Africa	
MUH 3541	Latin American Music (Gen Ed Social and Behavioral Sciences and International)	
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Social and Behavioral Sciences and Diversity		3
	Credits	16
Semester Eight		
MUE 4140	Music Student Teaching Seminar	3
MUE 4940	Student Teaching in Music Education	9
	Credits	12
	Total Credits	124-125

1 Students who place into MUT 1001 take MUT 1111 and MUT 1241L in the spring, followed by MUT 1112 and MUT 1242L.

2 All instruments except for strings; strings should select 3 credits of applied study on a secondary string instrument.

All students are required to pass the Florida Teacher Certification Exam (FTCE) general knowledge test by end of the sophomore year.

For the B.Mus.Ed., students must complete at least 50 major and elective credits at the 3000/4000 levels.

Remaining portions of the FTCE and an online portfolio showing evidence of the Florida Accomplished Practices as prescribed by the Florida Department of Education must be completed prior to student teaching.

Music education majors must take one semester of Marching Band (wind and percussion).

Academic Learning Compact

The Bachelor of Music in music education prepares students to become musicians and music teachers in a K-12 instructional setting. Through studies in conducting, rehearsal planning, teaching techniques, and theory, applied performance, music literature and history and piano, students will be able to structure and apply music for meaningful and effective music class and ensemble instruction.

Before Graduating Students Must

- Pass the General Knowledge Test and the Music (K-12) Subject Area Test of the Florida Teacher Certification Examination.
- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply pedagogical content knowledge necessary to effectively teach K-12 music classes and ensembles as an entry-level educator.

Critical Thinking

2. Consistently and accurately make instructional decisions using a variety of assessment data.

Communication

3. Communicate, verbally and in writing, regarding music, pedagogy, and other aspects of music learning to diverse educational stakeholders.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MUE 2040	I	I	I
MUE 3311	R	R	
MUE 3330	R	R	
MUE 4940			R
MUE 4140			R
MUE 4940	A	A	A

Assessment Types

- Student-teacher internship evaluation ratings.
- Student-teacher exit survey.

Music History | Ethnomusicology Minor

The music history/ethnomusicology minor does not require an audition, but a background in music is recommended. A theory placement exam is required to determine the appropriate level of theory the student should be taking.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 18 | Completed with minimum grades of C
- **Contact:** Email (mcitim@arts.ufl.edu)
- **Related Music Programs**

In addition to the required courses, participation in one or more of the School of Music's ensembles is recommended. Only nine credits below the 3000 level will count toward the minor and at least 12 credits of coursework must be completed at UF.

Students should contact the undergraduate advisor before enrolling in coursework.

Required Courses

Code	Title	Credits
Select one: [1]		6
MUT 1121 & MUT 1122	Theory of Music 1 and Theory of Music 2	
MUT 2126 & MUT 2127	Theory of Music 3 and Theory of Music 4	
MUH 2501 or MUL 2010	Introduction to World Musics Experiencing Music	3
Select 9 credits from MUH/MUL courses (3000/4000 level): [2]		9
MUH 3025	Popular Music in the USA: From Ragtime to Hip-Hop and Beyond	
MUH 3211	Music History Survey 1	
MUH 3212	Music History Survey 2	
MUH 3213	Music History Survey 3	
MUH 3530	Popular and Traditional Musics of Africa	
MUH 3541	Latin American Music	
MUH 4016	History of Jazz	
MUH 4930	Special Topics in Music History	
MUL 3693	The American Musical: Broadway and Beyond	
MUL 4662	History and Literature of Opera	
MUS 4905	Projects and Problems in Music	
Total Credits		18

[1] Depending on placement after taking the theory placement exam.

[2] With approval of Musicology/Ethnomusicology faculty.

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Music in Medicine Certificate

The Center for Arts in Medicine, in conjunction with the School of Music, offers this certificate as an opportunity for students to explore the intersections between music and health and professional opportunities for engaging both disciplines.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 12
- **Contact:** Email (fcarytsas@arts.ufl.edu)
- **Related Arts in Medicine Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The certificate recognizes special competency and achievement related to research and practical application of music in healthcare and health-related settings. Students who complete the requirements for the certificate gain unique life experience and capabilities. This certificate, recognizing these special skills, can serve as a credential for developing post-baccalaureate educational pathways and career options.

Students should apply by their junior year and schedule an initial meeting to discuss requirements.

Required Courses

Code	Title	Credits
HUM 2592	Introduction to the Arts in Medicine in a Global Context	3
IDH 3931	Interdisciplinary Junior Honors	3
MUN 1000/3000	Music ensemble	3
HUM 3940L	Arts in Medicine Practicum 1	2
HUM 4594	Music in Medicine Capstone	1
Total Credits		12

Additional Requirements

- 3.0 average in all courses included in the certificate curriculum
- Demonstrate a minimum intermediate level proficiency on their primary instrument, as demonstrated by completion of or enrollment in a 2000 level studio course and an audition.
- Be a current UF student
- 3.0 average in all courses included in the certificate curriculum within 6 months of graduation.

Related Arts in Medicine Programs

- Visual Arts in Medicine certificate (p. 1073)
- Dance in Medicine certificate (p. 1074)

Music Performance Certificate

This certificate provides performance credentials to music majors or minors in non-performance tracks who have made a significant achievement in repertoire, technique, and artistic presentation.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 26-29
- **Related Music Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

The certificate requires students to take additional private lessons, participate in ensembles and present solo recitals. An audition is required for admission.
More Info (http://www.arts.ufl.edu/music/resources/audition_requirements.asp)

Any changes to the curriculum of the music performance degree automatically pertain to the requirements of the certificate. The certificate is awarded at the discretion of the music faculty to graduating seniors who fulfill the required music performance components of the Bachelor of Music in music performance.

Required Courses

Code	Title	Credits
MUN 1000 Level	Ensemble (1 credit; 4 semesters)	4
MUN 3000 Level	Ensemble (1 credit; 3 semesters)	3
MV_ 141_	Performance Principal (2 credits; 2 semesters)	4
MV_ 242_	Performance Principal (2 credits; 2 semesters)	4
MV_ 343_	Performance Principal (3 credits; 2 semesters)	6
MV_ 3970	Recital	1
MV_ 444_	Performance Principal (3 credits; 1 or 2 semesters)	3-6
MV_ 4971	Recital	1
Total Credits		26-29

Additional Requirements

- Studio lessons, 7 semesters minimum
- Ensemble participation, concurrent with each semester of studio lesson enrollment
- Two solo recitals

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)

Music Performance Minor

The music performance minor, instrumental or voice, assumes the student has had substantial previous study in music. An audition is required to determine placement in a studio and a theory placement exam is required to determine the appropriate level of theory.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 18-19 | Completed with minimum grades of C
- **Contact:** Email (mcitim@arts.ufl.edu)
- **Related Music Programs**

Only 13 credits below the 3000 level can count toward this minor and at least 12 credits of coursework must be completed at UF. Courses numbered 4905 cannot apply toward the minor.

Students should contact the undergraduate advisor before enrolling in coursework.

Required Courses

Code	Title	Credits
Required		
MUL 2010	Experiencing Music	3
MUN XXXX	Ensemble (3 semesters' participation)	3
Select one: [1]		3
MUT 1121	Theory of Music 1	
MUT 1122	Theory of Music 2	
MUT 2126	Theory of Music 3	
MUT 2127	Theory of Music 4	
Applied Music (2000 level and 3000 level; 2 semesters and 1 semester, respectively)		7
Instrument-Specific Requirements		
Select one:		2-3
All Instruments Except Woodwinds		
Select one:		
MUL 3XXX	Music Literature elective	
MUL 4XXX	Music Literature elective	
Woodwind Instruments		
Select one:		
Applied Music Lessons: [2]		
MV_ 3XXX	Applied Music Lessons	
Instrumental Ensembles: [3]		
MUN 3123	Concert Band	
MUN 3133	Symphonic Band	
MUN 3143	Wind Symphony	
MUN 3213	University Orchestra	
Chamber Music: [4]		
MUN 3460		
Music History and Literature: [5]		
MUH 3XXX	Music History and Literature	
MUH 4XXX	Music History and Literature	
MUL 33XX	Music History and Literature	
MUL 43XX	Music History and Literature	
MUL 48XX	Music History and Literature	
Music Theory: [5]		
MUT 3XXX	Music Theory	
MUT 4XXX	Music Theory	
Total Credits		18-19

1. Depending on placement after taking the theory placement exam.
2. Each semester of applied lessons is 3 credits.
3. Each ensemble is 1 credit per semester.
4. Each chamber ensemble is 1 credit per semester.
5. Each course is 3 credits.

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Music Theory Minor

The music theory minor does not require an audition, but a background in music is recommended. A theory placement exam is required to determine the appropriate level of theory.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 21 | Completed with minimum grades of C
- **Contact:** Email (mcitim@arts.ufl.edu)
- **Related Music Programs**

A minimum of nine credits at the 3000 level or above must count toward the minor and at least 12 credits of coursework must be completed at UF. Students interested in composition can also take MUC 1211 and MUC 1212 to add a composition component to the minor.

Students should contact the undergraduate advisor before enrolling in coursework.

Required Courses

Code	Title	Credits
MUT 1121	Theory of Music 1 [1]	3
MUT 1122	Theory of Music 2 [1]	3
MUT 2126	Theory of Music 3 [1]	3
MUT 2127	Theory of Music 4 [1]	3
Select three:		9
MUT 3321	Arranging for Voices and Instruments	
MUT 3611	Form and Analysis 1	
MUT 3612	Form and Analysis 2	
MUT 4401	Counterpoint 1	
MUT 4402	Counterpoint 2	
Other advisor-approved MUT courses		
Total Credits		21

[1] Depending on placement after taking the theory placement exam.

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Performance certificate (p. 1105)

Music | Bachelor of Arts

The B.A. curriculum is for students who want a liberal arts education with an emphasis in music. Students can minor in other subject areas such as English, psychology or history.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Concentrations:** Entrepreneurship (p. 1113) I Event Management (p. 1117) | Music (p. 1110) | Music History and Literature (p. 1121) | Music History and Literature: Ethnomusicology (p. 1124) | Music Theory and Composition (p. 1128)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Programs are available in music, music history and literature, music history and literature with emphasis in ethnomusicology, and music theory or composition. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Foreign Language

Students must take 10 credits of foreign language or show a minimum proficiency in a single language by taking a placement test. If the proficiency is met, it does not reduce the 120 credits required for the degree. Foreign language courses can be taken S-U or for a letter grade, and the minimum grade is a C. Foreign language credit cannot be obtained through CLEP examinations.

All students pursuing the B.A. must consult a department advisor and get approval before attempting the elective portion of this program.

Related Music Programs

- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Academic Learning Compact

The Bachelor of Arts in music provides a liberal arts education with an emphasis in ethnomusicology, music history and literature, music theory and composition, or performance. Studies in music theory, applied performance, music literature, music history and piano, provide knowledge of the structure and expression of music within the historical context of musical genres. Students will also be able to apply their knowledge through singing or performing a musical instrument and they will be able to apply critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury
- Final exams

Music | BA

The B.A. curriculum is for students who want a liberal arts education with an emphasis in music. Students can minor in other subject areas such as English, psychology or history.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Concentrations:** Entrepreneurship (p. 1113) I Event Management (p. 1117) | Music (p. 1110) | Music History and Literature (p. 1121) | Music History and Literature: Ethnomusicology (p. 1124) | Music Theory and Composition (p. 1128)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Programs are available in music, music history and literature, music history and literature with emphasis in ethnomusicology, and music theory or composition. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Foreign Language

Students must take 10 credits of foreign language or show a minimum proficiency in a single language by taking a placement test. If the proficiency is met, it does not reduce the 120 credits required for the degree. Foreign language courses can be taken S-U or for a letter grade, and the minimum grade is a C. Foreign language credit cannot be obtained through CLEP examinations.

All students pursuing the B.A. must consult a department advisor and get approval before attempting the elective portion of this program.

Related Music Programs

- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUT 1111 and MUT 1241L with minimum grades of C
- Complete MVK 1111 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 141_) Performance Principal coursework with minimum grade of C
- Voice emphasis only must take MUS 2211 and MUS 2241
- 2.0 UF GPA required

Semester 2

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUS 1360 and MUT 1112 and MUT 1242L with minimum grades of C
- Complete MVK 1112 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 141_) Performance Principal with minimum grade of C

- Voice emphasis only must take MUS 2221 and MUS 2231
- 2.0 UF GPA required

Semester 3

- Complete MUN 1000 and MUT 2116 and MUT 2246L with minimum grades of C
- Complete MUS 1010 with a grade of S
- Complete MVK 2221 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 242_) Performance Principal with minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete MUN 1000 and MUT 2117 and MUT 2247L with minimum grades of C
- Complete MUS 1010 with a grade of S
- Complete MVK 2222 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 242_) Performance Principal with minimum grade of C
- Comprehensive Musicianship Jury
- 2000-level Performance Jury
- 2.0 UF GPA required

Semester 5

- Complete 3 credits of (MV_ 343_) Performance Principal with a minimum grade of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1):		2-3
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**) [2]	
MVK 1111	Secondary Piano 1 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15-16
Semester Two		
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
Select one:		3
MUT 1112 Music Theory 2 and MUT 1242L Aural Skills 2 (**Critical Tracking**)		
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Composition (p. 23)		3
Gen Ed Mathematics		3
	Credits	16
Semester Three		
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0

MUT 2116 Music Theory 3 (**Critical Tracking**)		2
MUT 2246L Aural Skills 3 (**Critical Tracking**)		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		5
	Credits	15
Semester Four		
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4 (**Critical Tracking**)		2
MUT 2247L Aural Skills 4 (**Critical Tracking**)		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
Foreign language		5
	Credits	15
Semester Five		
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal (**Critical Tracking**)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Electives		6
	Credits	16
Semester Six		
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal	3
MV_ 3970	Junior Recital	1
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	14
Semester Seven		
Gen Ed Biological Sciences		3
State Core Gen Ed Humanities (p. 23)		3
Science laboratory		1
Electives		6
	Credits	13
Semester Eight		
Gen Ed Biological Sciences		3
Electives		12
	Credits	15
	Total Credits	119-120

1 Keyboard emphasis must take MVK 3702.

2 Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

For the B.A. with concentration in music, students must complete at least 35 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Arts in music provides a liberal arts education with an emphasis in ethnomusicology, music history and literature, music theory and composition, or performance. Studies in music theory, applied performance, music literature, music history and piano, provide knowledge of the structure and expression of music within the historical context of musical genres. Students will also be able to apply their knowledge through singing or performing a musical instrument and they will be able to apply critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury
- Final exams

Music | Entrepreneurship

The B.A. curriculum is for students who want a liberal arts education with an emphasis in music. Students can minor in other subject areas such as English, psychology or history.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Concentrations:** Entrepreneurship (p. 1113) I Event Management (p. 1117) | Music (p. 1110) | Music History and Literature (p. 1121) | Music History and Literature: Ethnomusicology (p. 1124) | Music Theory and Composition (p. 1128)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Programs are available in music, music history and literature, music history and literature with emphasis in ethnomusicology, and music theory or composition. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Foreign Language

Students must take 10 credits of foreign language or show a minimum proficiency in a single language by taking a placement test. If the proficiency is met, it does not reduce the 120 credits required for the degree. Foreign language courses can be taken S-U or for a letter grade, and the minimum grade is a C. Foreign language credit cannot be obtained through CLEP examinations.

All students pursuing the B.A. must consult a department advisor and get approval before attempting the elective portion of this program.

Related Music Programs

- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUT 1111 and MUT 1241L with a minimum grade of C
- Complete MVK 1111 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 141_) Performance Principal coursework with minimum grade of C
- Voice emphasis only must take MUS 2211 and MUS 2241
- 2.0 UF GPA required

Semester 2

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUS 1360 and MUT 1112 and MUT 1242L with minimum grades of C
- Complete MVK 1112 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 141_) Performance Principal with minimum grade of C
- Voice emphasis only must take MUS 2221 and MUS 2231
- 2.0 UF GPA required

Semester 3

- Complete MUN 1000 and MUT 2116 and MUT 2246L with minimum grades of C
- Complete MUS 1010 with a grade of S
- Complete MVK 2221 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 242_) Performance Principal with minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete MUN 1000 and MUT 2117 and MUT 2247L with minimum grades of C
- Complete MUS 1010 with a grade of S
- Complete MVK 2222 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 242_) Performance Principal with minimum grade of C
- Comprehensive Musicianship Jury

- 2000-level Performance Jury
- 2.0 UF GPA required

Semester 5

- Complete 3 credits of (MV_ 343_) Performance Principal with a minimum grade of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1):		2-3
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**) [2]	
MVK 1111	Secondary Piano 1 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15-16
Semester Two		
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
Select one:		2-3
MUT 1112	Music Theory 2 (**Critical Tracking**)	
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1242L	Aural Skills 2 (**Critical Tracking**)	1
MVK 1112	Secondary Piano 2 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Composition (p. 23)		3
Gen Ed Mathematics		3
	Credits	16-17
Semester Three		
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116	Music Theory 3 (**Critical Tracking**)	2
MUT 2246L	Aural Skills 3 (**Critical Tracking**)	1
MVK 2221	Secondary Piano 3 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		5
	Credits	15
Semester Four		
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117	Music Theory 4 (**Critical Tracking**)	2
MUT 2247L	Aural Skills 4 (**Critical Tracking**)	1
MVK 2222	Secondary Piano 4 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
Foreign language		5
	Credits	15

Semester Five		
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal (**Critical Tracking**)	3
ENT 3003	Principles of Entrepreneurship	4
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
	Credits	14
Semester Six		
ACG 2021	Introduction to Financial Accounting	4
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal	3
MV_ 3970	Junior Recital	1
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Seven		
ENT 4616 Creativity and Innovation in the Business Environment		2
ENT 4934 Business Plan Laboratory		2
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Biological Sciences		3
Gen Ed Physical Sciences		3
Science laboratory		1
	Credits	14
Semester Eight		
ENT 4905 Individual Work in Entrepreneurship		1
Entrepreneurship courses (3000/4000 level)		8
Gen Ed Biological Sciences		3
Elective		3
	Credits	15
	Total Credits	119-121

1 Keyboard emphasis must take MVK 3702.

2 Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

For the B.A. with concentration in music, students must complete at least 35 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Arts in music provides a liberal arts education with an emphasis in ethnomusicology, music history and literature, music theory and composition, or performance. Studies in music theory, applied performance, music literature, music history and piano, provide knowledge of the structure and expression of music within the historical context of musical genres. Students will also be able to apply their knowledge through singing or performing a musical instrument and they will be able to apply critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury
- Final exams

Music | Event Management

The B.A. curriculum is for students who want a liberal arts education with an emphasis in music. Students can minor in other subject areas such as English, psychology or history.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Concentrations:** Entrepreneurship (p. 1113) I Event Management (p. 1117) | Music (p. 1110) | Music History and Literature (p. 1121) | Music History and Literature: Ethnomusicology (p. 1124) | Music Theory and Composition (p. 1128)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Programs are available in music, music history and literature, music history and literature with emphasis in ethnomusicology, and music theory or composition. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Foreign Language

Students must take 10 credits of foreign language or show a minimum proficiency in a single language by taking a placement test. If the proficiency is met, it does not reduce the 120 credits required for the degree. Foreign language courses can be taken S-U or for a letter grade, and the minimum grade is a C. Foreign language credit cannot be obtained through CLEP examinations.

All students pursuing the B.A. must consult a department advisor and get approval before attempting the elective portion of this program.

Related Music Programs

- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUT 1111 and MUT 1241L with a minimum grade of C
- Complete MVK 1111 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 141_) Performance Principal coursework with minimum grade of C
- Voice emphasis only must take MUS 2211 and MUS 2241
- 2.0 UF GPA required

Semester 2

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUS 1360 and MUT 1112 and MUT 1242L with minimum grades of C
- Complete MVK 1112 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 141_) Performance Principal with minimum grade of C
- Voice emphasis only must take MUS 2221 and MUS 2231
- 2.0 UF GPA required

Semester 3

- Complete MUN 1000 and MUT 2116 and MUT 2246L with minimum grades of C
- Complete MUS 1010 with a grade of S
- Complete MVK 2221 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 242_) Performance Principal with minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete MUN 1000 and MUT 2117 and MUT 2247L with minimum grades of C
- Complete MUS 1010 with a grade of S
- Complete MVK 2222 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 242_) Performance Principal with minimum grade of C
- Comprehensive Musicianship Jury
- 2000-level Performance Jury
- 2.0 UF GPA required

Semester 5

- Complete 3 credits of (MV_ 343_) Performance Principal with a minimum grade of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3

MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1):		3
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**) [2]	
MVK 1111	Secondary Piano 1 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
Gen Ed Composition; Writing Requirement		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	16
Semester Two		
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
Select one:		2-3
MUT 1112	Music Theory 2 (**Critical Tracking**)	
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1242L	Aural Skills 2	1
MVK 1112	Secondary Piano 2 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Composition (p. 23)		3
Gen Ed Mathematics		3
	Credits	16-17
Semester Three		
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116	Music Theory 3 (**Critical Tracking**)	2
MUT 2246L	Aural Skills 3 (**Critical Tracking**)	1
MVK 2221	Secondary Piano 3 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		5
	Credits	15
Semester Four		
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117	Music Theory 4 (**Critical Tracking**)	2
MUT 2247L	Aural Skills 2 (**Critical Tracking**)	1
MVK 2222	Secondary Piano 4 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
Foreign language		5
	Credits	15
Semester Five		
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal (**Critical Tracking**)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
HFT 2750	Event Management	3
LEI 3301	Principles of Travel and Tourism	3
	Credits	16
Semester Six		
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal	3
MV_ 3970	Junior Recital	1
Gen Ed Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	14

Semester Seven		
HFT 4754	Advanced Event Management	3
LEI 3360	Hospitality Management	3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Biological Sciences		3
Science laboratory		1
	Credits	13
Semester Eight		
HFT 3512	Event Promotion	3
HFT 4517	Convention Sales and Service	3
LEI 4540	Management and Supervision of Leisure Facilities and Personnel	3
Gen Ed Biological Sciences		3
Elective		3
	Credits	15
	Total Credits	120

1 Keyboard emphasis must take MVK 3702.

2 Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

For the B.A. with concentration in music, students must complete at least 35 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Arts in music provides a liberal arts education with an emphasis in ethnomusicology, music history and literature, music theory and composition, or performance. Studies in music theory, applied performance, music literature, music history and piano, provide knowledge of the structure and expression of music within the historical context of musical genres. Students will also be able to apply their knowledge through singing or performing a musical instrument and they will be able to apply critical thinking skills when hearing musical sounds.

Before Graduating Students Must

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- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A

2000-Level Performance & Comprehensive Musicianship Juries	A

Assessment Types

- Rubric from the pre-professional jury
- Final exams

Music | Music History and Literature

The B.A. curriculum is for students who want a liberal arts education with an emphasis in music. Students can minor in other subject areas such as English, psychology or history.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Concentrations:** Entrepreneurship (p. 1113) I Event Management (p. 1117) | Music (p. 1110) | Music History and Literature (p. 1121) | Music History and Literature: Ethnomusicology (p. 1124) | Music Theory and Composition (p. 1128)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Programs are available in music, music history and literature, music history and literature with emphasis in ethnomusicology, and music theory or composition. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Foreign Language

Students must take 10 credits of foreign language or show a minimum proficiency in a single language by taking a placement test. If the proficiency is met, it does not reduce the 120 credits required for the degree. Foreign language courses can be taken S-U or for a letter grade, and the minimum grade is a C. Foreign language credit cannot be obtained through CLEP examinations.

All students pursuing the B.A. must consult a department advisor and get approval before attempting the elective portion of this program.

Related Music Programs

- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUT 1111 and MUT 1241L with minimum grades of C
- Complete MVK 1111 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 141_) Performance Principal with minimum grade of C
- 2.0 UF GPA required

Semester 2

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUS 1360 and MUT 1112 and MUT 1242L with minimum grades of C
- Complete MVK 1112 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 141_) Performance Principal with minimum grade of C
- 2.0 UF GPA required

Semester 3

- Complete MUS 1010 with a grade of S
- Complete MUT 2116 and MUT 2246Lwith minimum grades of C
- Complete MVK 2221 with a minimum grade of C (keyboard emphasis students exempt)
- 2.0 UF GPA required

Semester 4

- Complete MUS 1010 with a grade of S
- Complete MUT 2117 and MUT 2247L with minimum grades of C
- Complete MVK 2222 with a minimum grade of C (keyboard emphasis students exempt)
- Comprehensive Musicianship Jury
- 2.0 UF GPA required

Semester 5

- Complete 3 credits of (MV_ 343_) Performance Principal with a minimum grade of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1):		2-3
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills (**Critical Tracking**)		
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**) [2]	
MVK 1111	Secondary Piano 1 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
Gen Ed Composition		3
Gen Ed Social and Behavioral Sciences		3
	Credits	15-16
Semester Two		
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
Select one:		3
MUT 1112 Music Theory 2 and MUT 1242L Aural Skills 2 (**Critical Tracking**)		
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	16

Semester Three		
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116 Music Theory 3 (**Critical Tracking**)		2
MUT 2246L Aural Skills 3 (**Critical Tracking**)		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**; keyboard emphasis exempt)	1
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Mathematics		3
Elective		3
	Credits	16
Semester Four		
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4 (**Critical Tracking**)		2
MUT 2247L Aural Skills 4 (**Critical Tracking**)		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**; keyboard emphasis exempt)	1
Gen Ed Biological Sciences		3
Gen Ed Physical Sciences		3
	Credits	13
Semester Five		
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
Select one MUH or MUL course (3000/4000 level)		3
MUS 1010	Recital Attendance	0
Foreign language		5
Electives		6
	Credits	17
Semester Six		
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUH or MUL course (3000/4000 level)		3
MUS 1010	Recital Attendance	0
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		5
	Credits	14
Semester Seven		
Select one MUH or MUL course (3000/4000 level)		3
Gen Ed Biological Sciences		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Electives		9
	Credits	16
Semester Eight		
MUH or MUL course (3000/4000 level)		3
MUS 4905	Projects and Problems in Music	3
Electives		6
	Credits	12
	Total Credits	119-120

1 Keyboard emphasis must take MVK 3702.

2 Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

For the B.A. with concentration in music history and literature, students must complete at least 39 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Arts in music provides a liberal arts education with an emphasis in ethnomusicology, music history and literature, music theory and composition, or performance. Studies in music theory, applied performance, music literature, music history and piano, provide knowledge of the structure and expression of music within the historical context of musical genres. Students will also be able to apply their knowledge through singing or performing a musical instrument and they will be able to apply critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury
- Final exams

Music | Music History and Literature: Ethnomusicology

The B.A. curriculum is for students who want a liberal arts education with an emphasis in music. Students can minor in other subject areas such as English, psychology or history.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Concentrations:** Entrepreneurship (p. 1113) I Event Management (p. 1117) | Music (p. 1110) | Music History and Literature (p. 1121) | Music History and Literature: Ethnomusicology (p. 1124) | Music Theory and Composition (p. 1128)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Programs are available in music, music history and literature, music history and literature with emphasis in ethnomusicology, and music theory or composition. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Foreign Language

Students must take 10 credits of foreign language or show a minimum proficiency in a single language by taking a placement test. If the proficiency is met, it does not reduce the 120 credits required for the degree. Foreign language courses can be taken S-U or for a letter grade, and the minimum grade is a C. Foreign language credit cannot be obtained through CLEP examinations.

All students pursuing the B.A. must consult a department advisor and get approval before attempting the elective portion of this program.

Related Music Programs

- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUH 2501 and MUT 1111 and MUT 1241L with minimum grades of C
- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MVK 1111 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 241_) Performance Principal with a minimum grade of C
- 2.0 UF GPA required

Semester 2

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUS 1360 and MUT 1112 and MUT 1242L with minimum grades of C
- Complete MVK 1112 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 241_) Performance Principal with minimum grade of C
- 2.0 UF GPA required

Semester 3

- Complete MUH 3530 and MUT 2116 and MUT 2246L with minimum grades of C
- Complete MUS 1010 with a grade of S
- Complete MVK 2221 with a minimum grade of C (keyboard emphasis students exempt)
- 2.0 UF GPA required

Semester 4

- Complete MUT 2117 and MUT 2247L with minimum grades of C
- Complete MVK 2222 with a minimum grade of C (keyboard emphasis students exempt)
- Comprehensive Musicianship Jury
- 2.0 UF GPA required

Semester 5

- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUH 2501	Introduction to World Musics (**Critical Tracking**; Gen Ed Humanities and International)	3
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1):		2-3
MUT 1111Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**) [2]	
MVK 1111	Secondary Piano 1 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
Gen Ed Composition; Writing Requirement		3
	Credits	15-16
Semester Two		
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
Select one:		3
MUT 1112 Music Theory 2 and MUT 1242L Aural Skills 2 (**Critical Tracking**)		
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Composition (p. 23)		3
Gen Ed Mathematics		3
	Credits	16
Semester Three		
MUH 3530	Popular and Traditional Musics of Africa	3
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116 Music Theory 3 (**Critical Tracking**)		2
MUT 2246L Aural Skills 3 (**Critical Tracking**)		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**; keyboard emphasis exempt)	1
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		5
	Credits	15
Semester Four		
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4 (**Critical Tracking**)		2
MUT 2247L Aural Skills 4 (**Critical Tracking**)		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**; keyboard emphasis exempt)	1
State Core Gen Ed Biological or Physical Sciences (p. 23) [3]		3
Foreign language		5
	Credits	15
Semester Five		
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUH 3541	Latin American Music (Gen Ed Social and Behavioral Sciences)	3
MUS 1010	Recital Attendance	0
State Core Gen Ed Mathematics (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Elective		3
	Credits	15
Semester Six		
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUS 1010	Recital Attendance	0

Gen Ed Biological Sciences		3
Gen Ed Physical Sciences		3
Electives		6
	Credits	15
Semester Seven		
MUH or MUL course (3000/4000 level)		3
Gen Ed Biological Sciences		3
State Core Gen Ed Humanities (p. 23)		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Electives		5
	Credits	15
Semester Eight		
MUH or MUL course (3000/4000 level)		3
MUS 4905	Projects and Problems in Music	3
Electives		7
	Credits	13
	Total Credits	119-120

1 Keyboard emphasis must take MVK 3702.

2 Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

3 Bachelor of Arts degrees require 2 courses in physical sciences and 2 courses in biological sciences.

For the B.A. in with concentration in history and literature with emphasis in ethnomusicology, students must complete at least 33 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Arts in music provides a liberal arts education with an emphasis in ethnomusicology, music history and literature, music theory and composition, or performance. Studies in music theory, applied performance, music literature, music history and piano, provide knowledge of the structure and expression of music within the historical context of musical genres. Students will also be able to apply their knowledge through singing or performing a musical instrument and they will be able to apply critical thinking skills when hearing musical sounds.

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Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

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MV_ 242_	R		
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MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	

MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury
- Final exams

Music | Music Theory and Composition

The B.A. curriculum is for students who want a liberal arts education with an emphasis in music. Students can minor in other subject areas such as English, psychology or history.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Concentrations:** Entrepreneurship (p. 1113) I Event Management (p. 1117) | Music (p. 1110) | Music History and Literature (p. 1121) | Music History and Literature: Ethnomusicology (p. 1124) | Music Theory and Composition (p. 1128)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Programs are available in music, music history and literature, music history and literature with emphasis in ethnomusicology, and music theory or composition. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Foreign Language

Students must take 10 credits of foreign language or show a minimum proficiency in a single language by taking a placement test. If the proficiency is met, it does not reduce the 120 credits required for the degree. Foreign language courses can be taken S-U or for a letter grade, and the minimum grade is a C. Foreign language credit cannot be obtained through CLEP examinations.

All students pursuing the B.A. must consult a department advisor and get approval before attempting the elective portion of this program.

Related Music Programs

- Bachelor of Music in Music (p. 1131)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUT 1111 and MUT 1241L with minimum grades of C
- Complete MVK 1111 with a minimum grade of C (keyboard emphasis students exempt)
- Complete MUC 1211 with a minimum grade of C (theory majors should take a one-credit MUT elective)

- Complete 2 credits of (MV_ 141_) Performance Principal with a minimum grade of C
- 2.0 UF GPA required

Semester 2

- Complete MUC 1212 with a minimum grade of C (theory majors should take an additional one-credit MUT elective)
- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUS 1360 and MUT 1112 and MUT 1242L with minimum grades of C
- Complete MVK 1112 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 141_) Performance Principal with minimum grade of C
- 2.0 UF GPA required

Semester 3

- Complete MUC 2101 with a minimum grade of C (theory majors should take an additional one-credit MUT elective)
- Complete MUS 1010 with a grade of S
- Complete MUT 2116 and MUT 2246L with minimum grades of C
- Complete MVK 2221 with a minimum grade of C (keyboard emphasis students exempt)
- 2.0 UF GPA required

Semester 4

- Complete MUC 2102 with a minimum grade of C (theory majors should take an additional one-credit MUT elective)
- Complete MUT 2117 and MUT 2247LA with minimum grades of C
- Complete MVK 2222 with a minimum grade of C (keyboard emphasis students exempt)
- Comprehensive Musicianship Jury
- 2.0 UF GPA required

Semester 5

- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUC 1211	Composition Skills 1 (**Critical Tracking**) [1]	1
MUN Ensemble (**Critical Tracking**; 1000 level) [2]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1):		2-3
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**) [3]	
MVK 1111	Secondary Piano 1 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
Gen Ed Composition; Writing Requirement		3
Gen Ed Mathematics		3
	Credits	16-17
Semester Two		
MUC 1212	Composition Skills 2 (**Critical Tracking**) [1]	1
MUN Ensemble (**Critical Tracking**; 1000 level) [2]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
Select one:		3
MUT 1112 Music Theory 2 and MUT 1242L Aural Skills 2 (**Critical Tracking**)		

MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	17
Semester Three		
MUC 2101	Composition Skills 3 (**Critical Tracking**) [1]	1
MUT 2116 Music Theory 3 (**Critical Tracking**)		2
MUT 2246L Aural Skills 3 (**Critical Tracking**)		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**; keyboard emphasis exempt)	1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
State Core Gen Ed Biological or Physical Sciences (p. 23) [4]		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		5
	Credits	16
Semester Four		
MUC 2102	Composition Skills 4 (**Critical Tracking**) [1]	1
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4 (**Critical Tracking**)		2
MUT 2247L Aural Skills 4 (**Critical Tracking**)		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**; keyboard emphasis exempt)	1
State Core Gen Ed Humanities (p. 23)		3
Foreign language		5
	Credits	16
Semester Five		
MUC or MUT course (3000/4000 level)		3
MUG 4104	Conducting 1	2
Select one:		3
MUH 2501	Introduction to World Musics (Gen Ed Humanities and International)	
MUH 3530	Popular and Traditional Musics of Africa	
MUH 3541	Latin American Music (Gen Ed Humanities and International)	
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUS 1010	Recital Attendance	0
Gen Ed Social and Behavioral Sciences		3
	Credits	14
Semester Six		
MUC or MUT course (3000/4000 level)		3
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUS 1010	Recital Attendance	0
Gen Ed Biological Sciences		3
Electives		5
	Credits	14
Semester Seven		
Select one MUC or MUT course (3000/4000 level)		3
Gen Ed Biological Sciences		3
Science laboratory (Gen Ed Physical or Biological Sciences)		1
Electives		7
	Credits	14
Semester Eight		
MUS 4905	Projects and Problems in Music	3
Gen Ed Physical Sciences		3
Electives		6
	Credits	12
	Total Credits	119-120

1 Theory majors do not take composition skills and should add four credits of MUT electives.

2 Keyboard emphasis must take MVK 3702.

[3] Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

[4] Bachelor of Arts degrees require 2 courses in physical sciences and 2 courses in biological sciences.

For the B.A. with concentration in theory and composition, students must complete at least 35 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Arts in music provides a liberal arts education with an emphasis in ethnomusicology, music history and literature, music theory and composition, or performance. Studies in music theory, applied performance, music literature, music history and piano, provide knowledge of the structure and expression of music within the historical context of musical genres. Students will also be able to apply their knowledge through singing or performing a musical instrument and they will be able to apply critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury
- Final exams

Music | Bachelor of Music

The Bachelor of Music curriculum is intended for students who plan to enter professional music careers, graduate study in music or private studio teaching.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Music

- **Credits for Degree:** 120
- **Specializations:** Music in Combination with an Outside Field (p. 1136) | Music Composition (p. 1133) | Performance: Instrumental (p. 1144) | Performance: Vocal (p. 1148) | Music Theory (p. 1140)
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Music programs are available in music in combination with an outside field, music composition, music theory, music performance: instrumental (brass, keyboard, percussion, strings, winds) and music performance: vocal. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Academic Learning Compact

The Bachelor of Music enables students to enter a professional career in music, to teach music privately and to achieve proficiency in a performance area such as composition, instrumental or voice. With study in theory, music literature, music history, piano and applied instruction, students learn the structure and expression of music and the historical context of musical genres. Through applied study, students develop advanced skills and can apply this knowledge through singing, performing on a musical instrument or composing a musical work and they can apply advanced critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury.
- Final exams.

Music | Music Composition

The Bachelor of Music curriculum is intended for students who plan to enter professional music careers, graduate study in music or private studio teaching.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Music
- **Credits for Degree:** 120
- **Specializations:** Music in Combination with an Outside Field (p. 1136) | Music Composition (p. 1133) | Performance: Instrumental (p. 1144) | Performance: Vocal (p. 1148) | Music Theory (p. 1140)
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Music programs are available in music in combination with an outside field, music composition, music theory, music performance: instrumental (brass, keyboard, percussion, strings, winds) and music performance: vocal. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUC 1211, MUT 1111, and MUT 1241L with minimum grades of C
- Complete MUN 1000 with a minimum grade of C (piano emphasis must take MVK 3702)
- Complete MUS 1010 with a grade of S
- Complete MVK 1111 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 141_) Performance Principal with a minimum grade of C
- Voice emphasis only must complete MUS 2211 and MUS 2241
- 2.0 UF GPA required

Semester 2

- Complete MUC 1212, MUS 1360, MUT 1112, and MUT 1242L with minimum grades of C
- Complete MUN 1000 with a minimum grade of C (piano emphasis must take MVK 3702)
- Complete MUS 1010 with a grade of S
- Complete MVK 1112 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 141_) Performance Principal with minimum grade of C

- Voice emphasis only must complete MUS 2221 and MUS 2231
- 2.0 UF GPA required

Semester 3

- Complete MUC 2101, MUT 2116, MUT 2246L, and MUN 1000 with minimum grades of C
- Complete MVK 2221 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 242_) Performance Principal with a minimum grade of C
- Complete MUS 1010 with a grade of S
- 2.0 UF GPA required

Semester 4

- Complete MUC 2102, MUT 2117, MUT 2247L, and MUN 1000 with minimum grades of C
- Complete MUS 1010 with a grade of S
- Complete MVK 2222 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 242_) Performance Principal with minimum grade of C
- 2000-level Performance Jury
- 2.0 UF GPA required

Semester 5

- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUC 1211	Composition Skills 1 (**Critical Tracking**)	1
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1):		2-3
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**)	
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills (**Critical Tracking**) [2]		
MVK 1111	Secondary Piano 1 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
Gen Ed Composition; Writing Requirement		3
	Credits	13-14
Semester Two		
MUC 1212	Composition Skills 2 (**Critical Tracking**)	1
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
Select one:		3
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1112 Music Theory 2 and MUT 1241L Aural Skills 2 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Composition (p. 23)		3
Gen Ed Mathematics		3
	Credits	17
Semester Three		
MUC 2101	Composition Skills 3 (**Critical Tracking**)	1
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116 Music Theory 3		2

MUT 2246L Aural Skills 3		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	14
Semester Four		
MUC 2102	Composition Skills 4 (**Critical Tracking**)	1
Select one:		3
MUH 2501	Introduction to World Musics (Gen Ed Humanities and International)	
MUH 3530	Popular and Traditional Musics of Africa	
MUH 3541	Latin American Music (Gen Ed Humanities and International)	
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4		2
MUT 2247L Aural Skills 4		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
Gen Ed Social and Behavioral Sciences		3
	Credits	14
Semester Five		
MUC 3231	Composition 1	3
MUC 4313	Introduction to Electroacoustic Music	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MUT 3611	Form and Analysis 1 (odd years only)	3
MUT 4401	Counterpoint 1 (even years only)	3
MV_ 343_	Performance Principal	2
	Credits	15
Semester Six		
MUC 3232	Composition 2	3
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MUT 3612	Form and Analysis 2 (even years only)	3
MUT 4402	Counterpoint 2 (odd years only)	3
MV_ 343_	Performance Principal	2
MV_ 3970	Junior Recital	1
	Credits	16
Semester Seven		
MUC 4241	Composition 3	3
MUG 4104	Conducting 1	2
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUN Ensemble (3000 level)		1
MUT 3321	Arranging for Voices and Instruments	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Eight		
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUN Ensemble (3000 level)		1
MUT 4601	Score Reading	2
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Biological or Physical Sciences		3
Senior composition project		2
Senior composition recital		1
	Credits	15
	Total Credits	119-120

[1] Piano emphasis must take MVK 3702.

[2] Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

For the B.Mus. in music composition, students must complete at least 54 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Music enables students to enter a professional career in music, to teach music privately and to achieve proficiency in a performance area such as composition, instrumental or voice. With study in theory, music literature, music history, piano and applied instruction, students learn the structure and expression of music and the historical context of musical genres. Through applied study, students develop advanced skills and can apply this knowledge through singing, performing on a musical instrument or composing a musical work and they can apply advanced critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury.
- Final exams.

Music | Music in Combination with an Outside Field

The Bachelor of Music curriculum is intended for students who plan to enter professional music careers, graduate study in music or private studio teaching.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Music
- **Credits for Degree:** 120
- **Specializations:** Music in Combination with an Outside Field (p. 1136) | Music Composition (p. 1133) | Performance: Instrumental (p. 1144) | Performance: Vocal (p. 1148) | Music Theory (p. 1140)
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Music programs are available in music in combination with an outside field, music composition, music theory, music performance: instrumental (brass, keyboard, percussion, strings, winds) and music performance: vocal. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUT 1111 and MUT 1241L with minimum grades of C
- Complete MUT 1121 with a minimum grade of C
- Complete MVK 1111 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 141_) Performance Principal with a minimum grade of C
- Voice emphasis only must complete MUS 2211 and MUS 2241
- 2.0 UF GPA required

Semester 2

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis must take MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUS 1360, MUT 1112, and MUT 1242L with minimum grades of C
- Complete MVK 1112 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 141_) Performance Principal with minimum grade of C
- Voice emphasis only must complete MUS 2221 and MUS 2231
- 2.0 UF GPA required

Semester 3

- Complete MUS 1010 with a grade of S
- Complete MUT 2116, MUT 2246L, and MUN 1000 with minimum grades of C
- Complete MVK 2221 with a minimum grade of C (keyboard emphasis students exempt)

- Complete 2 credits of (MV_ 242_) Performance Principal with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete MUS 1010 with a grade of S
- Complete MUT 2117, MUT 2247L, and MUN 1000 with minimum grades of C
- Complete MVK 2222 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 242_) Performance Principal with minimum grade of C
- 2000-level Performance Jury
- 2.0 UF GPA required

Semester 5

- Complete 3 additional credits of (MV_ 343_) Performance Principal with minimum grade of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1-2
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (Placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1): [2]		2-3
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**)	
MVK 1111	Secondary Piano 1 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
Gen Ed Composition; Writing Requirement		3
Gen Ed Mathematics		3
	Credits	15-17
Semester Two		
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1-2
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
Select one:		3
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1112 Music Theory 2 and MUT 1242L Aural Skills 2 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Mathematics (p. 23)		3
Gen Ed Physical or Biological Sciences		3
	Credits	16-17
Semester Three		
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116 Music Theory 3 (**Critical Tracking**)		2
MUT 2246L Aural Skills 3 (**Critical Tracking**)		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23)		3
Course from outside field [2]		3
	Credits	16
Semester Four		
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3

MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4 (**Critical Tracking**)		2
MUT 2247L Aural Skills 4 (**Critical Tracking**)		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
Course from outside field [2]		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Five		
MUG 4104	Conducting 1	2
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal	3
Course from outside field [2]		3
	Credits	12
Semester Six		
Select one:		3
MUH 2501	Introduction to World Musics (Gen Ed Humanities and International)	
MUH 3530	Popular and Traditional Musics of Africa	
MUH 3541	Latin American Music (Gen Ed Humanities and International)	
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal	3
MV_ 3970	Junior Recital	1
Courses outside field [3]		6
	Credits	17
Semester Seven		
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Courses outside field [3]		6
	Credits	12
Semester Eight		
Courses outside field [3]		6
Electives		10
	Credits	16
	Total Credits	120

1 Keyboard emphasis must take MVK 3702.

2 Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

3 Students must take 18 of the 27 credits of outside field courses at the 3000/4000 levels and complete them with minimum grades of C.

For the B.Mus. in combination with outside field, students must complete at least 45 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Music enables students to enter a professional career in music, to teach music privately and to achieve proficiency in a performance area such as composition, instrumental or voice. With study in theory, music literature, music history, piano and applied instruction, students learn the structure and expression of music and the historical context of musical genres. Through applied study, students develop advanced skills and can apply this knowledge through singing, performing on a musical instrument or composing a musical work and they can apply advanced critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury.
- Final exams.

Music | Music Theory

The Bachelor of Music curriculum is intended for students who plan to enter professional music careers, graduate study in music or private studio teaching.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Music
- **Credits for Degree:** 120
- **Specializations:** Music in Combination with an Outside Field (p. 1136) | Music Composition (p. 1133) | Performance: Instrumental (p. 1144) | Performance: Vocal (p. 1148) | Music Theory (p. 1140)
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Music programs are available in music in combination with an outside field, music composition, music theory, music performance: instrumental (brass, keyboard, percussion, strings, winds) and music performance: vocal. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)

- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis students must complete MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUT 1111 and MUT 1241L with minimum grades of C
- Complete MVK 1111 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 141_) Performance Principal with a minimum grade of C
- Voice emphasis only must complete MUS 2211 and MUS 2241
- 2.0 UF GPA required

Semester 2

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis students must complete MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUS 1360, MUT 1112 and MUT 1242L with minimum grades of C
- Complete MVK 1112 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 141_) Performance Principal with minimum grade of C
- Voice emphasis only must complete MUS 2221 and MUS 2231
- 2.0 UF GPA required

Semester 3

- Complete MUC 1211, MUT 2116, MUT 2246L, and MUN 1000 with minimum grades of C
- Complete MUS 1010 with a grade of S
- Complete MVK 2221 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 242_) Performance Principal with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete MUC 1212, MUT 2117, MUT 2247L, and MUN 1000 with minimum grades of C
- Complete MUN 1000 with minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete MVK 2222 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 242_) Performance Principal with minimum grade of C
- 2000-level Performance Jury
- Comprehensive Musicianship Jury
- 2.0 UF GPA required

Semester 5

- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUC 1211	Composition Skills 1 (**Critical Tracking**)	1
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1)		2-3
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**) [2]		
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**)	
MVK 1111	Secondary Piano 1 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
Gen Ed Composition		3
	Credits	13-14
Semester Two		
MUC 1212	Composition Skills 2 (**Critical Tracking**)	1
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
Select one:		3
MUT 1112 Music Theory 2 and MUT 1242L Aural Skills 2 (**Critical Tracking**)		
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (keyboard emphasis exempt)	1
MV_ 141_	Performance Principal (**Critical Tracking**)	2
Gen Ed Mathematics		3
Gen Ed Social and Behavioral Sciences		3
	Credits	17
Semester Three		
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116 Music Theory 3 (**Critical Tracking**)		2
MUT 2246L Aural Skills 3 (**Critical Tracking**)		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	16
Semester Four		
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4 (**Critical Tracking**)		2
MUT 2247L Aural Skills 4 (**Critical Tracking**)		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
Gen Ed Biological Sciences		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	13
Semester Five		
Select one:		3
MUH 2501	Introduction to World Musics (Gen Ed Humanities and International)	
MUH 3530	Popular and Traditional Musics of Africa	
MUH 3541	Latin American Music (Gen Ed Humanities and International)	
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MUT 3611	Form and Analysis 1 (even years only)	3
MUT 4401	Counterpoint 1 (odd years only)	3
MV_ 343_	Performance Principal	3
	Credits	13
Semester Six		
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3
MUN Ensemble (3000 level)		1

MUS 1010	Recital Attendance	0
MUT 3612	Form and Analysis 2 (odd years only)	3
MUT 4402	Counterpoint 2 (even years only)	3
MV_ 343_	Performance Principal	3
MV_ 3970	Junior Recital	1
State Core Gen Ed Humanities (p. 23)		3
	Credits	17
Semester Seven		
MUC 4313	Introduction to Electroacoustic Music	3
MUG 4104	Conducting 1	2
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUT 3321	Arranging for Voices and Instruments	3
Gen Ed Social and Behavioral Sciences		3
Elective		1
	Credits	15
Semester Eight		
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUN Ensemble (3000 level)		1
MUS 4905	Projects and Problems in Music	3
MUT 3322	Scoring for Band and Orchestra	3
MUT 4601	Score Reading	2
Elective		3
	Credits	15
	Total Credits	119-120

1 Piano emphasis must take MVK 3702.

2 Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

For the B.Mus. in music theory, students must complete at least 54 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Music enables students to enter a professional career in music, to teach music privately and to achieve proficiency in a performance area such as composition, instrumental or voice. With study in theory, music literature, music history, piano and applied instruction, students learn the structure and expression of music and the historical context of musical genres. Through applied study, students develop advanced skills and can apply this knowledge through singing, performing on a musical instrument or composing a musical work and they can apply advanced critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		

MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury.
- Final exams.

Music | Performance | Instrumental

The Bachelor of Music curriculum is intended for students who plan to enter professional music careers, graduate study in music or private studio teaching.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Music
- **Credits for Degree:** 120
- **Specializations:** Music in Combination with an Outside Field (p. 1136) | Music Composition (p. 1133) | Performance: Instrumental (p. 1144) | Performance: Vocal (p. 1148) | Music Theory (p. 1140)
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Music programs are available in music in combination with an outside field, music composition, music theory, music performance: instrumental (brass, keyboard, percussion, strings, winds) and music performance: vocal. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Performance: Instrumental

Brass, Keyboard, Percussion, Strings, Winds

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis only students must complete MVK 3702 instead)
- Complete MUS 1010 with a grade of S

- Complete MUT 1111 and MUT 1241L with minimum grades of C
- Complete MVK 1111 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 credits of (MV_ 242_) Performance Principal with a minimum grade of C
- 2.0 UF GPA required

Semester 2

- Complete MUN 1000 with a minimum grade of C (keyboard emphasis only students must complete MVK 3702 instead)
- Complete MUS 1010 with a grade of S
- Complete MUS 1360 and MUT 1112 and MUT 1242L with minimum grades of C
- Complete MVK 1112 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 242_) Performance Principal with minimum grade of C
- 2.0 UF GPA required

Semester 3

- Complete MUS 1010 with a grade of S
- Complete MUT 2116 and MUT 1241L and MUN 1000 with minimum grades of C
- Complete MVK 2221 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 242_) Performance Principal with minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete MUS 1010 with a grade of S
- Complete MUT 2117 and MUT 2247L and MUN 1000 with minimum grades of C
- Complete MVK 2222 with a minimum grade of C (keyboard emphasis students exempt)
- Complete 2 additional credits of (MV_ 242_) Performance Principal with minimum grade of C
- 2000-level Performance Jury
- Comprehensive Musicianship Jury
- 2.0 UF GPA required

Semester 5

- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
Select one (placement test determines if the student starts in Rudiments or Theory 1):		2-3
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**)	
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**) [2]		
MVK 1111	Secondary Piano 1 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
Gen Ed Composition; Writing Requirement		3
Gen Ed Mathematics		3
	Credits	15-16
Semester Two		
MUN Ensemble (**Critical Tracking**; 1000 level) [1]		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
Select one:		3

MUT 1112 Music Theory 2 and MUT 1242L Aural Skills 2 (**Critical Tracking**)		
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
Gen Ed Physical or Biological Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Three		
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116 Music Theory 3 (**Critical Tracking**)		2
MUT 2246L Aural Skills 3 (**Critical Tracking**)		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	16
Semester Four		
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3
MUN Ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4 (**Critical Tracking**)		2
MUT 2247L Aural Skills 4 (**Critical Tracking**)		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**; keyboard emphasis exempt)	1
MV_ 242_	Performance Principal (**Critical Tracking**)	2
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	13
Semester Five		
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MUT 3611	Form and Analysis 1 (even years only)	3
Select one:		3
MUT 4401	Counterpoint 1 (odd years only)	
MUT 4402	Counterpoint 2 (even years only)	
MV_ 343_	Performance Principal	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	16
Semester Six		
Select one:		3
MUH 2501	Introduction to World Musics (Gen Ed Humanities with International)	
MUH 3530	Popular and Traditional Musics of Africa	
MUH 3541	Latin American Music (Gen Ed Humanities with International)	
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUN Ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MV_ 343_	Performance Principal	3
MV_ 3970	Junior Recital	1
Music elective		1
Elective		3
	Credits	15
Semester Seven		
MUG 4104	Conducting 1	2
MUL 444_	Performance Literature Seminar	2
MUN Ensemble (3000 level)		1
MUT 3321	Arranging for Voices and Instruments	3
MV_ 444_	Performance Principal	3
Elective		3
	Credits	14

Semester Eight		
MUN Ensemble (3000 level)		1
MV_ 444_	Performance Principal	3
MV_ 4640	Pedagogy	3
MV_ 4971 Senior Recital		1
Electives		6
	Credits	14
	Total Credits	119-120

1 Keyboard emphasis must take MVK 3702.

2 Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

For the B.Mus. in music performance: instrumental, students must complete at least 50 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Music enables students to enter a professional career in music, to teach music privately and to achieve proficiency in a performance area such as composition, instrumental or voice. With study in theory, music literature, music history, piano and applied instruction, students learn the structure and expression of music and the historical context of musical genres. Through applied study, students develop advanced skills and can apply this knowledge through singing, performing on a musical instrument or composing a musical work and they can apply advanced critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury.
- Final exams.

Music | Performance | Vocal

The Bachelor of Music curriculum is intended for students who plan to enter professional music careers, graduate study in music or private studio teaching.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Music
- **Credits for Degree:** 120
- **Specializations:** Music in Combination with an Outside Field (p. 1136) | Music Composition (p. 1133) | Performance: Instrumental (p. 1144) | Performance: Vocal (p. 1148) | Music Theory (p. 1140)
- **Additional Information**
- **Related Music Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Music programs are available in music in combination with an outside field, music composition, music theory, music performance: instrumental (brass, keyboard, percussion, strings, winds) and music performance: vocal. Programs are accredited by NASM and the Southern Association of Colleges and Schools (SACS).

Related Music Programs

- Bachelor of Arts in Music (p. 1108)
- Bachelor of Music in Music Education (p. 1095)
- Music History/Ethnomusicology minor (p. 1104)
- Music Performance minor (p. 1106)
- Music Theory minor (p. 1107)
- Music Performance certificate (p. 1105)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500901&track=01) may be used for transfer students.

Semester 1

- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete MUS 2211, MUS 2241, MUT 1111, MUT 1241L, and MVK 1111 with minimum grades of C
- Complete 2 credits of MVV 2421 with a minimum grade of C
- 2.0 UF GPA required

Semester 2

- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete MUS 1360, MUS 2221, MUS 2231, MUT 1112, MUT 1242L, and MVK 1112 with minimum grades of C
- Complete 2 additional credits of MVV 2421 with a minimum grade of C
- 2.0 UF GPA required

Semester 3

- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete MUT 2116, MUT 2246L, and MVK 2221 with minimum grades of C

- Complete 2 credits of MVV 2421 with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete MUN 1000 with a minimum grade of C
- Complete MUS 1010 with a grade of S
- Complete MUT 2117, MUT 2247L, and MVK 2222 with minimum grades of C
- Complete 2 additional credits of MVV 2421 with a minimum grade of C
- 2000-level Performance Jury
- Comprehensive Musicianship Jury
- 2.0 UF GPA required

Semester 5

- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MUN choral ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 2211	English Diction (**Critical Tracking**)	1
MUS 2241	Italian Diction (**Critical Tracking**)	1
Select one (placement test determines if the student starts in Rudiments or Theory 1/Aural Skills 1)		2-3
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**) [2]	
MVK 1111	Secondary Piano 1 (**Critical Tracking**)	1
MVV 2421	Voice (**Critical Tracking**)	2
Gen Ed Mathematics		3
	Credits	14-15
Semester Two		
MUN choral ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUS 1360	Introduction to Music Technology (**Critical Tracking**)	3
MUS 2221	French Diction (**Critical Tracking**)	1
MUS 2231	German Diction (**Critical Tracking**)	1
Select one:		3
MUT 1112 Music Theory 2 and MUT 1242L Aural Skills 2 (**Critical Tracking**)		
MUT 1111 Music Theory 1 and MUT 1241L Aural Skills 1 (**Critical Tracking**)		
MVK 1112	Secondary Piano 2 (**Critical Tracking**)	1
MVV 2421	Voice (**Critical Tracking**)	2
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	18
Semester Three		
MUN choral ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2116 Music Theory 3 (**Critical Tracking**)		2
MUT 2246L Aural Skills 3 (**Critical Tracking**)		1
MVK 2221	Secondary Piano 3 (**Critical Tracking**)	1
MVV 2421	Voice (**Critical Tracking**)	2
Gen Ed Composition		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3

Foreign language		5
	Credits	18
Semester Four		
MUH 3211	Music History Survey 1 (Gen Ed Humanities and International)	3
MUN choral ensemble (**Critical Tracking**; 1000 level)		1
MUS 1010	Recital Attendance (**Critical Tracking**)	0
MUT 2117 Music Theory 4 (**Critical Tracking**)		2
MUT 2247L Aural Skills 4 (**Critical Tracking**)		1
MVK 2222	Secondary Piano 4 (**Critical Tracking**)	1
MVV 2421	Voice (**Critical Tracking**)	2
Foreign language		5
	Credits	15
Semester Five		
MUH 3212	Music History Survey 2 (Gen Ed Humanities and International)	3
MUN choral ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MUT 3611	Form and Analysis 1 (even years only)	3
MVK 1411	Piano	2
MVV 3431	Voice	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
	Credits	15
Semester Six		
MUH 3213	Music History Survey 3 (Gen Ed Humanities)	3
MUN choral ensemble (3000 level)		1
MUS 1010	Recital Attendance	0
MVK 1411	Piano	2
MVV 3431	Voice	3
MVV 3970	Junior Recital	1
Gen Ed Biological or Physical Sciences		3
	Credits	13
Semester Seven		
MUG 4104	Conducting 1	2
MUL 4602	Song Literature Seminar	2
MUN choral ensemble (3000 level)		1
MVV 4441	Voice	3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
	Credits	14
Semester Eight		
Select one:		3
MUH 2501	Introduction to World Musics (Gen Ed Humanities and International)	
MUH 3530	Popular and Traditional Musics of Africa	
MUH 3541	Latin American Music (Gen Ed Humanities and International)	
MUN choral ensemble (3000 level)		1
MVV 4441	Voice	3
MVV 4640	Vocal Pedagogy	3
MV_ 4971	Senior Recital	1
Elective		1
	Credits	12
	Total Credits	119-120

1 Keyboard emphasis must take MVK 3702.

2 Students who place into MUT 1001 take MUT1111 Theory 1 and MUT 1241L Aural Skills 1 in the spring, followed by MUT 1112 Theory 2 and MUT 1242L Aural Skills 2 in the summer.

For the B.Mus. in music performance: vocal, students must complete at least 41 major and elective credits at the 3000/4000 levels.

Academic Learning Compact

The Bachelor of Music enables students to enter a professional career in music, to teach music privately and to achieve proficiency in a performance area such as composition, instrumental or voice. With study in theory, music literature, music history, piano and applied instruction, students learn

the structure and expression of music and the historical context of musical genres. Through applied study, students develop advanced skills and can apply this knowledge through singing, performing on a musical instrument or composing a musical work and they can apply advanced critical thinking skills when hearing musical sounds.

Before Graduating Students Must

- Satisfactory faculty evaluation of a student portfolio.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Perform at a pre-professional level on an instrument or voice.

Critical Thinking

2. Utilize theoretical analysis of music.

Communication

3. Write about music within different historical and cultural contexts.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
MV_ 141_	I		
MV_ 242_	R		
MUH 3211			I
MUH 3212			R
MUT 1111		I	
MUT 1112		R	
MUT 2116		R	
MUT 2117		A	
MUH 3213			A
2000-Level Performance & Comprehensive Musicianship Juries	A		

Assessment Types

- Rubric from the pre-professional jury.
- Final exams.

Art Minor

The art minor provides the opportunity to combine creative and artistic practice with other academic pursuits. Students seeking this minor are not necessarily pursuing careers as practicing professional artists; rather, they are looking to enhance their programs of study with an interdisciplinary learning experience that develops their perceptual, creative problem solving and visual communication skills.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 21 | Completed with minimum grades of C

The curriculum guides students toward coursework that the art faculty considers essential to understanding art making in a material and conceptual sense. Students completing the minor in art will graduate from UF with a more versatile and well-rounded skillset sought by many disciplines, industries and professions.

The minor is available to all UF undergraduates, except those majoring in art, art education, graphic design and visual art studies. Interested students must meet with the School of Art and Art History undergraduate advisor to apply.

- Studio art-related majors (art, art education, and design and visual comunications) have priority access to studio classes. Art minors must work with the SA+AH advisor to gain access to studio courses on a space-available basis.
- Independent studies and internships will not fulfill credits for this minor.
- 15 credits of the 21 total and all 3000/4000-level coursework must be taken at UF.
- Up to six credits of 2000-level coursework may be transferred in from another institution or accelerated mechanism (e.g., AP, IB) or may be taken from UF non-art major studio courses. All transfer credits are subject to SA+AH approval.
- Credit taken toward this minor cannot also be applied to any studio certificate program.

Required Courses

Code	Title	Credits
Complete before application to the minor		
Select one 2000-level art history course, for example:		3
ARH 2002	Introduction to Art: the Artistic Experience	
ARH 2050	Introduction to the Principles and History of Art 1	
ARH 2051	Introduction to the Principles and History of Art 2	
ARH 2500	Non-Western Art	
Art studio course (2000 level) [1]		3
Complete after approval to the minor		
Art studio courses (2000 level) [1]		9
Art studio courses (3000/4000 level) [1, 2]		6
Total Credits		21

1 See advisor for access to studio courses.

2 GRA courses at the 3/4000 level cannot be taken by non-graphic design majors.

Theatre

The Bachelor of Arts in theatre is designed for students who want a liberal arts education with an emphasis in theatre. In addition to a broad liberal arts background, the B.A. provides the creative experiences of studio and performance work. Students are expected not only to master critical thinking about performance through courses such as theatre history, playwriting, and dramaturgy, but also to audition for productions or involve themselves in the creation of theatrical experiences on many levels.

The Bachelor of Arts provides broad career opportunities in several fields and an opportunity to minor in other subject areas. Examples of possible minors are English, business, or communications.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Specializations:** General (p. 1153) | Stage Management (p. 1157)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Theatre Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Arts degree program in theatre prepares graduates to pursue additional academic degrees or enter professional theatre, teaching, or allied fields such as communication or public relations. If they choose to pursue advanced degrees, B.A. graduates traditionally enter MA, JD, or PhD programs. Regardless of degree or career expectations, students complete a core of foundation courses in theatre and dance in addition to general education courses required by the College of the Arts, the university, and the state of Florida.

Related Theatre Programs

- Bachelor of Fine Arts in Theatre Performance (p. 1161)
- Bachelor of Fine Arts in Theatre Production (p. 1168)
- Theatre minor (p. 1161)
- Theatre Production minor (p. 1179)

Academic Learning Compact

The Bachelor of Arts in general theatre provides a liberal arts education with an emphasis in theatre that includes creative experiences in studio and performance. Students can combine the degree with a minor in another subject area to enhance their opportunities for graduate work or entry to professional theatre, teaching or allied fields such as communication and public relations.

Before Graduating Students Must

- Satisfactory faculty evaluation of a senior project.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Understands and appreciates the art form and the artistic and the collaborative processes.
2. Understands the structure and content of representative dramatic literature important in history and culture.
3. Understands the creative process and the functions of individual practitioners.
4. Applies the basic skills required in theatre/dance practice.

Critical Thinking

5. Applies valid artistic criteria to drama and theatre.
6. Understands the major trends in the development of theatre arts and dramatic literature through exploration of theatre studies.

Communication

7. Demonstrates effective verbal and written communication in general theatre studies.
8. Demonstrates effective verbal and written proficiency in a foreign language.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
THE 3234				R	R			
THE 4110				A		A		
THE 4111							A	
TPA 2202C	R		R					
TPA 2232C	R		R					
TPP 2110				I				
TPP 3103				R, A				
TPP 3311	A	R						
TPP 3650		A						
TPP 4481		R			A			
Senior Project	A	A	A	A	A	A	A	A

Assessment Types

- Quizzes
- Research paper
- Dramaturgical protocol/casebook
- Senior project

Theatre | General

The Bachelor of Arts in theatre is designed for students who want a liberal arts education with an emphasis in theatre. In addition to a broad liberal arts background, the B.A. provides the creative experiences of studio and performance work. Students are expected not only to master critical thinking about performance through courses such as theatre history, playwriting, and dramaturgy, but also to audition for productions or involve themselves in the creation of theatrical experiences on many levels.

The Bachelor of Arts provides broad career opportunities in several fields and an opportunity to minor in other subject areas. Examples of possible minors are English, business, or communications.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Specializations:** General (p. 1153) | Stage Management (p. 1157)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Theatre Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Arts degree program in theatre prepares graduates to pursue additional academic degrees or enter professional theatre, teaching, or allied fields such as communication or public relations. If they choose to pursue advanced degrees, BA graduates traditionally enter MA, JD, or PhD programs. Regardless of degree or career expectations, students complete a core of foundation courses in theatre and dance in addition to general education courses required by the College of the Arts, the university, and the state of Florida.

A minimum of 120 semester credits is required to complete the B.A. general theatre degree. An outside elective is any course taken outside of the major. Unless an approved minor is included, 18 credits of electives must be chosen from 3000/4000-level courses outside of the School of Theatre and Dance. Transfer students with A.A. degrees must complete additional courses in the basic distribution, which includes general education requirements. Students must earn minimum grades of C in each of these courses and they may not be taken S-U.

Students must take 10 credits of foreign language or show a minimum proficiency in a single foreign language by taking a placement test. If the proficiency is met, it does not reduce the number of credits required for the degree. Foreign language may be taken S-U or for a letter grade, and the minimum grade is C; no credit is given through CLEP examinations.

All students pursuing the B.A. degree must consult the department advisor and get approval before attempting the elective portion of this program.

Related Theatre Programs

- Bachelor of Fine Arts in Theatre Performance (p. 1161)
- Bachelor of Fine Arts in Theatre Production (p. 1168)
- Theatre minor (p. 1161)
- Theatre Production minor (p. 1179)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500501&track=02) may be used for transfer students.

Semester 1

- Complete 2 of 8 critical-tracking courses with minimum grades of C: DAN 2100, THE 2000, TPA 2202C, TPA 2120C, TPA 2232C, TPP 2110, TPP 3103, TPP 3650
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.0 UF GPA required

Semester 5

- Complete TPP 3103 and TPP 3650 with minimum grades of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
THE 2000	Theatre Appreciation (**Critical Tracking**; State Core Gen Ed Humanities with Diversity)	3
TPP 2110	Acting 1-Instrument and Discipline (**Critical Tracking**)	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Mathematics		3
	Credits	15
Semester Two		
TPA 2202C	Stagecraft (**Critical Tracking**)	4
TPP 3103	Acting 2: Analysis and Application (**Critical Tracking**)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Composition (Writing Requirement)		3
	Credits	13
Semester Three		
TPA 2232C	Beginning Costume (**Critical Tracking**)	3
TPP 3650	Script Analysis (**Critical Tracking**)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Foreign language		5
	Credits	14
Semester Four		
TPA 3217	Introduction to Lighting and Sound (**Critical Tracking**)	4
State Core Gen Ed Composition (p. 23)		3
Theatre elective		3
Foreign language		5
	Credits	15
Semester Five		
THE 4110	History of Theatre on Stage 1 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
State Core Gen Ed Mathematics (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Outside electives		6
	Credits	16
Semester Six		
THE 4111	History of Theatre on Stage 2 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
TPP 3311	Directing	3
Outside electives		9
	Credits	16
Semester Seven		
THE 4481 or TPP 4600	Production Dramaturgy or Playwriting Workshop	3
Theatre electives		6

Outside electives		6
	Credits	15
Semester Eight		
THE 3234 or THE 3231	Diversity and Multiculturalism in American Theatre or African American Theatre History and Practice	3
THE 4970	Senior Project (B.A. majors only)	1
Theatre electives		6
Outside electives		6
	Credits	16
	Total Credits	120

For the B.A. in general theatre, students must complete at least 50 credits at the 3000/4000 levels.

Complete 15 credits of theatre courses by end of the junior year and maintain a 2.0 GPA.

Academic Learning Compact

The Bachelor of Arts in general theatre provides a liberal arts education with an emphasis in theatre that includes creative experiences in studio and performance. Students can combine the degree with a minor in another subject area to enhance their opportunities for graduate work or entry to professional theatre, teaching or allied fields such as communication and public relations.

Before Graduating Students Must

- Satisfactory faculty evaluation of a senior project.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Understands and appreciates the art form and the artistic and the collaborative processes.
2. Understands the structure and content of representative dramatic literature important in history and culture.
3. Understands the creative process and the functions of individual practitioners.
4. Applies the basic skills required in theatre/dance practice.

Critical Thinking

1. Applies valid artistic criteria to drama and theatre.
2. Understands the major trends in the development of theatre arts and dramatic literature through exploration of theatre studies.

Communication

1. Demonstrates effective verbal and written communication in general theatre studies.
2. Demonstrates effective verbal and written proficiency in a foreign language.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
THE 3234				R	R			
THE 4110				A		A		
THE 4111							A	
TPA 2202C	R		R					
TPA 2232C	R		R					
TPP 2110				I				
TPP 3103				R, A				
TPP 3311	A	R						
TPP 3650		A						
TPP 4481		R			A			
Senior Project	A	A	A	A	A	A	A	A

Assessment Types

- Quizzes
- Research paper
- Dramaturgical protocol/casebook
- Senior project

Theatre | Stage Management

The Bachelor of Arts in theatre is designed for students who want a liberal arts education with an emphasis in theatre. In addition to a broad liberal arts background, the B.A. provides the creative experiences of studio and performance work. Students are expected not only to master critical thinking about performance through courses such as theatre history, playwriting, and dramaturgy, but also to audition for productions or involve themselves in the creation of theatrical experiences on many levels.

The Bachelor of Arts provides broad career opportunities in several fields and an opportunity to minor in other subject areas. Examples of possible minors are English, business, or communications.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Specializations:** General (p. 1153) | Stage Management (p. 1157)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Theatre Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Arts degree program in theatre prepares graduates to pursue additional academic degrees or enter professional theatre, teaching, or allied fields such as communication or public relations. If they choose to pursue advanced degrees, B.A. graduates traditionally enter MA, JD, or PhD programs. Regardless of degree or career expectations, students complete a core of foundation courses in theatre and dance in addition to general education courses required by the College of the Arts, the university, and the state of Florida.

In addition to a broad liberal arts background, the Bachelor of Arts in theatre, stage management, provides the student with creative and collaborative production experiences.

A minimum of 120 semester credits is required to complete the B.A. general theatre degree. An outside elective is any course taken outside of the major. Unless an approved minor is included, 18 credits of electives must be chosen from 3000/4000-level courses outside of the School of Theatre and Dance. Transfer students with A.A. degrees must complete additional courses in the basic distribution, which includes general education requirements. Students must earn minimum grades of C in each of these courses and they may not be taken S-U.

Students must take 10 credits of foreign language or show a minimum proficiency in a single foreign language by taking a placement test. If the proficiency is met, it does not reduce the number of credits required for the degree. Foreign language may be taken S-U or for a letter grade, and the minimum grade is C; no credit is given through CLEP examinations.

All students pursuing the B.A. degree must consult the department advisor and get approval before attempting the elective portion of this program.

Related Theatre Programs

- Bachelor of Fine Arts in Theatre Performance (p. 1161)
- Bachelor of Fine Arts in Theatre Production (p. 1168)
- Theatre minor (p. 1161)
- Theatre Production minor (p. 1179)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500501&track=02) may be used for transfer students.

Semester 1

- Complete 2 of 10 critical-tracking courses with minimum grades of C: THE 2000 and TPP 2110
- 2.0 UF GPA required

Semester 2

- Complete DAN 2100 and TPA 2202C with minimum grades of C
- 2.0 UF GPA required

Semester 3

- Complete TPA 2232C, TPP 3650, and TPA 4601 with minimum grades of C
- 2.0 UF GPA required

Semester 4

- Complete TPA 3217 and TPP 3311 with minimum grades of C
- 2.0 UF GPA required

Semester 5

- Complete THE 4110 with a minimum grade of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
THE 2000	Theatre Appreciation (**Critical Tracking**; State Core Gen Ed Humanities with Diversity)	3
TPP 2110	Acting 1-Instrument and Discipline (**Critical Tracking**)	3
Gen Ed Composition (Writing Requirement)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15
Semester Two		
DAN 2100	Dance Appreciation for the Twenty-first Century (**Critical Tracking**; Gen Ed Humanities and International)	3
TPA 2202C	Stagecraft (**Critical Tracking**)	4
State Core Gen Ed Composition (p. 23)		3
Gen Ed Mathematics		3
	Credits	13
Semester Three		
PSY 2012	General Psychology (State Core Gen Ed Social and Behavioral Sciences (p. 23))	3
TPA 2232C	Beginning Costume (**Critical Tracking**)	3
TPP 3650	Script Analysis (**Critical Tracking**)	3
TPA 4601	Stage and Theatre Management (**Critical Tracking**)	3
THE 4950	Production and Performance	1
	Credits	13
Semester Four		
TPA 3217	Introduction to Lighting and Sound (**Critical Tracking**)	4
TPP 3311	Directing (**Critical Tracking**)	3
TPA 4931	Advanced Stage Management Seminar	1
TPA 4946	Production Practicum (Stage Management)	1-3
Gen Ed Biological and Physical Sciences		3
Upper division elective		3
	Credits	15-17

Semester Five		
THE 4110	History of Theatre on Stage 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
TPA 4931	Advanced Stage Management Seminar	1
TPA 4946	Production Practicum (Stage Management)	1-3
Foreign language		5
Upper division elective		3
	Credits	13-15
Semester Six		
THE 4111	History of Theatre on Stage 2 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
Gen Ed Biological and Physical Sciences		3
Theatre or dance elective		3
Foreign language		5
	Credits	15
Summer After Semester Six		
THE 4945	Summer Repertory Theatre	3
Upper division electives		6
	Credits	9
Semester Seven		
SYG 2000	Principles of Sociology (Gen Ed Social and Behavioral Sciences)	3
TPA 4931	Advanced Stage Management Seminar	1
TPA 4946	Production Practicum (Stage Management Senior Project)	3
Theatre or dance elective		3
Upper division elective		3
	Credits	13
Semester Eight		
THE 3234 or THE 3231	Diversity and Multiculturalism in American Theatre (Gen Ed Humanities and Diversity) or African American Theatre History and Practice	3
THE 4970	Senior Project (B.A. majors only)	1
Theatre electives		6
Upper division elective		3
	Credits	13
	Total Credits	119-123

Students must complete at least 50 credits at the 3000/4000 levels.
An upper division elective is any 3000/4000 level course. At least 18 hours of upper division electives must be from courses outside of the SoTD. Lower division courses (including suggested 1000/2000 electives listed below) can be accepted if they are part of an approved minor.

Students must maintain a 2.0 GPA.

Students should enroll in TPA 4931 Advanced Stage Management Seminar the same semesters they are enrolled in TPA 4946 Production Practicum.

Approved Electives

Theatre

Code	Title	Credits
THE 4481	Production Dramaturgy	3
THE 4905	Individual Study	1-4
TPA 2120C	Beginning Makeup	1
TPA 3208	Drawing/Drafting for the Stage	3
TPA 4020	Lighting Design	3
TPA 4049	Costume Design	3
TPA 4066	Scene Design	3
TPA 4940	Internship in Theatre Design or Production	1-9
TPP 4531	Stage Combat: Unarmed and Light Weaponry	3

Dance

Code	Title	Credits
DAA 1000	Fundamentals of Dance Technique	3
DAA 2104	Basic Modern Dance	2
DAA 2204	Basic Ballet	2

DAA 2331	West African Dance and Music	2
DAA 2504	Basic Jazz	2
DAA 2610	Dance Composition 1	2
DAA 3548	Theatre Dance Styles	2-3

Other Suggested Electives

Code	Title	Credits
MUT 1001	Introduction to Music Theory Rudiments	2
HFT 2750	Event Management	3
MAN 3025	Principles of Management	4

Academic Learning Compact

The Bachelor of Arts in general theatre provides a liberal arts education with an emphasis in theatre that includes creative experiences in studio and performance. Students can combine the degree with a minor in another subject area to enhance their opportunities for graduate work or entry to professional theatre, teaching or allied fields such as communication and public relations.

Before Graduating Students Must

- Satisfactory faculty evaluation of a senior project.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Understands and appreciates the art form and the artistic and the collaborative processes.
2. Understands the structure and content of representative dramatic literature important in history and culture.
3. Understands the creative process and the functions of individual practitioners.
4. Applies the basic skills required in theatre/dance practice.

Critical Thinking

1. Applies valid artistic criteria to drama and theatre.
2. Understands the major trends in the development of theatre arts and dramatic literature through exploration of theatre studies.

Communication

1. Demonstrates effective verbal and written communication in general theatre studies.
2. Demonstrates effective verbal and written proficiency in a foreign language.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8
THE 3234				R	R			
THE 4110				A		A		
THE 4111							A	
TPA 2202C	R		R					
TPA 2232C	R		R					
TPP 2110				I				
TPP 3103				R, A				
TPP 3311	A	R						
TPP 3650		A						
TPP 4481		R			A			
Senior Project	A	A	A	A	A	A	A	A

Assessment Types

- Quizzes
- Research paper

- Dramaturgical protocol/casebook
- Senior project

Theatre Minor

The School of Theatre and Dance offers a minor in general theatre or theatre production.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 17 | Completed with minimum grades of C and no S-U
- **Related Theatre Programs**

All students who plan to minor in theatre must consult the School of Theatre and Dance's undergraduate advisor to select a program of study.

Of the required credits, eight credits must be at the 3000 level or above and 11 credits must be completed at UF.

Required Courses

Code	Title	Credits
THE 2000	Theatre Appreciation	3
THE 4950	Production and Performance	1
THE 4950	Production and Performance	1
TPP 2100	Acting for Non-Majors	3
Select two:		6
DAN 2100	Dance Appreciation for the Twenty-first Century	
THE 3234	Diversity and Multiculturalism in American Theatre	
THE 4930	Special Topics in Theatre (African-American Theatre)	
TPP 3124	Beginning Improvisation (Strike Force)	
Theatre or dance elective (consult the department advisor)		3
Total Credits		17

Related Theatre Programs

- Bachelor of Arts in Theatre (p. 1152)
- Bachelor of Fine Arts in Theatre Performance (p. 1161)

Theatre Performance

The B.F.A. in theatre performance is also offered at the New World School of the Arts in Miami.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Acting (p. 1162) | Musical Theatre (p. 1165)
- **Credits for Degree:** 124
- **Contact:** Email (kaustin@ufl.edu)
- **Additional Information**
- **Related Theatre Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Placement in the BFA Theatre program is determined by audition or portfolio interview. There are two specialization areas in the program: Acting, and Musical Theatre. Students enrolled in Theatre Performance: acting or musical theatre will proceed through studio coursework by demonstrated proficiency.

Transfer students entering the musical theatre program may be required to take a placement exam by the School of Music for placement in music courses. If a student has earned college credit with a minimum grade of C for music courses taken at another SUS institution with course prefixes and the last three digits matching a UF music course, this is usually granted as transfer credit when evaluated by the music faculty.

All theatre majors should consult the academic advisor as early as possible.

Related Theatre Programs

- Bachelor of Arts in Theatre (p. 1152)
- Bachelor of Fine Arts in Theatre Production (p. 1168)
- Theatre minor (p. 1161)
- Theatre Production minor (p. 1179)

Theatre Performance | Acting

The B.F.A. in theatre performance is also offered at the New World School of the Arts in Miami.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Acting (p. 1162) | Musical Theatre (p. 1165)
- **Credits for Degree:** 124
- **Contact:** Email (kaustin@ufl.edu)
- **Additional Information**
- **Related Theatre Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Placement in the BFA Theatre program is determined by audition or portfolio interview. There are two specialization areas in the program: Acting, and Musical Theatre. Students enrolled in Theatre Performance: acting or musical theatre will proceed through studio coursework by demonstrated proficiency.

Transfer students entering the musical theatre program may be required to take a placement exam by the School of Music for placement in music courses. If a student has earned college credit with a minimum grade of C for music courses taken at another SUS institution with course prefixes and the last three digits matching a UF music course, this is usually granted as transfer credit when evaluated by the music faculty.

All theatre majors should consult the academic advisor as early as possible.

Related Theatre Programs

- Bachelor of Arts in Theatre (p. 1152)
- Bachelor of Fine Arts in Theatre Production (p. 1168)
- Theatre minor (p. 1161)
- Theatre Production minor (p. 1179)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500501&track=02) may be used for transfer students.

Semester 1

- Complete 2 of 10 critical-tracking courses with minimum grade of C: THE 2000, TPA 2202C, TPA 2232C, TPP 2110, TPP 2282, TPP 3103, TPP 3113, TPP 3283, TPP 3650, TPP 4114
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking courses with a minimum grade of C
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
DAA 1000	Fundamentals of Dance Technique (Gen Ed Humanities)	3
THE 2000	Theatre Appreciation (**Critical Tracking**; State Core Gen Ed Humanities and Diversity)	3
TPA 2202C	Stagecraft (**Critical Tracking**)	4
TPP 2110	Acting 1-Instrument and Discipline (**Critical Tracking**)	3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	16
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
TPA 2120C	Beginning Makeup	1
TPA 2232C	Beginning Costume (**Critical Tracking**)	3
TPP 3103	Acting 2: Analysis and Application (**Critical Tracking**)	3
Gen Ed Composition (Writing Requirement)		3
	Credits	13
Semester Three		
TPA 3217	Introduction to Lighting and Sound	4
TPP 2282	Movement Training for the Actor 1 (**Critical Tracking**)	3
TPP 3113	Acting 3 (**Critical Tracking**)	3
TPP 3650	Script Analysis (**Critical Tracking**)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
	Credits	16
Semester Four		
THE 4950	Production and Performance	1
TPP 3283	Movement Training for the Actor 2 (**Critical Tracking**)	3
TPP 4114	Acting 4 (**Critical Tracking**)	3
Gen Ed Mathematics		3
Gen Ed Physical or Behavioral Sciences		3
Theatre elective		3
	Credits	16
Semester Five		
THE 3234 or THE 3231	Diversity and Multiculturalism in American Theatre (Gen Ed Humanities) or African American Theatre History and Practice	3
THE 4950	Production and Performance	1
TPP 4140	Acting: Shakespeare and Period Styles	3
TPP 4287	Voice, Speech and Body Training for the Actor 1	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	13
Semester Six		
TPP 4144	Acting Style: 18th Century to Post Modernism	3

TPP 4288	Voice, Speech, and Body Training for the Actor 2	3
State Core Gen Ed Composition (p. 23)		3
Gen Ed Social and Behavioral Sciences		3
Theatre elective		3
	Credits	15
Summer After Semester Six		
THE 4945	Summer Repertory Theatre	6
	Credits	6
Semester Seven		
THE 4110	History of Theatre on Stage 1 (Gen Ed Humanities)	3
TPP 3251	Fundamentals of Music Theatre Acting	3
TPP 4221	Acting: Audition Workshop and Synthesis	3
Theatre electives		6
	Credits	15
Semester Eight		
THE 4111	History of Theatre on Stage 2 (Gen Ed Humanities)	3
THE 4959	Senior Project	2
Theatre electives		9
	Credits	14
	Total Credits	124

For a B.F.A. in acting, students must complete at least 53 credits at the 3000/4000 levels.

Complete 15 credits of theatre courses by end of the junior year and maintain a 2.0 GPA.

Theatre Electives

Code	Title	Credits
THE 4481	Production Dramaturgy	3
THE 4930	Special Topics in Theatre	1-3
TPA 4601	Stage and Theatre Management	3
TPP 2260	Acting for the Camera	3
TPP 3124	Beginning Improvisation	1-3
TPP 3311	Directing	3
TPP 4531	Stage Combat: Unarmed and Light Weaponry	3
TPP 4600	Playwriting Workshop	3

Academic Learning Compact

The Bachelor of Fine Arts in acting develops the highest possible level of performance as an actor. Students develop advanced theatrical movement and vocal skills, including stage combat, voice, makeup, movement and period styles. They learn to perform through workshop and mainstage productions in formal and informal settings. Students also develop a repertory and techniques for auditions.

Before Graduating Students Must

- Satisfactory presentation and faculty evaluation of a jury and a senior project.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and describe primary examples of theatre history, literature, dramatic structure and theory.
2. Explain specific acting techniques.

Critical Thinking

3. Analyze and apply effective acting technique strategies.
4. Create strategic audition material packages for professional auditions.

Communication

5. Construct a personal process for character creation and actualization.
6. Explain complex facets of theatre performance and production.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
THE 2000	I					I
THE 4110 and THE 4111	A					A
THE 4959			A		A	
TPP 2110 and TPP 3103		I	I	I	I	
TPP 2282 and TPP 3283					I	
TPP 3113 and TPP 4114		R	R	R	R	
TPP 3650	R					R
TPP 4110		R	R		R	
TPP 4140 and TPP 4144		R	R		R	
TPP 4287 and TPP 4288					I	
BFA Auditions and Juries		A		A		

Assessment Types

- Exams
- Papers/projects
- Presentations

Theatre Performance | Musical Theatre

The B.F.A. in theatre performance is also offered at the New World School of the Arts in Miami.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Acting (p. 1162) | Musical Theatre (p. 1165)
- **Credits for Degree:** 124
- **Contact:** Email (kaustin@ufl.edu)
- **Additional Information**
- **Related Theatre Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Placement in the BFA Theatre program is determined by audition or portfolio interview. There are two specialization areas in the program: Acting, and Musical Theatre. Students enrolled in Theatre Performance: acting or musical theatre will proceed through studio coursework by demonstrated proficiency.

Transfer students entering the musical theatre program may be required to take a placement exam by the School of Music for placement in music courses. If a student has earned college credit with a minimum grade of C for music courses taken at another SUS institution with course prefixes and the last three digits matching a UF music course, this is usually granted as transfer credit when evaluated by the music faculty.

All theatre majors should consult the academic advisor as early as possible.

Related Theatre Programs

- Bachelor of Arts in Theatre (p. 1152)
- Bachelor of Fine Arts in Theatre Production (p. 1168)
- Theatre minor (p. 1161)
- Theatre Production minor (p. 1179)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500501&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 10 critical-tracking courses with minimum grades of C: THE 2000, TPA 2202C, TPP 2110, TPP 2250, TPP 3103, TPP 3113, TPP 4114, MUT 1001, MVV 1411 twice
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
DAA 1000	Fundamentals of Dance Technique (Gen Ed Humanities)	3
THE 2000	Theatre Appreciation (**Critical Tracking**; State Core Gen Ed Humanities and Diversity)	3
TPP 2110	Acting 1-Instrument and Discipline (**Critical Tracking**)	3
Gen Ed Composition (Writing Requirement)		3
Gen Ed Mathematics		3
	Credits	15
Semester Two		
DAA 2204	Basic Ballet	2
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MVV 1411	Voice (**Critical Tracking**; minimum of 12 credits of voice required)	2
TPP 2250	Song and Dance for the Theatre	1
TPP 3103	Acting 2: Analysis and Application (**Critical Tracking**)	3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	14

Semester Three		
DAA-approved dance course (based on technical level)		2
MUT 1001	Introduction to Music Theory Rudiments (**Critical Tracking**)	2
TPA 2120C	Beginning Makeup	1
TPA 2232C	Beginning Costume	3
TPP 2250	Song and Dance for the Theatre (**Critical Tracking**)	1
TPP 2282	Movement Training for the Actor 1	3
TPP 3113	Acting 3 (**Critical Tracking**)	3
	Credits	15
Semester Four		
MVV 1411	Voice (**Critical Tracking**; minimum of 12 credits of voice required)	2
TPA 2202C	Stagecraft (**Critical Tracking**)	4
TPP 2250	Song and Dance for the Theatre	1
TPP 4114	Acting 4 (**Critical Tracking**)	3
DAA-approved dance course (based on technical level)		2
Gen Ed Social and Behavioral Sciences		3
	Credits	15
Semester Five		
MUS 2211	English Diction	1
MUT 1121	Theory of Music 1	3
MVK 1111	Secondary Piano 1	1
MVV 1411	Voice (minimum of 12 credits of voice required)	2
TPP 2250	Song and Dance for the Theatre	1
TPP 3251	Fundamentals of Music Theatre Acting	3
TPP or MUN Ensemble		1
State Core Gen Ed Composition (p. 23)		3
DAA-approved dance course (based on technical level)		2
	Credits	17
Semester Six		
MVK 1112	Secondary Piano 2	1
MVV 1411	Voice (minimum of 12 credits of voice required)	2
TPP 2250	Song and Dance for the Theatre	1
TPP 3252	Music Theatre Acting Styles	3
DAA-approved dance course (based on technical level)		2
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Electives		4
	Credits	16
Semester Seven		
MVV 1411	Voice (minimum of 12 credits of voice required)	2
THE 4110	History of Theatre on Stage 1 (Gen Ed Humanities)	3
THE 4950	Production and Performance	1
TPP 3253	Advanced Studies in Music Theatre Acting	3
Gen Ed Physical or Behavioral Sciences		3
Electives		5
	Credits	17
Semester Eight		
MVV 1411	Voice (minimum of 12 credits of voice required)	2
THE 4111	History of Theatre on Stage 2 (Gen Ed Humanities)	3
THE 4260 or THE 4285	Historic Costume for the Stage or History of Decor and Architecture for the Stage	3
THE 4950	Production and Performance	1
THE 4959	Senior Project	2
TPP 2250	Song and Dance for the Theatre	1
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
	Credits	15
	Total Credits	124

Academic Learning Compact

The School of Theatre and Dance and the School of Music prepare Bachelor of Fine Arts graduates as performers and pioneers of musical theatre. The BFA fuses acting, singing and dancing into a single mode of expression to compete in a challenging job market. A commitment to diversity and risk-taking provides an environment that challenges, inspires and stimulates individual creativity in musical theatre artists for the 21st century.

Before Graduating Students Must

- Satisfactory presentation and faculty evaluation of a jury and a senior project.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Analyze and interpret primary examples of musical theatre styles and history.
2. Prepare and create musical theatre performances.
3. Analyze and apply effective musical performance strategies.

Critical Thinking

4. Create strategic song portfolios representative of varied styles for professional auditions.

Communication

5. Construct a personal process of character creation and actualization through libretto and musical score analysis.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
THE 4110				I	
THE 4959				R	A
TPA 4930				R	
TPP 2110		I			
TPP 2250		R			
TPP 3103		I			
TPP 3113	R	R		R	
TPP 3251	I	I			
TPP 3252		R	R		
TPP 3253		R	R		
TPP 4114	R	R		R	
Spring Juries	A	A	A	A	

Assessment Types

- Senior project
- Spring recitals
- Juries

Theatre Production

The B.F.A. in theatre performance is also offered at the New World School of the Arts in Miami.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Costume Design (p. 1170) | Lighting Design (p. 1173) | Scene Design (p. 1176)
- **Credits for Degree:** 124
- **Contact:** Email (kaustin@ufl.edu)

- **Additional Information**
- **Related Theatre Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The BFA Theatre Production program has 3 specialization areas: costume design, lighting design, and scene design.

Students enrolled in Theatre Production will complete coursework in all three areas. Selected independent studies, advanced electives, and production assignments in THE 4950 focus on the specialization.

Today's theatre design and production depends heavily on complex electronic mechanical systems used in professional theatres, film, and television. Students must pass a portfolio review for admission to any production program. For more information consult the department handbook or the academic advisor.

All theatre majors should consult the academic advisor as early as possible.

Related Theatre Programs

- Bachelor of Arts in Theatre (p. 1152)
- Bachelor of Fine Arts in Theatre Performance (p. 1161)
- Theatre minor (p. 1161)
- Theatre Production minor (p. 1179)

Academic Learning Compact

The Bachelor of Fine Arts in theatre production meets the diverse aesthetic and technological demands of contemporary society. Today's theatre design and production depend heavily on the complex electronic and mechanical systems used in professional theatres. This curriculum provides academic instructing and professional training in costume design and technology, scenic design and lighting design. The program provides a laboratory environment where students can apply the skills learned in classroom exercises and theories.

Before Graduating Students Must

- Present a senior project and review your portfolio with representatives from the appropriate faculty. You must pass the senior project and portfolio review with a satisfactory rating.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply principles of two and three-dimensional design aesthetics to costume, lighting or scene design for live performance as a method of bringing text, choreographic work or public exposition to the stage.

Critical Thinking

2. Organize, develop and participate in the art, craft and process of moving the script onto the stage by organizing, developing and participating in a creative process resulting in a live performance that incorporates successful application of design and technological principles.

Communication

3. Use effective communication and collaboration skills throughout the creative process.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
ARH 2050 and ARH 2051	I, R, A		I, R, A
THE 2000	I		I
THE 4110 and THE 4111	R, A		A
THE 4260 and THE 4285	I, R, A		I, R, A
THE 4959 (capstone)	A	A	A
TPA 2074	I	I	I
TPA 2202C, TPA 2232C and TPA 3217	I	I	I

TPA 3208 or TPA 4239 (based on focus area)	I, R	I, R	I, R
TPA 4020, TPA 4049 and TPA 4066	I, R, A		I, R, A
TPA 4201 or TPA 4930 or TPA 4XXX (based on focus area)	R, A	R, A	R, A

Assessment Types

- Exams
- Senior paper and project
- Design/technical portfolio reviews
- BFA design juries

Theatre Production | Costume Design

The B.F.A. in theatre performance is also offered at the New World School of the Arts in Miami.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Costume Design (p. 1170) | Lighting Design (p. 1173) | Scene Design (p. 1176)
- **Credits for Degree:** 124
- **Contact:** Email (kaustin@ufl.edu)
- **Additional Information**
- **Related Theatre Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The BFA Theatre Production program has 3 specialization areas: costume design, lighting design, and scene design.

Students enrolled in Theatre Production will complete coursework in all three areas. Selected independent studies, advanced electives, and production assignments in THE 4950 focus on the specialization.

Today's theatre design and production depends heavily on complex electronic mechanical systems used in professional theatres, film, and television. Students must pass a portfolio review for admission to any production program. For more information consult the department handbook or the academic advisor.

All theatre majors should consult the academic advisor as early as possible.

Related Theatre Programs

- Bachelor of Arts in Theatre (p. 1152)
- Bachelor of Fine Arts in Theatre Performance (p. 1161)
- Theatre minor (p. 1161)
- Theatre Production minor (p. 1179)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500501&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 12 critical-tracking courses with minimum grades of C: THE 2000, THE 4950, TPA 2074, TPA 2075, TPA 2120C, TPA 2202C, TPA 2232C, TPA 3217, TPA 3238, TPA 4239, TPP 2110, TPP 3650
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 5

- Complete 5 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
THE 2000	Theatre Appreciation (**Critical Tracking**; State Core Gen Ed Humanities and Diversity)	3
TPA 2074	Drawing and Rendering (**Critical Tracking**)	3
TPA 2202C	Stagecraft (**Critical Tracking**)	4
TPP 2110	Acting 1-Instrument and Discipline (**Critical Tracking**)	3
Gen Ed Mathematics		3
	Credits	16
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
TPA 2075	Scene Painting (**Critical Tracking**)	3
TPA 2120C	Beginning Makeup (**Critical Tracking**)	1
TPA 2232C	Beginning Costume (**Critical Tracking**)	3
State Core Gen Ed Mathematics (p. 23)		3
Gen Ed Composition (Writing Requirement)		3
	Credits	16
Semester Three		
THE 4950	Production and Performance (**Critical Tracking**)	1
TPA 3238	Advanced Costume Construction (**Critical Tracking**)	3
TPA 4239	Costume Patterning (**Critical Tracking**)	3
TPP 3650	Script Analysis (**Critical Tracking**)	3
Gen Ed Social and Behavioral Sciences		3
State Core Gen Ed Physical or Behavioral Sciences (p. 23)		3
	Credits	16
Semester Four		
THE 4950	Production and Performance	1
TPA 4049 or THE 4260	Costume Design or Historic Costume for the Stage	3
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Theatre elective		3
Elective		3
	Credits	16
Semester Five		
ARH 2050	Introduction to the Principles and History of Art 1 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1

TPA 3217	Introduction to Lighting and Sound (**Critical Tracking**)	4
TPA 4066	Scene Design	3
Elective		3
	Credits	14
Semester Six		
ARH 2051	Introduction to the Principles and History of Art 2 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
TPA 4049 or THE 4260	Costume Design or Historic Costume for the Stage	3
Gen Ed Physical or Biological Sciences		3
Theatre electives		6
	Credits	16
Summer After Semester Six		
THE 4945	Summer Repertory Theatre	6
	Credits	6
Semester Seven		
TPA 4020	Lighting Design	3
TPA 4930	Special Topics in Theatre Production	3
THE 4110	History of Theatre on Stage 1 (Gen Ed Humanities and International)	3
THE 4285	History of Decor and Architecture for the Stage	3
	Credits	12
Semester Eight		
TPA costume techniques elective		3
THE 4111	History of Theatre on Stage 2 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
THE 4959	Senior Project	2
Elective		3
	Credits	12
	Total Credits	124

For the B.F.A. in production, students must complete at least 59 credits at the 3000/4000 levels.

Complete 15 credits of theatre courses by end of the junior year and maintain a 2.0 GPA.

Academic Learning Compact

The Bachelor of Fine Arts in theatre production meets the diverse aesthetic and technological demands of contemporary society. Today's theatre design and production depend heavily on the complex electronic and mechanical systems used in professional theatres. This curriculum provides academic instructing and professional training in costume design and technology, scenic design and lighting design. The program provides a laboratory environment where students can apply the skills learned in classroom exercises and theories.

Before Graduating Students Must

- Present a senior project and review your portfolio with representatives from the appropriate faculty. You must pass the senior project and portfolio review with a satisfactory rating.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply principles of two and three-dimensional design aesthetics to costume, lighting or scene design for live performance as a method of bringing text, choreographic work or public exposition to the stage.

Critical Thinking

2. Organize, develop and participate in the art, craft and process of moving the script onto the stage by organizing, developing and participating in a creative process resulting in a live performance that incorporates successful application of design and technological principles.

Communication

3. Use effective communication and collaboration skills throughout the creative process.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
ARH 2050 and ARH 2051	I, R, A		I, R, A
THE 2000	I		I
THE 4110 and THE 4111	R, A		A
THE 4260 and THE 4285	I, R, A		I, R, A
THE 4959 (capstone)	A	A	A
TPA 2074	I	I	I
TPA 2202C, TPA 2232C and TPA 3217	I	I	I
TPA 3208 or TPA 4239 (based on focus area)	I, R	I, R	I, R
TPA 4020, TPA 4049 and TPA 4066	I, R, A		I, R, A
TPA 4201 or TPA 4930 or TPA 4XXX (based on focus area)	R, A	R, A	R, A

Assessment Types

- Exams
- Senior paper and project
- Design/technical portfolio reviews
- BFA design juries

Theatre Production | Lighting Design

The B.F.A. in theatre performance is also offered at the New World School of the Arts in Miami.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Costume Design (p. 1170) | Lighting Design (p. 1173) | Scene Design (p. 1176)
- **Credits for Degree:** 124
- **Contact:** Email (kaustin@ufl.edu)
- **Additional Information**
- **Related Theatre Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The BFA Theatre Production program has 3 specialization areas: costume design, lighting design, and scene design.

Students enrolled in Theatre Production will complete coursework in all three areas. Selected independent studies, advanced electives, and production assignments in THE 4950 focus on the specialization.

Today's theatre design and production depends heavily on complex electronic mechanical systems used in professional theatres, film, and television. Students must pass a portfolio review for admission to any production program. For more information consult the department handbook or the academic advisor.

All theatre majors should consult the academic advisor as early as possible.

Related Theatre Programs

- Bachelor of Arts in Theatre (p. 1152)
- Bachelor of Fine Arts in Theatre Performance (p. 1161)
- Theatre minor (p. 1161)
- Theatre Production minor (p. 1179)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500501&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 11 critical-tracking courses with minimum grades of C: THE 2000, THE 4950, TPA 2074, TPA 2120C, TPA 2202C, TPA 2232C, TPA 3208, TPA 3217, TPA 4020, TPP 2110, TPP 3650
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.0 UF GPA required

Semester 5

- Complete 5 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
TPA 2074	Drawing and Rendering (**Critical Tracking**)	3
TPA 2202C	Stagecraft (**Critical Tracking**)	4
THE 2000	Theatre Appreciation (**Critical Tracking**; State Core Gen Ed Humanities and Diversity)	3
TPP 2110	Acting 1-Instrument and Discipline (**Critical Tracking**)	3
Gen Ed Mathematics		3
	Credits	16
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
TPA 3208	Drawing/Drafting for the Stage (**Critical Tracking**)	3
TPA 3217	Introduction to Lighting and Sound (**Critical Tracking**)	4
State Core Gen Ed Mathematics (p. 23)		3
Gen Ed Composition (Writing Requirement)		3
	Credits	16
Semester Three		
THE 4285	History of Decor and Architecture for the Stage	3
THE 4950	Production and Performance (**Critical Tracking**)	1
TPA 4020	Lighting Design (**Critical Tracking**)	3
TPP 3650	Script Analysis (**Critical Tracking**)	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Social and Behavioral Sciences		3
	Credits	16

Semester Four		
THE 4950	Production and Performance	1
TPA 2120C	Beginning Makeup (**Critical Tracking**)	1
TPA 2232C	Beginning Costume (**Critical Tracking**)	3
TPA 4049	Costume Design	3
or THE 4260	or Historic Costume for the Stage	
State Core Gen Ed Composition (p. 23)		3
Theatre elective		3
	Credits	14
Semester Five		
ARH 2050	Introduction to the Principles and History of Art 1 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
TPA 4021	Lighting Design 2	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		6
Theatre elective		3
	Credits	16
Semester Six		
ARH 2051	Introduction to the Principles and History of Art 2 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
TPA 4049	Costume Design	3
or THE 4260	or Historic Costume for the Stage	
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Theatre elective		3
Elective		3
	Credits	16
Summer After Semester Six		
THE 4945	Summer Repertory Theatre	6
	Credits	6
Semester Seven		
THE 4110	History of Theatre on Stage 1 (Gen Ed Humanities and International)	3
TPA 4066	Scene Design	3
Electives		6
	Credits	12
Semester Eight		
THE 4111	History of Theatre on Stage 2 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
THE 4959	Senior Project	2
Theatre elective		3
Elective		3
	Credits	12
	Total Credits	124

For the B.F.A. in production, students must complete at least 59 credits at the 3000/4000 levels.

Complete 15 credits of theatre courses by end of the junior year and maintain a 2.0 GPA.

TPA 3947 and TPA 4946 are recommended electives; each course is repeatable for up to 18 credits for scene, lighting and costume design majors.

Academic Learning Compact

The Bachelor of Fine Arts in theatre production meets the diverse aesthetic and technological demands of contemporary society. Today's theatre design and production depend heavily on the complex electronic and mechanical systems used in professional theatres. This curriculum provides academic instructing and professional training in costume design and technology, scenic design and lighting design. The program provides a laboratory environment where students can apply the skills learned in classroom exercises and theories.

Before Graduating Students Must

- Present a senior project and review your portfolio with representatives from the appropriate faculty. You must pass the senior project and portfolio review with a satisfactory rating.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply principles of two and three-dimensional design aesthetics to costume, lighting or scene design for live performance as a method of bringing text, choreographic work or public exposition to the stage.

Critical Thinking

2. Organize, develop and participate in the art, craft and process of moving the script onto the stage by organizing, developing and participating in a creative process resulting in a live performance that incorporates successful application of design and technological principles.

Communication

3. Use effective communication and collaboration skills throughout the creative process.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
ARH 2050 and ARH 2051	I, R, A		I, R, A
THE 2000	I		I
THE 4110 and THE 4111	R, A		A
THE 4260 and THE 4285	I, R, A		I, R, A
THE 4959 (capstone)	A	A	A
TPA 2074	I	I	I
TPA 2202C, TPA 2232C and TPA 3217	I	I	I
TPA 3208 or TPA 4239 (based on focus area)	I, R	I, R	I, R
TPA 4020, TPA 4049 and TPA 4066	I, R, A		I, R, A
TPA 4201 or TPA 4930 or TPA 4XXX (based on focus area)	R, A	R, A	R, A

Assessment Types

- Exams
- Senior paper and project
- Design/technical portfolio reviews
- BFA design juries

Theatre Production | Scene Design

The B.F.A. in theatre performance is also offered at the New World School of the Arts in Miami.

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Fine Arts
- **Specializations:** Costume Design (p. 1170) | Lighting Design (p. 1173) | Scene Design (p. 1176)
- **Credits for Degree:** 124
- **Contact:** Email (kaustin@ufl.edu)
- **Additional Information**
- **Related Theatre Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The BFA Theatre Production program has 3 specialization areas: costume design, lighting design, and scene design.

Students enrolled in Theatre Production will complete coursework in all three areas. Selected independent studies, advanced electives, and production assignments in THE 4950 focus on the specialization.

Today's theatre design and production depends heavily on complex electronic mechanical systems used in professional theatres, film, and television. Students must pass a portfolio review for admission to any production program. For more information consult the department handbook or the academic advisor.

All theatre majors should consult the academic advisor as early as possible.

Related Theatre Programs

- Bachelor of Arts in Theatre (p. 1152)
- Bachelor of Fine Arts in Theatre Performance (p. 1161)
- Theatre minor (p. 1161)
- Theatre Production minor (p. 1179)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500501&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 12 critical-tracking courses with minimum grades of C: THE 2000, THE 4950, TPA 2074, TPA 2075, TPA 2120C, TPA 2202C, TPA 2232C, TPA 3208, TPA 3217, TPA 4066, TPP 2110, TPP 3650
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course with a minimum grade of C
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Semester 5

- Complete 5 additional critical-tracking courses with minimum grades of C
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
THE 2000	Theatre Appreciation (**Critical Tracking**; State Core Gen Ed Humanities and Diversity)	3
TPA 2074	Drawing and Rendering (**Critical Tracking**)	3
TPA 2202C	Stagecraft (**Critical Tracking**)	4
TPP 2110	Acting 1-Instrument and Discipline (**Critical Tracking**)	3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Two		
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
TPA 2075	Scene Painting (**Critical Tracking**)	3

TPA 3208	Drawing/Drafting for the Stage (**Critical Tracking**)	3
Gen Ed Composition (Writing Requirement)		3
Gen Ed Mathematics		3
	Credits	15
Semester Three		
THE 4950	Production and Performance (**Critical Tracking**)	1
TPA 4066	Scene Design (**Critical Tracking**)	3
TPP 3650	Script Analysis (**Critical Tracking**)	3
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
Gen Ed Physical or Biological Sciences		3
	Credits	16
Semester Four		
THE 4950	Production and Performance	1
TPA 2120C	Beginning Makeup (**Critical Tracking**)	1
TPA 2232C	Beginning Costume (**Critical Tracking**)	3
TPA 3217	Introduction to Lighting and Sound (**Critical Tracking**)	4
TPA 4049 or THE 4260	Costume Design or Historic Costume for the Stage	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
	Credits	15
Semester Five		
ARH 2050	Introduction to the Principles and History of Art 1 (Gen Ed Humanities and International)	3
THE 4285	History of Decor and Architecture for the Stage	3
THE 4950	Production and Performance	1
TPA 4076	Advanced Theatre Graphics	3
Electives		6
	Credits	16
Semester Six		
ARH 2051	Introduction to the Principles and History of Art 2 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
TPA 4049 or THE 4260	Costume Design or Historic Costume for the Stage	3
TPA 4930	Special Topics in Theatre Production (Scene Design 2)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Elective		3
	Credits	16
Summer After Semester Six		
THE 4945	Summer Repertory Theatre	6
	Credits	6
Semester Seven		
THE 4110	History of Theatre on Stage 1 (Gen Ed Humanities and International)	3
TPA 4020	Lighting Design	3
TPA 4206	Advanced Crafts for the Stage	3
Elective		3
	Credits	12
Semester Eight		
THE 4111	History of Theatre on Stage 2 (Gen Ed Humanities and International)	3
THE 4950	Production and Performance	1
THE 4959	Senior Project	2
Theatre elective		3
Elective		3
	Credits	12
	Total Credits	124

For the B.F.A. in production, students must complete at least 59 credits at the 3000/4000 levels.

Complete 15 credits of theatre courses by end of the junior year and maintain a 2.0 GPA.

Specialization areas with P and P Assignments and Electives: TPA 3947 and TPA 4946 are recommended electives; each course is repeatable for up to 18 credits for majors in scene, lighting and costume design.

Academic Learning Compact

The Bachelor of Fine Arts in theatre production meets the diverse aesthetic and technological demands of contemporary society. Today's theatre design and production depend heavily on the complex electronic and mechanical systems used in professional theatres. This curriculum provides academic instructing and professional training in costume design and technology, scenic design and lighting design. The program provides a laboratory environment where students can apply the skills learned in classroom exercises and theories.

Before Graduating Students Must

- Present a senior project and review your portfolio with representatives from the appropriate faculty. You must pass the senior project and portfolio review with a satisfactory rating.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply principles of two and three-dimensional design aesthetics to costume, lighting or scene design for live performance as a method of bringing text, choreographic work or public exposition to the stage.

Critical Thinking

2. Organize, develop and participate in the art, craft and process of moving the script onto the stage by organizing, developing and participating in a creative process resulting in a live performance that incorporates successful application of design and technological principles.

Communication

3. Use effective communication and collaboration skills throughout the creative process.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
ARH 2050 and ARH 2051	I, R, A		I, R, A
THE 2000	I		I
THE 4110 and THE 4111	R, A		A
THE 4260 and THE 4285	I, R, A		I, R, A
THE 4959 (capstone)	A	A	A
TPA 2074	I	I	I
TPA 2202C, TPA 2232C and TPA 3217	I	I	I
TPA 3208 or TPA 4239 (based on focus area)	I, R	I, R	I, R
TPA 4020, TPA 4049 and TPA 4066	I, R, A		I, R, A
TPA 4201 or TPA 4930 or TPA 4XXX (based on focus area)	R, A	R, A	R, A

Assessment Types

- Exams
- Senior paper and project
- Design/technical portfolio reviews
- BFA design juries

Theatre Production Minor

The School of Theatre and Dance offers a minor in general theatre or theatre production.

About this Program

- **College:** Arts (p. 1030)
- **Credits:** 18-19 | Completed with minimum grades of C and no S-U
- **Related Theatre Programs**

All students who plan to minor in theatre must consult the School of Theatre and Dance's undergraduate advisor to select a program of study.

Of the total credits, nine credits must be at the 3000 level or above and 12 credits must be completed at the University of Florida.

Required Courses

Code	Title	Credits
THE 2000	Theatre Appreciation	3
THE 4950	Production and Performance	1
THE 4950	Production and Performance	1
Select one track:		13-14
Costume Design Track		
Lighting Design Track		
Set Design Track		
Total Credits		18-19

Costume Design Track

Code	Title	Credits
TPA 2074	Drawing and Rendering	3
TPA 2120C	Beginning Makeup	1
TPA 2232C	Beginning Costume	3
TPA 3238	Advanced Costume Construction	3
TPA 4049	Costume Design	3
or TPA 4239	Costume Patterning	
Total Credits		13

Lighting Design Track

Code	Title	Credits
TPA 2202C	Stagecraft	4
TPA 3208	Drawing/Drafting for the Stage	3
TPA 3217	Introduction to Lighting and Sound	4
TPA 4020	Lighting Design	3
Total Credits		14

Set Design Track

Code	Title	Credits
TPA 2074	Drawing and Rendering	3
TPA 2202C	Stagecraft	4
TPA 3208	Drawing/Drafting for the Stage	3
TPA 4066	Scene Design	3
Total Credits		13

Related Theatre Programs

- Bachelor of Arts in Theatre (p. 1152)
- Bachelor of Fine Arts in Theatre Performance (p. 1161)
- Bachelor of Fine Arts in Theatre Production (p. 1168)

Art | BA

The B.A. in Art allows students to focus on studio art but in a more flexible and less studio-rigorous fashion than the B.F.A. degree options. The B.A. in Art encourages students to consider a double major or dual-degree, minors, or certificates in specific art or non-art related disciplines, and/or complete preprofessional requirements for other non-art related programs.

Many students graduating with a B.A. in Art go on to pursue professional programs in healthcare (medical school, veterinary school, art therapy graduate programs, etc.) and other graduate programs in both non-art and art-related disciplines (i.e., law, business, counseling, etc.).

About this Program

- **College:** Arts (p. 1030)
- **Degree:** Bachelor of Arts
- **Credits for Degree:** 120
- **Additional Information**
- **Related Art Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The undergraduate Art program provides a wide range of experiences in studio art, including technical and formal concerns, experimental approaches and conceptual development, while also exploring coursework required for other academic disciplines within the university.

All coursework required for the major must be completed with minimum grades of C.

Related Art Programs

- Bachelor of Arts in History of Art (p. 1068)
- Art History minor (p. 1072)
- Studio Art minor (p. 1151)
- Art Education certificate (p. 1067)
- Arts in Medicine certificate (p. 1073)
- Ceramics certificate (p. 1073)
- Graphic Design certificate (p. 1093)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500702&track=01) may be used for transfer students.

Semester 1

- Complete ART 1803C for 6 credits or complete 6 credits of any ART/GRA/PGY courses at the 2000 level with minimum grades of C
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses: ARH 2050, ARH 2051, ART 2305C or two 2000-level ART/GRA/PGY courses with minimum grades of C
- 2.5 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C
- 2.75 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course with a minimum grade of C
- 3.0 UF GPA required

Semester 5

- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ART 1803C	Workshop for Art Research and Practice: WARP (**Critical Tracking**)	6
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	15
Semester Two		
ARH 2050	Introduction to the Principles and History of Art 1 (**Critical Tracking**; Gen Ed Humanities and International)	3
ART 2305C	Perceptual Drawing (**Critical Tracking**)	3
ART 2701C or ART 2757C	Sculpture: Shaping Form and Space or Ceramics: 3D Concepts	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
State Core Gen Ed Mathematics (p. 23)		3
	Credits	15
Semester Three		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities and International)	3
Studio electives (**Critical Tracking**; ART/GRA/PGY prefixes at 2000 level)		6
Foreign language		5
	Credits	14
Semester Four		
ARH 2500	Non-Western Art	3
Gen Ed Mathematics; pure math		3
Studio electives (**Critical Tracking**; ART/GRA/PGY prefixes at 2000 level)		6
Foreign language		5
	Credits	17
Semester Five		
ARH modern art course (3000/4000 level)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
Studio concentration course (ART/PGY prefix at 3000/4000 level)		3
Electives (outside SAAH, 3000/4000 level)		6
	Credits	15
Semester Six		
Gen Ed Biological or Physical Sciences		3
Studio electives (ART/PGY prefix at 3000/4000 level)		6
Electives (outside SAAH, 3000/4000 level)		6
	Credits	15
Semester Seven		
Gen Ed Social and Behavioral Sciences		3
Studio concentration course (ART/PGY prefix at 3000/4000 level)		3
Electives (outside SAAH, 3000/4000 level)		6
Elective		3
	Credits	15
Semester Eight		
ART 4883C	Making and Meaning	3
Gen Ed Composition		3
Electives		8
	Credits	14
	Total Credits	120

Outside elective requirement: An outside elective is any course taken outside of the School of Art and Art History. At least 18 credits of electives must be chosen from 3000/4000-level courses. These courses **cannot** also count toward general education requirements.

Students must take 10 credits of foreign language or show a minimum proficiency in a single foreign language by taking a placement test. If proficiency is met, it does not reduce the number of credits required for the degree. Foreign language can be taken S-U or for a letter grade, which must be a minimum grade of C.

Academic Learning Compact

The Bachelor of Arts in visual art studies is a general arts degree. Students will achieve proficiency in general art concepts, experimental approaches, techniques and formal composition in art. Through the study of art theory, art history and historic and contemporary art, students gain knowledge of art genres and systems of thought. Emphasis is on the development of new approaches to making art. Students will learn to use research practices effectively, to discuss the development of their work in speech and in writing and to develop a portfolio and resume.

Before Graduating Students Must

- Pass a particular test, a final project, a term paper and/or a portfolio, as determined and evaluated by the appropriate faculty.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Understand the principles and elements of artistic practice.
2. Produce artworks choosing and employing media and techniques that support ideation.

Critical Thinking

3. Develop sound research methods and production practices.
4. Develop a studio practice that demonstrates complex thought, analysis and reasoning.

Communication

5. Create a portfolio of artwork.
6. Describe art research and practice in writing.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ARH 20th Century Art Course	I	I				
ART 1803C	I	I	I	I	I	I
ART 2305C	I	I				
ART 2701C or ART 2757C	I	I				
ART or PGY Studio Course 3000/4000 level	R	R	R	R	R	R
Capstone Course 4000 level	A	A	A	A	A	A

Assessment Types

- Portfolio

Accounting, Fisher School of

Accounting at UF traces its roots back to 1923 when the first accounting course was offered. Today, as one of the nation's few free-standing accounting schools, the Fisher School of Accounting has cultivated a distinctive identity at the University of Florida and among the nation's top business programs.

Contact

210 Gerson Hall
P.O. Box 117166
University of Florida
Gainesville, FL 32611-7166
352.273.0200

Map (http://campusmap.ufl.edu/?loc=0054) More Info (http://www.warrington.ufl.edu/accounting)

Established

1933. Endowed in 1985 through a gift from alumnus Frederick E. Fisher.

Rankings

2019. *US News & World Report* ranks the undergraduate program 17th overall in the nation and 9th among public institutions.

Accredited

The Association to Advance Collegiate Schools of Business (AACSB) International.

Programs

Four-year undergraduate program, five-year 3/2 program with joint award of bachelor's and master's degrees in accounting.

Degrees

Bachelor of Science in Accounting (BSAc), Master of Accounting (MAcc).

Scholarships

Fifth-year accounting students should obtain scholarship applications from the Fisher School and complete them early in the spring term of their fourth year. General financial aid information is available from the Office of Student Financial Affairs.

Helpful Links

- School Website (https://warrington.ufl.edu/about/fisher)
- Combined Degrees (p. 1400)
- Computer Requirement (https://warrington.ufl.edu/information-technology-support-programs/wp-content/uploads/sites/81/2018/02/computer-requirements.pdf)
- Student Organizations (https://warrington.ufl.edu/accounting-current-students)
- Certified Public Accounting in Florida (http://www.myfloridalicense.com/DBPR/certified-public-accounting)

Academic Policies

The information provided in this catalog is necessarily brief. In addition to the information herein, students are responsible for compliance with the policies and procedures described in the Fisher School of Accounting Student Handbook.

More Info (https://warrington.ufl.edu/accounting-current-students/bachelor-of-science-in-accounting)

Admission Requirements

Submitting an Undergraduate Application

UF students who have selected accounting as their major upon entering the university will automatically be classified as accounting students. This classification will remain as long as the student meets universal tracking and other academic requirements. Other UF students who want to change their major to accounting apply at the Fisher School office. Transfer students apply through the university's Office of Admissions.

Junior Applicant Pool

The Fisher School of Accounting is a limited access program; it uses an applicant pool to select candidates for admission to its Bachelor of Science in Accounting program—BSAc. All applications that meet the minimum standards are placed into a pool from which the most qualified are selected for admission each term.

Admission decisions use a holistic evaluation method which considers attributes such as, but not limited to: pattern of repeated coursework, drops, withdrawals, general education deficiencies, the rigor of electives coursework completed and the academic reputation of the program attended (its accreditation and affiliation with the Florida SUS system).

Due to limited capacity, it is unlikely that all candidates who meet the minimum standards for inclusion into the applicant pool will be admitted. Historically, a 3.5 overall and a 3.5 preprofessional, or higher, grade point average are required to be a competitive candidate for admission, but the actual admission profile varies annually. Average GPAs for previously admitted junior transfer cohorts can be found on the Demographics section of the Fisher School of Accounting website. It is critical to note that admission decisions are not based exclusively on grades. Serious candidates are encouraged to complete additional coursework in mathematics such as Calculus 2 (MAC 2234 or MAC 2312).

Minimum Standards for Inclusion in the Undergraduate Applicant Pool

- **Meet the Office of Admissions minimum requirements for junior transfers.**
- **Completion of, or in the process of completing, at least 60 semester credits of transferable coursework from an accredited institution**.
  - Applicants from Florida state colleges are required to complete their Associate of Arts degree before enrollment in the Fisher School of Accounting. Florida community or state public college Associate of Arts graduates and candidates from Florida Public Universities who have successfully completed 60 semester credits of coursework, including the 36-credit general education requirement, shall receive priority for admission to limited access programs over out-of-state applicants and transfer students from Florida private institutions.
- **Applicants will not be eligible for admission if they have earned 90 transferable hours.**
- **A 3.0 cumulative GPA calculated on *all attempts* of all college-level coursework**.
- **Official Grades for all Preprofessional Coursework**.
  - Applicants should have official grades for all coursework completed at the time of the application, but if official grades for ALL preprofessional coursework described herein has not been provided by the applicable credentials deadline for the term the applicant is seeking admission, then the application will be deemed incomplete and denied without further notification from our office.
- **Completion of seven preprofessional courses with a 3.0 GPA**.

Code	Title	Credits
ACG 2021	Introduction to Financial Accounting (or equivalent)	4
ACG 2071	Introduction to Managerial Accounting (or equivalent)	4
CGS 2531	Problem Solving Using Computer Software (or equivalent)	3
or ISM 3013	Introduction to Information Systems	
ECO 2013	Principles of Macroeconomics (or equivalent)	4
ECO 2023	Principles of Microeconomics (or equivalent)	4
MAC 2233	Survey of Calculus 1 (or equivalent)	3
STA 2023	Introduction to Statistics 1 (or equivalent)	3

CLEP credit is not acceptable to replace preprofessional coursework.

- **ACG 2021 Introduction to Financial Accounting and ACG 2071 Introduction to Managerial Accounting, or their equivalents, must be completed with a minimum grade of B** .
  - Applicants are permitted a maximum of two attempts (including drops and withdrawals) to earn the minimum B grade required in ACG 2021 and ACG 2071.If a series of courses is taken, which upon completion is equivalent to ACG 2021, then a minimum grade of B must be achieved in each course.
- **Foreign Language Tests:**
  - Foreign applicants who are not exempt under university guidelines must complete the TOEFL (Test of English as a Foreign Language) or the IELTS (International English Language Testing System).
    - Minimum Scores:
      - TOEFL: Total > 100 / Listening > 26 / Writing > 17 / Reading > 20 / Speaking > 23
      - IELTS: Total > 7.0/ Listening > 7.0 / Writing > 7.0 / Reading > 7.0 / Speaking > 7.0

Admission Policies

Detailed computation of the cumulative GPA and preprofessional GPAs:

- Courses deemed vocational are not factored into the GPA computations
- If an applicant has attended the University of Florida and another institution, the cumulative GPA calculation will be based only on the University of Florida coursework.
- When an applicant is repeating a course after having earned a grade of C, S or P, or higher, the repeat grade will not be averaged into the preprofessional GPA computation (unless the repeated grade is lower than a C). However, when ACG 2021 or ACG 2071 is repeated after earning a C, C+, or B-, only the second attempt is computed in the preprofessional GPA.
- When the applicant completes two or more different courses (and each course fulfills the same preprofessional requirement), the course used to compute the preprofessional GPA shall only include the first course completed. For example, if an applicant completes MAC 2311 with a C, S or P grade and then later completes MAC 2233 receiving an A grade, only the grade earned in MAC 2311 will be used to compute the applicant's preprofessional GPA.
- Grade forgiveness is not considered when computing the preprofessional GPA.

For students who are not offered admission to the BSAc, the State University System (SUS) (https://www.flbog.edu/universities) website provides links to other accounting programs within the SUS.

More Info (http://www.flbog.edu/universities)

Admission to the university does not guarantee admission to the Fisher School. Admission to the Fisher School does not constitute admission to the 3/2 program. This requires a separate application to the graduate school.

Admission requirements for the Fisher School are subject to change. Please check the Fisher School (http://warrington.ufl.edu/accounting) website for the current standards.

Candidates with incomplete applications or who do not meet all minimum standards for inclusion in the applicant pool will be denied without further contact from our office.

Meeting the minimum standards as stated herein does not guarantee admission into the Fisher School. Admission is selective.

Courses Taken at Other Institutions Before Admission to the University

Professional coursework that is required as part of the third, fourth or fifth year should be taken only at the University of Florida.

A maximum of one 3000/4000-level approved business core course may count toward the student's undergraduate degree. The student will be required to take another course in the area waived. Completion of more than one upper-division business or accounting course prior to admission will negatively affect prospects for transfer admission.

Upper-division accounting coursework taken elsewhere cannot be substituted for the accounting courses required for the BSAc degree.

Courses Taken at Other Institutions After Admission to the University

After being admitted to the Fisher School of Accounting, a student may not take *any* preprofessional, critical tracking, communication, accounting or business core coursework required as part of the Bachelor of Science in Accounting degree at *any* other institution.

Elective and general education courses may be taken outside the university only if:

- The student will have more than 30 credits left to graduate upon completion of such courses.
- The student obtains the advance approval of the undergraduate advising coordinator or associate director.

Distance Learning Courses

Web-based courses offered in the university schedule of courses may be taken. However, UF Online courses, distance learning or flexible learning courses offered by the Division of Continuing Education are not permitted.

Performance Policies

Satisfactory/Unsatisfactory Grade Option

An undergraduate student may request the S/U option for elective courses only. Courses taken to satisfy general education, degree requirements, or preparatory coursework for the program cannot be taken S/U.

Unsatisfactory Performance

Students who do not make satisfactory academic progress will be dropped from the accounting program. In addition to university regulations concerning unsatisfactory performance, the school will exclude students from further registration for the following reasons:

Freshmen and Sophomores

1. The student does not comply with the minimum universal tracking requirements.
2. Failure to comply with all additional universal tracking requirements listed in the Fisher School of Accounting Handbook and the

Freshman and Sophomore Guide after one subsequent term of enrollment.

3. The student has not earned a B grade in ACG 2021 or ACG 2071 after two attempts (including drop or withdrawal).
4. The UF GPA fell below 3.0 and remained there after one subsequent term of enrollment.
5. The Cumulative GPA on all attempts of preprofessional coursework fell below the minimum 3.0 required and remained there after one subsequent term of enrollment.
6. The student has withdrawn from the university three times while classified as an AC student.

Juniors and Seniors

1. The student earns two grades below a C in accounting courses numbered 3000 and above regardless of whether the student was in the Fisher School of Accounting at the time they earned those grades.
2. The student's cumulative grade point average on all coursework completed at the University of Florida falls below 2.0 and, after **one** subsequent term of enrollment, this or any other grade point average described herein, is below a 2.0.
3. The student's cumulative upper-division grade point average falls below a 2.0, after **one** subsequent term of enrollment, this or any other grade point average described herein, is below a 2.0.
4. The student's accounting grade point average, calculated on **all attempts** of required accounting courses numbered 3000 and above, falls below 2.0 and, after **one** subsequent term of enrollment, this or any other grade point average described herein, is below a 2.0.
5. The student withdraws from the university three times after admission into the Fisher School of Accounting.
6. The student fails to complete two required 3000 level and above accounting course in one academic year, defined as Fall, Spring, Summer (or Spring, Summer, Fall for Innovation Academy Students). The following exceptions apply:
   a. If no courses for which the student is eligible are offered over the Summer, the student will be granted an additional semester to complete a course.
   b. For upper-division transfer students, academic year begins the semester the student matriculates. So, for Spring admits, the year is Spring, Summer, Fall.
   c. If the student is enrolled in a study abroad program, the student will be granted one additional semester to complete the next course.
   d. If the student is on an internship, but enrolled in UF courses, the student will be granted one additional semester to complete the next course. The student must either be enrolled in an internship course or provide documentation of the internship.

For purposes of all of the above policies, the following rule applies to the definition of a **term**:

- Any term for which a student registers for a course at the University of Florida counts as a term of enrollment, even if the student subsequently withdraws from the term (after the drop/add period).
- Summer registration is viewed as registration for one term, (e.g., whether a student registers for Summer A alone, or registers for Summer A and Summer B and C, the student is considered to have registered for one term).

Refer to the University Grades and Grading policies for a discussion on grade point average computation.

Undergraduate Drop Policies

During a student's first 60 credits completed at UF, a total of two drops are permitted. Two additional drops are provided for the student's second 60 credits. Unused drops from the student's first 60 credits are not available to use during the second 60 credits.

The associate director, as advised by the Petitions Committee, must act upon all other drop requests. The committee is very strict when considering such requests and will not approve drops for reasons that are not clearly beyond the student's control.

This policy applies to drop requests made after drop/add and before the period governed by the Faculty Senate's Student Petitions Committee.

Helpful Links

- Dean's List (p. 1385)
- Other Business Programs
  - UF Online (https://warrington.ufl.edu/undergraduate-academics/online-business-program)
  - Other UF Colleges (https://warrington.ufl.edu/undergraduate-academics/wp-content/uploads/sites/49/2018/03/NonBusMajors.pdf)

Degree Requirements

Application for Graduation

Each student should plan to see an advisor in the semester before the term they intend to graduate. This allows the student to confirm that all degree requirements will be met.

It is the student's responsibility to apply for graduation through the degree application link on ONE.UF (https://one.uf.edu) by the deadline (p. 1442) for that term. Failure to submit a timely application may prevent graduation.

Requirements for Degree Certification

To graduate with a BSAc degree, a student must have satisfactorily completed 120 credits of prescribed coursework.

A student must also complete the following requirements:

- A minimum of 60 credits must be completed outside the Warrington College of Business and Fisher School of Accounting.
- A minimum of 60 credits of coursework for the BSAc degree must be at the 3000 level or above.
- The last 30 credits of coursework must have been completed in residence at the University of Florida.
- Must have completed at least 22 credits at the 3000 level or above in required accounting courses at the Fisher School.
- Waivers received for any coursework required for the BSAc degree will not reduce the credits required for graduation.
- Graduation credits will not be given for repeated courses. In addition, the degree candidate must have the following requirements:
  - A minimum 2.0 GPA on all UF coursework.
  - A minimum 2.0 GPA on all courses taken in excess of 60 credits.

- A minimum 2.0 GPA on all required accounting courses at the 3000 level or above.

Graduating with Honors (p. 1387)

Programs

MAJORS

- Accounting

MINORS

- Accounting Minor

UF ONLINE MINORS

- Accounting Minor UF Online

Accounting

The Bachelor of Science in Accounting (BSAc) is a four-year degree program that provides an excellent foundation in accounting and business. Its conceptual focus is designed to prepare students for success in a constantly evolving business environment and to prepare students for graduate studies.

About this Program

- **College:** Warrington College of Business
- **School:** Fisher School of Accounting (p. 1183)
- **Degree:** Bachelor of Science in Accounting
- **Credits for Degree:** 120
- **Contact:** Email (fsoa@warrington.ufl.edu) | 352.273.0200 | 210 Gerson Hall (http://campusmap.ufl.edu/?loc=0054)
- **Additional Information**
- **Related Accounting Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students enrolled in the BSAc program are eligible to submit an application for early admission to graduate school via the school's combined 3/2 Program. Students who complete this combined program meet education requirements to sit for the Uniform Certified Public Accountant exam and to practice as a CPA in Florida.

Some students enter the Fisher School of Accounting with the intention of limiting their accounting studies at UF to undergraduate coursework. These students view the BSAc degree as providing valuable preparation for post-graduate studies in areas other than accounting, (e.g., law) or they plan to complete their graduate accounting studies at another institution. Students are cautioned that completion of the Bachelor of Science in Accounting degree alone will not satisfy the educational requirements to be licensed as a CPA in Florida.

Related Accounting Programs

- Combined Degree (p. 1400)
  - *Five-year program with joint conferral of bachelor's and master's degrees in accounting.*
  - *Credits for the degree: 150*
- Accounting Minor (p. 1191)
- Accounting Minor UF Online (p. 1191)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=520301&track=01) may be used for transfer students.

Additional Information about Selecting General Education Courses

- To ensure accounting students have breadth in their general education experience, 3000/4000-level business core courses may not be used to satisfy general education requirements. For example, MAN 3025 and MAR 3023 may not be used to fulfill social science and behavioral science requirements.
- The selection of general education courses in the model semester plan is intended as a guide. Accounting students may vary their choice of general education courses, providing the selection of coursework complies with all university requirements. For additional information, refer to the General Education Program (p. 21) or meet with an undergraduate advisor.

Semester 1

- Complete 2 of the 8 critical-tracking courses: ACG 2021, ACG 2071, CGS 2531 (or ISM 3013), ECO 2013, ECO 2023, MAC 2233, MAC 2234, STA 2023
- 3.0 GPA required on all attempts of preprofessional courses
- 3.0 UF GPA required

Semester 2

- Complete 2 additional courses of the 8 critical-tracking courses (1 of the 4 courses must be MAC 2233 or equivalent)
- 3.0 GPA required on all attempts of preprofessional courses
- 3.0 UF GPA required

Semester 3

- Complete 2 additional courses of the 8 critical-tracking courses (1 of the 6 courses must be ACG 2021 with a minimum grade of B)
- 3.0 GPA required on all attempts of preprofessional courses
- 3.0 UF GPA required

Semester 4

- Complete all 8 critical-tracking courses (ACG 2071 must be completed with a minimum grade of B)
- Complete general education and the university writing requirements
- 3.0 GPA required on all attempts of preprofessional courses
- 3.0 UF GPA required

Semester 5

- Complete ACG 3101 and ACG 3401
- 3.0 GPA required on all attempts of preprofessional courses
- 3.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words		3
Elective		1
	Credits	14
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
GEB 3213	Professional Writing in Business (Gen Ed Composition; Writing Requirement: 6,000 words)	3
MAC 2234	Survey of Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	3
State Core Gen Ed Humanities with Diversity (p. 23)		3
Gen Ed Biological or Physical Sciences		3
	Credits	16
Semester Three		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	4
Select one:		3
CGS 2531	Problem Solving Using Computer Software (**Critical Tracking**; Gen Ed Mathematics)	
ISM 3013	Introduction to Information Systems (**Critical Tracking**)	
GEB 3218	Professional Speaking in Business	3
Gen Ed Humanities with International; Writing Requirement: 6,000 words		3

Elective		2
	Credits	15
Semester Four		
ACG 2071	Introduction to Managerial Accounting (**Critical Tracking**)	4
STA 2023	Introduction to Statistics 1 (**Critical Tracking**)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Social and Behavioral Sciences; Writing Requirement: 6,000 words		3
Elective		2
	Credits	15
Semester Five		
ACG 3101	Financial Accounting and Reporting 1 (**Critical Tracking**)	4
ACG 3401	Business Processes and Accounting Information System (**Critical Tracking**)	4
FIN 3403	Business Finance	4
QMB 3250	Statistics for Business Decisions	4
	Credits	16
Semester Six		
ACG 4111	Financial Accounting and Reporting 2	4
ACG 4341	Cost and Managerial Accounting	4
MAN 3025	Principles of Management	4
MAR 3023	Principles of Marketing	4
	Credits	16
Semester Seven		
Select one:		3-4
ACG 4632	Introduction to Auditing	
ACG 5637	Auditing 1	
& ACG 5647	and Auditing 2 (required for 3/2 program)	
GEB 3373	International Business	4
Select one:		3-4
TAX 4001	Introduction to Federal Income Tax	
TAX 5025	Federal Income Tax 1	
& TAX 5027	and Federal Income Tax 2 (required for 3/2 program)	
Electives (3000 level or higher)		4
	Credits	14-16
Semester Eight		
BUL 4310	The Legal Environment of Business	4
MAN 4504	Operations and Supply Chain Management	4
Electives (3000 level or higher)		6
	Credits	14
	Total Credits	120

Academic Learning Compact

The major offers a balanced, intellectually vibrant study of accounting. Upon completion of the baccalaureate program, students will possess the requisite accounting skills for entry-level positions in the practice of public accounting, in industry, in financial services, in government and in business more generally. Students also will be prepared for graduate study in accounting, in business and in related professions such as the law. More broadly, students will be prepared for success in a constantly evolving global economy.

Before Graduating Students Must

- Take the Business Field Test as prepared and administered by the Educational Testing Service (ETS). The score will be incorporated into a core business course taken in the final term.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Describe individual business disciplines and their relationship to the global business environment.
2. Prepare financial statements based upon generally accepted accounting principles.
3. Identify basic U.S. tax laws applicable to businesses and individuals.

4. Explain the attestation function and describe generally accepted auditing standards.
5. Describe the basic concepts of cost and managerial accounting and explain its role in business.

Critical Thinking

6. Apply mathematical concepts and technology to interpret, understand and communicate quantitative data.
7. Apply the conceptual framework, economic reasoning and generally accepted accounting principles to solving accounting problems.
8. Analyze and interpret economic and financial events for internal decision-making purposes.
9. Attest to the fairness of financial representations and to the adequacy of internal controls.
10. Prepare basic individual and business tax returns and apply U.S. tax laws for tax planning purposes.

Communication

11. Effectively produce, interpret and analyze written text, oral messages and multimedia presentations used in business.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Preprofessional

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
ACG 2021	I	I				I	I				
ACG 2071					I	I		I			
CGS 2531						I					
ECO 2013	I					I					
ECO 2023	I					I					
MAC 2233						I					
STA 2023						I		I			

Business Core

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
BUL 4310	I		I							I	
FIN 3403	I	I				I		I			
GEB 3373	R, A										
MAN 3025	I										
MAN 4504	R, A					R, A		I			
MAR 3023	R										
QMB 3250	R					R		I			

Major

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
ACG 3101	R	R					R				
ACG 3401	R	I		I			I		I, A		
ACG 4111		R, A				R	R, A				
ACG 4341					R, A	R		R, A			
ACG 4632 or ACG 5637				I, A					I, A		
TAX 4001 or TAX 5005			R, A							R, A	

Communications

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
GEB 3213											I, A
GEB 3218											I, A

Assessment Types

- Course assignments
- Tax cases

- Simulations
- Projects
- Exams
- Speeches
- The Educational Testing Service's Business Field Test

Accounting Minor

The accounting minor is open to all non-accounting students, offering a strong foundation in financial and managerial accounting beyond the introductory level.

About this Program

- **College:** Warrington College of Business
- **School:** Fisher School of Accounting (p. 1183)
- **Credits:** 24
- **Contact:** Email (fsoa@warrington.ufl.edu) | 352.273.0200 | 210 Gerson Hall (http://campusmap.ufl.edu/?loc=0054)
- **Related Accounting Programs**

With the increasingly interdisciplinary model used by businesses, completion of the minor broadens career opportunities and increases the student's marketability. With careful course selection, completion of the minor will accrue enough accounting credits for students from any major to apply for direct admission to the Master of Accounting program upon completion of the undergraduate degree.

Required Courses

Code	Title	Credits
ACG 2021	Introduction to Financial Accounting [1]	4
ACG 2071	Introduction to Managerial Accounting	4
ACG 3101	Financial Accounting and Reporting 1 [2]	4
ACG 3401	Business Processes and Accounting Information System [3]	4
ACG 4111	Financial Accounting and Reporting 2 [4]	4
ACG 4341	Cost and Managerial Accounting [5]	4
Total Credits		24

1 Prereq: sophomore standing.

2 Prereq: ACG 2021 and ACG 2071 with minimum grades of B.

3 Prereq: ACG 2021 and ACG 2071 with minimum grades of B; CGS 2531 or ISM 3013.

4 Prereq: ACG 3101 with minimum grade of C, FIN 3403.

5 Prereq: ACG 3101 and ACG 3401 with minimum grades of C, MAC 2234 and QMB 3250.

Additional Requirements

- All 3000-level and above coursework must be completed at the University of Florida.
- All course and grade prerequisites must be satisfied. Because the prerequisites for some upper-division accounting courses include business courses not included herein, non-business majors typically have to complete additional business courses to complete this minor.
- A minimum grade of C is required for each course in the minor, except for ACG 2021 and ACG 2071, which require a minimum grade of B.
- With advanced approval from the associate director, additional 3000-level or above accounting courses may be substituted for the requirements listed above.

Related Accounting Programs

- Bachelor of Science in Accounting (p. 1187)
- Accounting minor, UF Online (p. 1191)

Accounting Minor UF Online

The accounting minor is open to all non-accounting students in UF Online, offering a strong foundation in financial and managerial accounting beyond the introductory level.

About this Program

- **College:** Warrington College of Business
- **School:** Fisher School of Accounting (p. 1183)
- **Credits:** 24
- **Contact:** 1.855.99GATOR | 352.273.0200
- **Related Accounting Programs**

With the increasingly interdisciplinary model used by businesses, completion of the minor broadens career opportunities and increases the student's marketability. With careful course selection, completion of the minor will accrue enough accounting credits for students from any major to apply for direct admission to the on-campus Master of Accounting program upon completion of the undergraduate degree.

Required Courses

Code	Title	Credits
ACG 2021	Introduction to Financial Accounting (prereq: sophomore standing) [1]	4
ACG 2071	Introduction to Managerial Accounting	4
ACG 3101	Financial Accounting and Reporting 1 [2]	4
ACG 3401	Business Processes and Accounting Information System [3]	4
ACG 4111	Financial Accounting and Reporting 2 [4]	4
ACG 4341	Cost and Managerial Accounting [5]	4
Total Credits		24

1 Prereq: sophomore standing.

2 Prereq: ACG 2021 and ACG 2071 with minimum grades of B.

3 Prereq: ACG 2021 and ACG 2071 with minimum grades of B; CGS 2531 or ISM 3013.

4 Prereq: ACG 3101 with a minimum grade of C, FIN 3403.

5 Prereq: ACG 3101 and ACG 3401 with minimum grades of C, MAC 2234 and QMB 3250.

Additional Requirements

- All 3000-level and above coursework must be completed at the University of Florida.
- All course and grade prerequisites must be satisfied. Because the prerequisites for some upper-division accounting courses include business courses not included herein, non-business majors typically have to complete additional business courses to complete this minor.
- A minimum grade of C is required for each course in the minor, except for ACG 2021 and ACG 2071, which require a minimum grade of B.

Related Accounting Programs

- Bachelor of Science in Accounting (p. 1187)
- Accounting minor (p. 1191)

Business, Heavener School of

The Heavener School of Business offers an educational experience that is nationally recognized for academic excellence. In addition to pursuing a degree, all business majors are encouraged to gain practical work experience through co-ops, internships and community service. The school also offers a variety of professional development and leadership opportunities.

Contact

Heavener Hall 333
1325 W University Ave
PO Box 117160
Gainesville, FL 32611-7160

352.273.0165

Map (http://campusmap.ufl.edu/?loc=0065) More Info (http://warrington.ufl.edu/sb)

Academic Advising
Heavener Hall 333
352.273.0165

Established

1926. In 2012, named for James W. 'Bill' Heavener, an alumnus whose generous gift benefits the school.

Accredited

The Warrington College of Business is accredited by the AACSB International. The college was the first in the nation to be accredited by the European Foundation for Management Development (EFMD).

Academic Advising and Career Coaching

The Heavener School of Business provides academic advising, career coaching, professional development opportunities and study abroad programs for undergraduate students.
More Info (https://warrington.ufl.edu/undergraduate-current-students/academic-advising) Email (undergraduate.business@ufl.edu)

Programs

The Warrington College of Business has three schools:

- The Hough Graduate School of Business,
- The Fisher School of Accounting, and
- The Heavener School of Business.

The Fisher School of Accounting administers a Bachelor of Science in Accounting (BSAc). The Heavener School of Business administers a Bachelor of Science in Business Administration (on campus), an online Bachelor of Science in Business Administration (off campus) and a Bachelor of Arts in Business Administration. The Heavener School of Business also offers minors in business administration (for nonbusiness majors only), entrepreneurship, information systems and operations management, real estate and retailing.

The table below provides a summary of academic programs in the Heavener School of Business.

The college also offers combined-degree and one-year master's programs in information systems and operations management (MSISOM), entrepreneurship (MAE), finance (MSF), international business (MAIB), management (MSM, for non-business majors only) and real estate (MSRE).

In addition to completing a degree, all business majors are encouraged to gain practical work experience through co-ops, internships and community service. The Heavener School of Business also offers students a variety of professional development and leadership opportunities, including study abroad, the Florida Leadership Academy, involvement in student organizations and research activities. For more details on all of these opportunities, consult an academic advisor in 267 Stuzin Hall.

The school encourages all first year students to take Warrington Welcome - First Year Florida (SLS 1102 for business majors), which serves as an introduction to the school and provides students with the opportunity to connect with faculty, advisors and fellow business students.

Scholarships

The school offers academic and need-based scholarships to business majors and study abroad scholarships to business majors and minors who study abroad via a Heavener School of Business study abroad program. Applications for summer and fall semester scholarships are due in March and applications for spring semester scholarships are due in October.
More Info (https://warrington.ufl.edu/undergraduate-current-students/scholarships)

Student Organizations

The school has more than 20 business-related student organizations that provide direct access to employment recruiters, leadership opportunities, work experience and the means to develop valuable business-related skills. All business majors are encouraged to join at least one business student organization during their college career.
More Info (https://warrington.ufl.edu/undergraduate-current-students/student-organizations)

Helpful Links

- College Website (http://warrington.ufl.edu/undergraduate)
- Combined Degrees (p. 1400)
- Computer Requirement (http://www.it.ufl.edu/policies/student-computing-requirements)
- Dean's List (p. 1385)

Academic Policies

Admission

Freshmen

The university's Office of Admissions (p. 15) coordinates freshman admission.

Transfer Students (On Campus Programs)

The Heavener School of Business makes admission decisions for upper-division transfer applicants who have earned 60 or more college credits. Only applicants with an A.A. or A.S. degree from a Florida public or state college will be considered for admission. Students seeking transfer from other universities or out-of-state schools may be considered for admission on a space-available basis. Transfer students who are admitted by another UF college/school are not eligible for admission to the Heavener School of Business.

Transfer applicants' academic catalog year guarantees their graduation requirements, but not their admission requirements. Admission and preprofessional course and GPA requirements are subject to change without notice for students who are not enrolled in the Heavener School.

Transfer applicants are admitted in the fall, spring and summer C terms. Florida public and state college transfer students are considered for admission if they fulfill all Heavener School transfer admission requirements (https://warrington.ufl.edu/undergraduate-academics/admissions/transfer-admission). Students who do not have a complete application on file by the application deadline (http://www.admissions.ufl.edu/ugrad/trappdates.html) will not be considered for admission and must reapply for a subsequent term. After being admitted, transfer students are required to attend UF's transfer orientation program.

Current UF Students

UF students who matriculated as freshmen can change to a business major if they have a 3.0 UF GPA with no critical-tracking courses completed or a 2.0 UF GPA and a 3.0 critical-tracking GPA. Additionally, students cannot exceed the maximum 130 credits allowed for the degree (excluding AP/IB/AICE/dual enrollment credit). Business majors can change from one business major to another if they are on track and have not completed more than half of their major courses. Upper-division transfer students who are admitted to UF as non-business majors are not eligible for admission to the Heavener School of Business.

Online Business Program (off-campus program)

The school makes admission decisions for the online business program, a degree program designed for individuals who live outside of Gainesville or have work and/or family commitments that make traditional campus attendance unfeasible. To be considered for admission, applicants

must complete an A.A. or A.S. degree (or have earned 60 transferable credits) and fulfill all of the Heavener School online business program admission requirements. Students who are admitted to this program are not permitted to change to another business major unless they meet the transfer admission requirements for the school's on campus degree programs.

Readmission

UF students who have not attended the university for two consecutive terms must apply for readmission and meet all university readmission requirements (p. 19). To be eligible for readmission, students must meet Heavener School critical-tracking GPA and course requirements, have a 2.0 UF GPA and no deficits in the core or major/area of specialization GPA *and* be able to complete a business degree in 130 credits or less. Students who do not meet these requirements should contact an academic advisor.

Non-Degree Registration

An individual who wishes to enroll in the Heavener School as a non-degree-seeking student may do so for the summer term only. Non-degree applicants must meet the school's non-degree registration requirements.

Academic Policies

Academic Advising and Career Coaching

Business majors are expected to register for the proper courses and to fulfill degree requirements in a timely manner. To avoid unnecessary delays in academic progress, students should consult the UF undergraduate catalog to familiarize themselves with university and school policies.

Heavener School academic advisors and career coaches are available to assist students with scheduling, registration, course selection, major changes, career decisions, professional development, study abroad and related matters. Students are encouraged to speak with an academic advisor each semester to ensure they are on track with their academic and career plans.
More Info (https://warrington.ufl.edu/undergraduate-current-students/academic-advising)

Academic Probation

The school closely monitors the academic progress of its students, requiring them to maintain a 2.0 UF, core and major/area of specialization GPA. Students who do not meet these requirements are placed on academic probation for a maximum of two semesters. Students who do not meet the terms of their probation will be prohibited from continuing in a business major.

Dean's List

Business majors who complete 12-14 credits and earn a 3.7 GPA or higher (or 15 credits or more and a 3.5 GPA or higher) in the fall, spring, or summer semester are named to the dean's list. Courses taken S/U (i.e., pass/fail) do not count toward the required credits. Students who make the dean's list will receive a certificate of recognition for their achievement.

Dropping and Adding Courses

The school adheres to all university drop/add policies and deadlines. Students who wish to drop and add a course after the initial drop/add period in the first week of each semester will be fee liable for both courses unless they can provide documentation of administrative error. Students who have used their two lower or upper division drops can petition the school for additional drops if they can document an extenuating circumstance.

Dual Degrees

With approval from an academic advisor, business majors are permitted to earn two UF undergraduate degrees concurrently (one in the Heavener School and one in another college/school, except for Liberal Arts and Sciences - economics). Dual degree students should plan to complete both degrees in eight fall/spring semesters (or four fall/spring semesters for transfer students). Students pursuing dual degrees must complete coursework for both degrees simultaneously, adhere to the academic plan approved by their academic advisor and graduate in the designated semester. Journalism majors are eligible to pursue the Bachelor of Arts in Business Administration - general studies (BABA-GBA) degree only.

Flexible Learning

Business majors must have prior approval from an academic advisor to take flexible learning courses. No more than six credits of flexible learning coursework can be used to fulfill undergraduate degree requirements. Flexible learning courses cannot be taken to fulfill required core, major, area of specialization or restricted elective courses. Students on academic probation are not permitted to take flexible learning courses.

International Study

Business undergraduates are encouraged to study abroad for at least one semester. Students must be in good academic standing and have a 2.5 overall UF GPA (or a minimum 3.0 UF GPA if applying for a Warrington exchange program). Refer to the Heavener School study abroad program for details, scholarship opportunities, and advisor contact information.
More Info (https://warrington.ufl.edu/undergraduate-international-study/outgoing)

Normal Course Load

The school's degree programs are designed for full-time study. Students are encouraged to register for 15 credits and are expected to register for a minimum of 12 credits each fall and spring. Students must petition the Heavener School to take more than 18 credits in a single term.

S/U Grade Option

Business majors can use the S/U grade option for free elective courses only. All other required courses, including critical-tracking, general education, core business, major or area of specialization, and restricted elective courses, must be taken for a letter grade. Students can request to take only one S/U course per term using the S/U grade option, although they can take other pre-established S/U graded courses.

Transfer Coursework

Florida public or state college students who have taken equivalent business core or major courses at another institution will be required to retake the course at UF or petition the Heavener School to take a higher-level course in the same subject area. Additional credits will not be earned when repeating equivalent courses. Waiving a required course does not reduce the total credits required for graduation.

Transient Coursework

With approval from an academic advisor, business majors may take critical-tracking, general education and free elective courses at another accredited institution. Students should refer to the school's guidelines and instructions.

More Info (https://warrington.ufl.edu/undergraduate-current-students/academic-advising/transient-students)

UF students who are in Florida but away from Gainesville have the option to take UF core business courses online in the fall, spring and summer terms.

Degree Requirements

All Heavener School of Business students must complete the following requirements, including the 120 credits required for graduation as calculated by the school. All required courses, excluding free elective courses, must be taken for a letter grade (not S/U). Business majors are strongly encouraged to use their elective requirement to build skills, obtain a minor or certificate and/or develop proficiency in a foreign language.
More Info (p. 1429)

General Education Requirement

Code	Title	Credits
Composition		3
Mathematical Sciences		6
Humanities		9
Social and Behavioral Sciences		9
Physical or Biological Sciences [1]		9
International (N)		3
Diversity (D)		3

[1] 6 credits biological science and 3 credits physical science or vice versa for a total of 9 credits.

A minimum grade of C is required for all courses fulfilling the general education requirement and the writing requirement.

Critical-Tracking Requirement

To prepare for upper-division business courses, all business majors are required to complete a specified number of critical-tracking courses each semester during the first four fall/spring semesters, meet the required critical-tracking GPA for each term and maintain a 2.0 UF GPA (see table below). Finance majors must earn a minimum grade of C in ACG 2021 and ACG 2071.

Heavener School of Business Critical-Tracking Requirements

Semester	Number Critical Tracking Courses	Critical Tracking GPA	UF GPA
1	2	2.5	2.0
2	2	2.75	2.0
3	2 (including ACG 2021)	3.0	2.0
4	1	3.0	2.0

Certain business degree programs require an eighth critical-tracking course in the fifth fall/spring term (or first fall/spring term for upper-division transfer students). Students must earn the required grade in the eighth tracking course to continue in the corresponding major (see table below). The grade earned in this course does not factor into the critical-tracking GPA.

Additional Critical-Tracking Requirements

Major	Eighth Tracking Course	Minimum Grade
General Business (Online)	NA	NA
General Studies	NA	NA
Finance	FIN 3403	B
Information Systems	NA	NA
Management	MAN 3025	C
Marketing	MAR 3023	C

Core Business Requirement

All business majors are required to take the following seven core courses, which cover the major functional areas of business:

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4

Major (BSBA) or Area of Specialization (BABA) Requirement

BSBA students take 12-20 credits of specific major courses. BABA-GBA students take 12 credits of 3000/4000-level area of specialization courses.

Restricted Elective Requirement

All business majors must take 11-12 credits of restricted electives. One electronic platform course (ENT 3003, GEB 3035, ISM 3004 or REE 3043) can be taken to fulfill the restricted elective requirement. Internship, independent study or assistantship credit will not count toward this requirement.

BABA-GBA students take 11-12 credits of restricted *business* electives from an approved list (students pursuing the international studies area of specialization are exempt from this requirement; instead, they must complete a foreign language minor). BSBA students take 11-12 credits of any 3000/4000-level courses or 1000/4000-level foreign language courses.

GPA and Graduation Requirements

A minimum overall UF GPA of 2.0 is required in coursework attempted at the university. Business majors must earn:

- a 3.0 critical-tracking GPA;
- a 2.0 core GPA or minimum grades of C in all seven business core courses; and
- a 2.0 major or area of specialization GPA or minimum grades of C in all major or area of specialization courses.

Business majors must earn a minimum of 120 credits. Heavener School undergraduates who have completed all requirements for degree will be required to graduate. To receive a diploma and participate in commencement, students must complete the UF graduation checklist,

which includes the submission of an online degree application by the established deadline.
More Info (https://commencement.ufl.edu/checklist.html)

Honors Requirements

Heavener School of Business honors designations are based on three grade point averages: business core GPA, major or area of specialization GPA and UF GPA. To graduate with honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext), students must meet the following minimum standards at the time of graduation: cum laude (3.5 GPA), magna cum laude (3.7 GPA) and summa cum laude (3.9 GPA). Students who are pursuing a magna or summa cum laude designation are also required to complete an honors thesis. Each business major has its own specific thesis guidelines (https://warrington.ufl.edu/undergraduate-current-students/graduation). Students who participate in the University Scholars Program can use their required research paper as an honors thesis.

Internship Requirement

Heavener School majors are required to enroll in GEB 4941 and complete an internship of at least 150 hours before the start of the senior year. The internship requirement can be waived for students who participate in a study abroad experience of at least six weeks. Students who waive this requirement via study abroad are strongly encouraged to complete at least one internship to improve their chances of obtaining full-time employment and/or admission to graduate programs or law school. Consult a school academic advisor/career coach for more information.

Professional Communication Requirement

Heavener School majors are required to take GEB 3213, GEB 3218, SPC 2608, ENC 3312 or a similar course with prior approval. A minimum grade of C is required.

Residence Requirements

Students are not allowed to enroll simultaneously at UF and another institution. All business core, major, area of specialization and restricted elective courses must be taken in residence at the University of Florida or as part of an approved study abroad program. The last 30 credits of the degree program must be completed in residence at the University of Florida; however, this requirement will be waived for preapproved study abroad coursework. Otherwise, the residence requirement will be waived only in special cases and must be approved in advance by the school's petitions committee.

Programs

MAJORS

- Business Administration | General Studies | BABA
- Finance
- Information Systems
- Management
- Marketing

MINORS

- Business Administration Minor
- Business Administration Minor UF Online
- Entrepreneurship Minor
- Information Systems Minor
- Real Estate Minor
- Retailing Minor

Undergraduate Degrees

The Heavener School of Business offers Bachelor of Science in Business Administration degrees in finance, general business (for off campus students), information systems, management and marketing and a Bachelor of Arts in Business Administration degree in general studies with an outside area of specialization. All undergraduate degrees require 120 credits and all include universal tracking, general education, business core, major or area of specialization, and restricted elective courses. The degree programs are designed to provide students with a strong foundation in the functional areas of business.

The school encourages all freshmen to take Warrington Welcome: First Year Florida (SLS 1102, for business majors), which serves as an introduction to the school and provides students with the opportunity to connect with faculty, advisors and fellow business students.

Minors and Certificates

Minors in business administration (for nonbusiness majors only), entrepreneurship, information systems, and real estate and a certificate in retailing leadership are available to undergraduate students.

Combined Degrees and One-Year Master's Programs

The Warrington College of Business offers the following combined-degree and one-year master's programs:

- Master of Arts in Business Administration: major in International Business (MAIB),
- Master of Science in Business Administration: concentration in Information Systems and Operations Management (MSISOM),
- Master of Arts in Business Administration: concentration in Entrepreneurship (MAE),
- Master of Science in Finance (MSF), and
- for non-business majors, the Master of Science in Business Administration: major in Management (MSM).

Undergraduates can seek permission to take graduate courses from the graduate coordinator of the appropriate department.
More Info (http://warrington.ufl.edu/academics)

Career and Leadership Programs

Business majors are encouraged to gain practical work experience through co-ops, internships and community service. The school also offers career and leadership programs, including professional development courses, the Florida Leadership Academy, involvement in national and international business case study competitions, student organizations and research options.
More Info (https://warrington.ufl.edu/undergraduate-current-students/career-and-leadership)

International Programs and Study Abroad

To broaden their curriculum, business majors are advised to study abroad, learn a foreign language, pursue the school's Bachelor of Arts in Business Administration: General Studies (BABA-GBA) degree with an area of specialization in international studies, complete an

international or international-related minor or take international courses, and participate in international or multicultural student organizations. More Info (https://warrington.ufl.edu/undergraduate-international-study)

Business Administration Minor

The business administration minor, which can be completed online, provides non-business UF undergraduates with an overview of the major functional elements of business. This minor is not open to business majors.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Credits:** 24 | Completed with an overall 2.0 GPA in the minor and a cumulative 2.0 UF GPA
- **Related Business Administration Programs**

All courses for the minor must be taken for letter grade. All attempts at courses for the minor will be averaged into the minor GPA. All 3000/4000-level courses required for the minor must be taken at UF or via a study abroad program preapproved by the Heavener School of Business. Flexible learning courses will not count toward the minor.

Students who completed BUL 4310, FIN 3403, MAN 3025 or MAR 3023 or its equivalent at another institution can petition the school to take a higher-level course in that discipline to satisfy requirements for the minor.

Required Courses

Code	Title	Credits
ACG 2021	Introduction to Financial Accounting	4
Select two:		8
BUL 4310	The Legal Environment of Business	
ECO 2013	Principles of Macroeconomics	
ECO 2023	Principles of Microeconomics	
FIN 3403	Business Finance	4
MAN 3025	Principles of Management	4
MAR 3023	Principles of Marketing	4
Total Credits		24

Related Business Administration Programs

- Bachelor of Arts in Business Administration (p. 1202)
- Bachelor of Arts in Business Administration, UF Online (p. 1206)
- Bachelor of Science in Business Administration, UF Online (p. 1198)
- Business Administration minor, UF Online (p. 1197)

Business Administration Minor UF Online

The business administration minor provides non-business UF undergraduates with an overview of the major functional elements of business. This minor is not open to business majors.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **Credits:** 24 | Completed with an overall 2.0 GPA in the minor and a cumulative 2.0 UF GPA
- **Contact:** 1.855.99GATOR
- **Related Business Administration Programs**

All courses for the minor must be taken for letter grade. All attempts at courses for the minor will be averaged into the minor GPA. All 3000/4000-level courses required for the minor must be taken at UF or via a study abroad program preapproved by the Heavener School of Business. Flexible learning courses will not count toward the minor.

Students who completed one of the following or its equivalent at another institution can petition the school to take a higher-level course in that discipline to satisfy requirements for the minor.

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
MAN 3025	Principles of Management	4
MAR 3023	Principles of Marketing	4

Required Courses

Code	Title	Credits
ACG 2021	Introduction to Financial Accounting	4
Select two:		8
BUL 4310	The Legal Environment of Business	
ECO 2013	Principles of Macroeconomics	
ECO 2023	Principles of Microeconomics	
FIN 3403	Business Finance	4
MAN 3025	Principles of Management	4
MAR 3023	Principles of Marketing	4
Total Credits		24

Related Business Administration Programs

- Bachelor of Arts in Business Administration (p. 1202)
- Bachelor of Arts in Business Administration, UF Online (p. 1206)
- Bachelor of Science in Business Administration, UF Online (p. 1198)
- Business Administration minor (p. 1197)

Business Administration | General Business | BSBA UF Online

The online Bachelor of Science in Business Administration-General Business (BSBA-IBA ONL) degree program, which provides a broad overview of the functional areas of business, is designed for students who live outside the Gainesville community or have work and/or family commitments that make traditional campus attendance impractical. Students take foundational courses in economics, mathematics, computing skills and accounting; core courses that relate to the basic functions of business, such as finance, management, marketing and operations management; and professional development courses such as business communication and career management.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Degree:** Bachelor of Science in Business Administration
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Business Administration Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The online BSBA program provides a broad academic background in a variety of business disciplines and prepares students for a wide array of business careers and for graduate studies in business.

Requirements for the Major

To graduate with this major, students must complete all university, college and major requirements.

BSBA online students must meet general education requirements and maintain a 2.0 core, major and UF GPA. Students must read the individual course descriptions in this catalog to determine the prerequisites for their required courses. Along with the critical-tracking, general education and writing requirements outlined below, majors take 120 credits.

Code	Title	Credits
Core Business Courses		
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4

MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4
General Business Major Courses		
ENT 3003	Principles of Entrepreneurship	4
GEB 3017	Leading Organizations	4
MAN 4723	Strategic Management	4
MAR 3231	Introduction to Retailing Systems and Management	4
REE 3043	Real Estate Analysis	4
Professional Development Courses		
GEB 3035	Effective Career Management in Business	4
GEB 3219	Writing and Speaking in Business	4
ISM 3004	Computing in the Business Environment	4
Total Credits		60

Related Business Administration Programs

- Bachelor of Arts in Business Administration (p. 1202)
- Bachelor of Arts in Business Administration, UF Online (p. 1206)
- Business Administration minor (p. 1197)
- Business Administration minor, UF Online (p. 1197)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

To remain on track for the major, students must meet the critical-tracking criteria listed below. The critical-tracking GPA is calculated based on all attempts of the critical-tracking courses or their equivalents. After a student receives a minimum grade of C in a critical-tracking course or its equivalent, no higher grade in that course or its equivalent will be used in the calculation of the critical-tracking GPA.

Semester 1

- Complete 1 of the following critical-tracking courses: ACG 2021, ACG 2071, CGS 2531 or ISM 3013, ECO 2013, ECO 2023, MAC 2233, STA 2023
- 2.25 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses for a total of 3 critical-tracking courses
- 2.25 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses (including ACG 2021) for a total of 5 critical-tracking courses
- 2.5 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 7 critical-tracking courses
- 2.5 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Meet all term 1-4 critical-tracking requirements
- 2.0 UF GPA required

Model Semester Plan

This is a sample plan. Students should consult with an academic advisor/career coach to create an individualized academic plan. Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=520201&track=01) may be used for transfer students.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
MAC 1140	Precalculus Algebra (if needed or other elective)	3
	Credits	13
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Gen Ed Biological or Physical Sciences		3
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	16
Semester Three		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	4
Select one:		3-4
CGS 2531	Problem Solving Using Computer Software (**Critical Tracking**; Gen Ed Mathematics)	
ISM 3013	Introduction to Information Systems (**Critical Tracking**)	
Gen Ed Diversity		3
Gen Ed International		4
	Credits	14-15
Semester Four		
ACG 2071	Introduction to Managerial Accounting (**Critical Tracking**)	4
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed Physical Sciences		3
Electives		7
	Credits	17
Semester Five		
ENT 3003	Principles of Entrepreneurship	4
GEB 3035	Effective Career Management in Business	4
MAN 3025	Principles of Management	4
QMB 3250	Statistics for Business Decisions	4
	Credits	16
Semester Six		
FIN 3403	Business Finance	4
GEB 3017	Leading Organizations	4
MAR 3023	Principles of Marketing	4
	Credits	12
Semester Seven		
BUL 4310	The Legal Environment of Business	4
GEB 3219	Writing and Speaking in Business (Gen Ed Composition; Writing Requirement)	4
GEB 3373	International Business	4
ISM 3004	Computing in the Business Environment	4
	Credits	16
Semester Eight		
MAN 4504	Operations and Supply Chain Management	4
MAN 4723	Strategic Management	4
MAR 3231	Introduction to Retailing Systems and Management	4

REE 3043	Real Estate Analysis	4
	Credits	16
	Total Credits	120

Academic Learning Compact

A bachelor's degree in business administration enables students to achieve foundation knowledge in economics, accounting, finance, management, marketing, business law, statistics, operations management, human resource management, information technology and entrepreneurship. Special emphasis is placed on understanding the links between various business disciplines and the development of sound business plans. Students will be able to effectively analyze a business entity's strengths and weaknesses as well as investigate the opportunities and threats present in the business environment.

The major in general business places a special emphasis on understanding the links between various business disciplines and the development of sound business plans. Students will be able to effectively analyze a business entity's strengths and weaknesses as well as investigate the opportunities and threats present in the business environment.

Before Graduating Students Must

- Take the ETS Major Field Test in Business as part of MAN 4504. The ETS exam covers nine content areas in business. The score describes your performance relative to other seniors in business and accounting at 600+ colleges and universities (e.g., top 15% in the nation compared to your peers).
- Complete requirements for the baccalaureate degree, as determined by the faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate knowledge and understanding of elements of economics, financial accounting, marketing, operations management, organizational behavior, business law, information technology, business statistics and social responsibility.
2. Demonstrate proficiency in the use of business-related software applications.
3. Define the ethical responsibilities of business organizations and identify relevant ethical issues.
4. Understand how the business environment, including culture, differs across countries.
5. Possess awareness of cultural differences and how these differences affect business decisions.
6. Identify characteristics and roles of groups and teams.
7. Identify characteristics and roles of managers and leaders.
8. Possess knowledge in an area of specialization outside the disciplines of business and accounting.

Critical Thinking

9. Specify and implement a framework for identifying a business problem and develop alternative solutions and a set of evaluation criteria.
10. Assess the outcomes of a course of action and make appropriate adjustments.

Communication

11. Write business documents clearly, concisely and analytically.
12. Speak in groups and in public clearly, concisely and analytically, with appropriate use of visual aids.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12
ACG 2021	I	R							R	R		
ACG 2071	I	R							R	R		
BUL 4310	I		R, A									
CGS 2531	I	I										
ECO 2013	I			I					I	I		
ECO 2023	I			I					I	I		
FIN 3403	I		R								R, A	
GEB 3213											R, A	
GEB 3218												I, A
GEB 3373	R			R, A	R, A				R	R		

MAN 3025	I		R	I	I	I, A	I, A		R	R		
MAN 4504	I								R, A	R, A	R	R
MAR 3023	I		R, A	R, A	I		I					
QMB 3250	I	R, A							R, A	R, A		
Specialization Area								I, R, A	R	R	R	R
Senior Exam	A			A								

Assessment Types

- Exams, papers and presentations in the following and major-specific courses:

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4

- Writing and public speaking assignments in the following:

Code	Title	Credits
FIN 3403	Business Finance	4
GEB 3213	Professional Writing in Business	3
GEB 3218	Professional Speaking in Business	3

Business Administration | General Studies | BABA

The Bachelor of Arts in Business Administration-General Studies degree provides a broad overview of the functional areas of business with a selected area of specialization. Students take foundation courses in economics, mathematics, computing skills and accounting; core courses that relate to the basic functions of business, such as finance, management, marketing and operations management; and area of specialization courses that focus on a specific topic, such as international studies, mass communication, criminology, science or a foreign language.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Degree:** Bachelor of Arts in Business Administration
- **Credits for Degree:** 120
- **Additional Information**
- **Related Business Administration Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Arts in Business Administration-General Studies (BABA-GBA) degree program allows students to couple a business major with an outside interest. BABA-GBA students can choose from more than 70 areas of specialization that are comprised of courses taught by other UF colleges and departments. The BABA-GBA degree prepares students for a wide variety of business-related careers, for graduate studies in business and for graduate programs related to the area of specialization.

BABA-GBA majors are encouraged to gain practical work experience through internships, student organizations and community service. In addition, the Heavener School of Business offers students a wide variety of academic and career and leadership programs, including study abroad, the Florida Leadership Academy, involvement in student organizations and research activities. Students should consult an academic advisor/career coach for specific information.

Requirements for the Major

BABA-GBA majors must maintain a 2.0 core, area of specialization and UF GPA. Students must read the individual course descriptions in this catalog to determine the prerequisites for their required courses. In addition to the critical-tracking and general education courses outlined below, BABA-GBA majors take 120 credits, including:

Core Courses

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4

Area of Specialization Courses

Complete 12 credits at the 3000/4000 level in a chosen discipline outside the Heavener School of Business

Business Electives

Complete 11-12 credits from a list of approved business electives. Internship, independent study or assistantship credit will not count toward this requirement. Note: Students who are pursuing the international studies area of specialization must complete a foreign language minor in lieu of the business elective requirement.

Professional Communication Course

Code	Title	Credits
Select one:		
GEB 3213	Professional Writing in Business	3
GEB 3218	Professional Speaking in Business	3
SPC 2608	Introduction to Public Speaking	3
ENC 3312	Advanced Argumentative Writing	3
or a similar course with prior approval (requires a minimum grade of C)		

Internship Course

GEB 4941 in conjunction with an internship of at least 150 credits before the start of the senior year. The internship requirement can be waived for students who participate in a study abroad experience of at least six weeks. Students who waive the requirement via study abroad are strongly encouraged to complete at least one internship to improve their chances of obtaining full-time employment and/or admission to graduate programs or law school. Students should consult an academic advisor/career coach for more information.

Related Business Administration Programs

- Bachelor of Arts in Business Administration, UF Online (p. 1206)
- Bachelor of Science in Business Administration, UF Online (p. 1198)
- Business Administration minor (p. 1197)
- Business Administration minor, UF Online (p. 1197)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=520201&track=01) may be used for transfer students.

To remain on track for the BABA-GBA major, students must meet the critical-tracking criteria listed below. The critical-tracking GPA is calculated based on all attempts of the critical-tracking courses or their equivalents. After a student receives a minimum grade of C in a critical-tracking course or its equivalent, no subsequent grade in that course or its equivalent will be used in the calculation of the critical-tracking GPA.

Semester 1

- Complete 1 critical-tracking course from ACG 2021, ACG 2071, CGS 2531 or ISM 3013, ECO 2013, ECO 2023, MAC 2233, STA 2023
- 2.5 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses for a total of 3 critical-tracking courses
- 2.75 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses (including ACG 2021) for a total of 5 critical-tracking courses
- 3.0 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 7 critical-tracking courses
- 3.0 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Meet all semester 1-4 critical-tracking requirements
- 2.0 UF GPA required (and maintained through semester 8)

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Elective [1]		3
	Credits	13
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Biological or Physical Sciences		3
Gen Ed Composition; Writing Requirement		3
	Credits	16
Semester Three		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	4
Select one:		3-4
CGS 2531	Problem Solving Using Computer Software (**Critical Tracking**; Gen Ed Mathematics)	
ISM 3013	Introduction to Information Systems (**Critical Tracking**)	
State Core Gen Ed Composition (p. 23)		3
Gen Ed Diversity		3
Gen Ed International		3
	Credits	16-17
Semester Four		
ACG 2071	Introduction to Managerial Accounting (**Critical Tracking**)	4
GEB 4941	Internship in Business Administration (complete by beginning of senior year)	1
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Select one professional communication course:		3
GEB 3213	Professional Writing in Business	
GEB 3218	Professional Speaking in Business	
SPC 2608	Introduction to Public Speaking	

ENC 3312	Advanced Argumentative Writing	
Electives		4
	Credits	15
Semester Five		
MAN 3025	Principles of Management (Gen Ed Social and Behavioral Sciences)	4
QMB 3250	Statistics for Business Decisions	4
Area of specialization course		3
Electives		4
	Credits	15
Semester Six		
FIN 3403	Business Finance	4
MAR 3023	Principles of Marketing	4
Area of specialization course		3
Business elective		4
	Credits	15
Semester Seven		
BUL 4310	The Legal Environment of Business	4
GEB 3373	International Business	4
Area of specialization course		3
Business elective		4
	Credits	15
Semester Eight		
MAN 4504	Operations and Supply Chain Management	4
Area of specialization course		3
Business elective		4
Electives		4
	Credits	15
	Total Credits	120

[1] MAC 1140, if needed.

Academic Learning Compact

A bachelor's degree in business administration enables students to achieve foundation knowledge in economics, accounting, finance, management, marketing, business law, statistics, operations management, human resource management, information technology and entrepreneurship. Special emphasis is placed on understanding the links between various business disciplines and the development of sound business plans. Students will be able to effectively analyze a business entity's strengths and weaknesses as well as investigate the opportunities and threats present in the business environment.

The Bachelor of Arts in Business Administration combines core business courses with area of specialization courses offered by departments outside the college of business.

Before Graduating Students Must

- Take the ETS Major Field Test in Business as part of MAN 4504. The ETS exam covers nine content areas in business. The score describes your performance relative to other seniors in business and accounting at 600+ colleges and universities (e.g., top 15% in the nation compared to your peers).
- Complete requirements for the baccalaureate degree, as determined by the faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate knowledge and understanding of elements of economics, financial accounting, marketing, operations management, organizational behavior, business law, information technology, business statistics and social responsibility.
2. Demonstrate proficiency in the use of business-related software applications.
3. Define the ethical responsibilities of business organizations and identify relevant ethical issues.
4. Understand how the business environment, including culture, differs across countries.
5. Possess awareness of cultural differences and how these differences affect business decisions.
6. Identify characteristics and roles of groups and teams.

7. Identify characteristics and roles of managers and leaders.
8. Possess knowledge in an area of specialization outside the disciplines of business and accounting.

Critical Thinking

9. Specify and implement a framework for identifying a business problem and develop alternative solutions and a set of evaluation criteria.
10. Assess the outcomes of a course of action and make appropriate adjustments.

Communication

11. Write business documents clearly, concisely and analytically.
12. Speak in groups and in public clearly, concisely and analytically, with appropriate use of visual aids.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12
ACG 2021	I	R							R	R		
ACG 2071	I	R							R	R		
BUL 4310	I		R, A									
CGS 2531	I	I										
ECO 2013	I			I					I	I		
ECO 2023	I			I					I	I		
FIN 3403	I		R								R, A	
GEB 3213											R, A	
GEB 3218												I, A
GEB 3373	R			R, A	R, A				R	R		
MAN 3025	I		R	I	I	I, A	I, A		R	R		
MAN 4504	I								R, A	R, A	R	R
MAR 3023	I		R, A	R, A	I		I					
QMB 3250	I	R, A							R, A	R, A		
Specialization Area								I, R, A	R	R	R	R
Senior Exam	A			A								

Assessment Types

- Exams, papers and presentations in the following and major-specific courses:

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4

- Writing and public speaking assignments in the following:

Code	Title	Credits
FIN 3403	Business Finance	4
GEB 3213	Professional Writing in Business	3
GEB 3218	Professional Speaking in Business	3

Business Administration | General Studies | BABA UF Online

The UF Online Bachelor of Arts in Business Administration-General Studies degree provides a broad overview of the functional areas of business with a selected area of specialization. Students take foundation courses in economics, mathematics, computing skills and accounting; core courses that

relate to the basic functions of business, such as finance, management, marketing and operations management; and area of specialization courses that focus on a specific topic, such as general business, mass communication, sociology, or sport management.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Degree:** Bachelor of Arts in Business Administration
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Business Administration Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Arts in Business Administration-General Studies (BABA-GBAONL) degree program allows students to couple a business major with an outside interest. BABA-GBAONL students can choose an area of specialization (https://warrington.ufl.edu/undergraduate-academics/general-studies) which is comprised of courses taught by the Heavener School of Business or another UF department. The BABA-GBAONL degree prepares students for a wide variety of business-related careers, for graduate studies in business and for graduate programs related to the area of specialization.

BABA-GBAONL majors are encouraged to gain practical work experience through internships, research activities, student organizations and community service and to study abroad. Students should consult an academic advisor/career coach for specific information.

Requirements for the Major

BABA-GBAONL majors must maintain a 2.0 core, area of specialization and UF GPA. Students must read the individual course descriptions in this catalog to determine the prerequisites for their required courses. In addition to the critical-tracking and general education courses outlined below, BABA-GBAONL majors take 120 credits.

Code	Title	Credits
Core Courses		
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4
Area of Specialization		
3000/4000-level courses in a chosen discipline		12
Business Electives		
Approved business electives (Internship, independent study or assistantship credit will not count toward this requirement)		11-12
Professional Communication		
Select one:		3-4
GEB 3219	Writing and Speaking in Business	
SPC 2608	Introduction to Public Speaking	
Similar course with prior approval (requires a minimum grade of C)		
Internship		
GEB 4941	Internship in Business Administration (in conjunction with an internship of at least 150 hours) [1]	1
Total Credits		55-57

[1] The internship requirement can be waived for students who participate in a study abroad experience of at least six weeks. Students who waive the requirement via study abroad are strongly encouraged to complete at least one internship to improve their chances of obtaining full-time employment and/or admission to graduate programs or law school. Students should consult an academic advisor/career coach for more information.

Related Business Administration Programs

- Bachelor of Arts in Business Administration (p. 1202)
- Bachelor of Science in Business Administration, UF Online (p. 1198)
- Business Administration minor (p. 1197)
- Business Administration minor, UF Online (p. 1197)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=520201&track=01) may be used for transfer students.

To remain on track for the BABA-GBAONL major, students must meet the critical-tracking criteria listed below. The critical-tracking GPA is calculated based on all attempts of the critical-tracking courses or their equivalents. After a student receives a minimum grade of C in a critical-tracking course or its equivalent, no subsequent grade in that course or its equivalent will be used in the calculation of the critical-tracking GPA.

Semester 1

- Complete 1 critical-tracking course from ACG 2021, ACG 2071, ISM 3013, ECO 2013, ECO 2023, MAC 2233, STA 2023
- 2.5 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses for a total of 3 critical-tracking courses
- 2.75 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses (including ACG 2021) for a total of 5 critical-tracking courses
- 3.0 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 7 critical-tracking courses
- 3.0 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Meet all semester 1-4 critical-tracking requirements
- 2.0 UF GPA required (and maintained through semester 8)

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Students should consult with an academic advisor/career coach to create an individualized academic plan.

Course	Title	Credits
Semester One		
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
MAC 1140	Precalculus Algebra (if needed or other elective)	3
	Credits	13
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Composition (Writing Requirement)		3
State Core Gen Ed Humanities (p. 23)		3
	Credits	16

Semester Three		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	4
ISM 3013	Introduction to Information Systems (**Critical Tracking**)	4
State Core Gen Ed Composition (p. 23)		3
Gen Ed Diversity		3
Gen Ed International		3
	Credits	17
Semester Four		
ACG 2071	Introduction to Managerial Accounting (**Critical Tracking**)	4
GEB 4941	Internship in Business Administration	1
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Select one professional communication course:		3
GEB 3219	Writing and Speaking in Business	
SPC 2608	Introduction to Public Speaking	
ENC 3254	Professional Writing in the Discipline	
Electives		4
	Credits	15
Semester Five		
MAN 3025	Principles of Management (Gen Ed Social and Behavioral Sciences)	4
QMB 3250	Statistics for Business Decisions	4
Area of specialization course		3
Electives		4
	Credits	15
Semester Six		
FIN 3403	Business Finance	4
MAR 3023	Principles of Marketing	4
Area of specialization course		3-4
Business elective		4
	Credits	15-16
Semester Seven		
BUL 4310	The Legal Environment of Business	4
GEB 3373	International Business	4
Area of specialization course		3-4
Business elective		4
	Credits	15-16
Semester Eight		
MAN 4504	Operations and Supply Chain Management	4
Area of specialization course		3-4
Select one business elective		4
Elective		3-4
	Credits	14-16
	Total Credits	120

Academic Learning Compact

A bachelor's degree in business administration enables students to achieve foundation knowledge in economics, accounting, finance, management, marketing, business law, statistics, operations management, human resource management, information technology and entrepreneurship. Special emphasis is placed on understanding the links between various business disciplines and the development of sound business plans. Students will be able to effectively analyze a business entity's strengths and weaknesses as well as investigate the opportunities and threats present in the business environment.

The Bachelor of Arts in Business Administration combines core business courses with area of specialization courses offered by departments outside the college of business.

Before Graduating Students Must

- Take the ETS Major Field Test in Business as part of MAN 4504. The ETS exam covers nine content areas in business. The score describes your performance relative to other seniors in business and accounting at 600+ colleges and universities (e.g., top 15% in the nation compared to your peers).
- Complete requirements for the baccalaureate degree, as determined by the faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate knowledge and understanding of elements of economics, financial accounting, marketing, operations management, organizational behavior, business law, information technology, business statistics and social responsibility.
2. Demonstrate proficiency in the use of business-related software applications.
3. Define the ethical responsibilities of business organizations and identify relevant ethical issues.
4. Understand how the business environment, including culture, differs across countries.
5. Possess awareness of cultural differences and how these differences affect business decisions.
6. Identify characteristics and roles of groups and teams.
7. Identify characteristics and roles of managers and leaders.
8. Possess knowledge in an area of specialization outside the disciplines of business and accounting.

Critical Thinking

9. Specify and implement a framework for identifying a business problem and develop alternative solutions and a set of evaluation criteria.
10. Assess the outcomes of a course of action and make appropriate adjustments.

Communication

11. Write business documents clearly, concisely and analytically.
12. Speak in groups and in public clearly, concisely and analytically, with appropriate use of visual aids.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12
ACG 2021	I	R							R	R		
ACG 2071	I	R							R	R		
BUL 4310	I		R, A									
CGS 2531	I	I										
ECO 2013	I			I					I	I		
ECO 2023	I			I					I	I		
FIN 3403	I		R								R, A	
GEB 3213											R, A	
GEB 3218												I, A
GEB 3373	R			R, A	R, A				R	R		
MAN 3025	I		R	I	I	I, A	I, A		R	R		
MAN 4504	I								R, A	R, A	R	R
MAR 3023	I		R, A	R, A	I		I					
QMB 3250	I	R, A							R, A	R, A		
Specialization Area								I, R, A	R	R	R	R
Senior Exam	A			A								

Assessment Types

- Exams, papers and presentations in the following and major-specific courses:

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4

- Writing and public speaking assignments in the following:

Code	Title	Credits
FIN 3403	Business Finance	4
GEB 3213	Professional Writing in Business	3
GEB 3218	Professional Speaking in Business	3

Entrepreneurship Minor

This minor provides all interested undergraduates with a robust set of entrepreneurship courses and experiential learning activities from which to master the core entrepreneurial competencies required to create or work in new ventures.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Credits:** 17-19 | Completed with an overall 2.0 GPA in the minor and a cumulative 2.0 UF GPA

All courses for the minor must be taken for letter grade. All attempts at courses for the minor will be averaged into the minor GPA. All 3000/4000-level courses required for the minor must be taken at UF or via a study abroad program preapproved by the Heavener School of Business. UF flexible learning courses will not count toward the minor.

To declare the minor, students must first complete ACG 2021 with a minimum grade of C and ENT 3003 with a minimum grade of B.

Required Courses

Code	Title	Credits
ACG 2021	Introduction to Financial Accounting	4
ENT 3003	Principles of Entrepreneurship	4
ENT 4614	Creativity and Innovation in the Business Environment	2
ENT 4940	Entrepreneurship Practicum	1
ENT 4934	Special Topics (Business Plan Laboratory)	2
Select a minimum of two:		4-6
Any 3000/4000-level entrepreneurship courses beyond ENT 3003		
MAR 4832	New Product Development and Management	
Total Credits		17-19

Finance

The Bachelor of Science in Business Administration-Finance (BSBA–FIN) degree program provides a broad overview of the functional areas of business with an emphasis in finance. Students take foundation courses in economics, mathematics, computing skills and accounting; core courses that relate to the basic functions of business, such as finance, management, marketing and operations management; and major courses that develop students' financial decision-making skills.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Degree:** Bachelor of Science in Business Administration
- **Credits for Degree:** 120
- **Additional Information**
- **Related Finance Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Science in Business Administration-Finance (BSBA-FIN) degree program focuses on the acquisition and management of funds by businesses, financial markets, security analysis and valuation, management of financial institutions, interest rates, investments and securities, financial risk management, security trading, government policy and financial markets, financial forecasting, capital structure, venture capital and security issuance. The finance curriculum prepares students for careers in corporate financial management and the financial services industry. Finance graduates can also pursue graduate studies in business, law and public administration.

BSBA-FIN majors are encouraged to gain practical work experience through internships, student organizations and community service. In addition, the Heavener School of Business offers students a wide variety of academic and career and leadership programs, including study abroad, the Florida

Leadership Academy, involvement in student organizations and research activities. Students should consult an academic advisor/career coach for specific information.

Requirements for the Major

BSBA-FIN majors must maintain a 2.0 core, major and UF GPA. Students must read the individual course descriptions in this catalog to determine the prerequisites for their required courses. In addition to the critical-tracking and general education courses outlined below, BSBA-FIN majors must take 120 credits, including:

Code	Title	Credits
Core Courses		
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4
Major Courses		
ACG 3101	Financial Accounting and Reporting 1	4
ACG 4111	Financial Accounting and Reporting 2	4
FIN 4243	Debt and Money Markets	4
FIN 4414	Financial Management	4
FIN 4504	Equity and Capital Markets	4
Restricted Elective Courses		
Any 3000/4000-level courses or 1000/4000-level foreign language courses [1]		11-12
Professional Communication Course		
Select one (requires a minimum grade of C):		
GEB 3213	Professional Writing in Business	
GEB 3218	Professional Speaking in Business	
SPC 2608	Introduction to Public Speaking	
ENC 3312	Advanced Argumentative Writing	
A similar course with prior approval		
Internship Course		
GEB 4941	Internship in Business Administration [2]	1
Total Credits		60-61

1 One electronic platform course (ENT 3003, GEB 3035, ISM 3004 or REE 3043) can be taken to fulfill the restricted elective requirement. Internship, independent study or assistantship credit will not count toward this requirement.

2 GEB 4941 (one credit) in conjunction with an internship of at least 150 credits before the start of the senior year. The internship requirement can be waived for students who participate in a study abroad experience of at least six weeks. Students who waive the requirement via study abroad are strongly encouraged to complete at least one internship to improve their chances of obtaining full-time employment and/or admission to graduate programs or law school. Students should consult an academic advisor/career coach for more information.

Related Finance Programs

- Combined Degree (p. 1400)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=520801&track=01) may be used for transfer students.

To remain on track for the BSBA-FIN major, students must meet the critical-tracking criteria, including earning a minimum grade of B in ACG 2021 and ACG 2071 and a minimum grade of B in FIN 3403. The critical-tracking GPA is calculated based on all attempts of the critical-tracking courses or their equivalents. After a student receives a minimum grade of C in a critical-tracking course or its equivalent, no subsequent grade in that course or its equivalent will be used in the calculation of the critical-tracking GPA.

Semester 1

- Complete 2 critical-tracking courses from ACG 2021, ACG 2071, CGS 2531 or ISM 3013, ECO 2013, ECO 2023, MAC 2233, MAC 2234, STA 2023
- 2.5 GPA on all attempts of critical-tracking courses, excluding FIN 3403
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses for a total of 4 critical-tracking courses
- 2.75 GPA on all attempts of critical-tracking courses, excluding FIN 3403
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses (including ACG 2021) for a total of 6 critical-tracking courses
- Complete ACG 2021 with a minimum grade of B
- 3.0 GPA on all attempts of critical-tracking courses, excluding FIN 3403
- 2.0 UF GPA required

Semester 4

- Complete 8 of the 9 critical-tracking courses, excluding FIN 3403
- Complete ACG 2071 with a minimum grade of B
- 3.0 GPA on all attempts of critical-tracking courses, excluding FIN 3403
- 2.0 UF GPA required

Semester 5

- Complete FIN 3403 with a minimum grade of B
- Meet all semester 1-4 critical-tracking requirements
- 2.0 UF GPA required and maintained through semester 8

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
	Credits	13
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
MAC 2234	Survey of Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	3
State Core Gen Ed Humanities (p. 23)		3
Gen Ed Biological or Physical Sciences		3
Gen Ed Composition; Writing Requirement		3
	Credits	16
Semester Three		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**; minimum grade of B required)	4
Select one:		3-4
CGS 2531	Problem Solving Using Computer Software (**Critical Tracking**)	
ISM 3013	Introduction to Information Systems (**Critical Tracking**)	
State Core Gen Ed Composition (p. 23)		3
Gen Ed Diversity		3

Gen Ed International		3
	Credits	16-17
Semester Four		
ACG 2071	Introduction to Managerial Accounting (**Critical Tracking**; minimum grade of B required)	4
GEB 4941	Internship in Business Administration (complete by beginning of senior year)	1
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Select one:		3
GEB 3213	Professional Writing in Business	
GEB 3218	Professional Speaking in Business	
SPC 2608	Introduction to Public Speaking	
ENC 3312	Advanced Argumentative Writing	
Electives		4
	Credits	15
Semester Five		
FIN 3403	Business Finance (**Critical Tracking**; minimum grade of B required)	4
MAN 3025	Principles of Management (Gen Ed Social and Behavioral Sciences)	4
QMB 3250	Statistics for Business Decisions	4
Restricted electives		4
	Credits	16
Semester Six		
FIN 4243	Debt and Money Markets	4
BUL 4310	The Legal Environment of Business	4
MAR 3023	Principles of Marketing	4
ACG 3101	Financial Accounting and Reporting 1	4
	Credits	16
Semester Seven		
ACG 4111	Financial Accounting and Reporting 2	4
FIN 4504	Equity and Capital Markets	4
GEB 3373	International Business	4
Restricted electives		4
	Credits	16
Semester Eight		
FIN 4414	Financial Management	4
MAN 4504	Operations and Supply Chain Management	4
Restricted electives		4
	Credits	12
	Total Credits	120

Academic Learning Compact

A bachelor's degree in business administration enables students to achieve foundation knowledge in economics, accounting, finance, management, marketing, business law, statistics, operations management, human resource management, information technology and entrepreneurship. Special emphasis is placed on understanding the links between various business disciplines and the development of sound business plans. Students will be able to effectively analyze a business entity's strengths and weaknesses as well as investigate the opportunities and threats present in the business environment.

The finance major covers the basics of financial statements, working capital management, capital budgeting decisions, the types of securities available to investors, and the risk/return attributes of those securities as well as factors affecting pricing.

Before Graduating Students Must

- Take the ETS Major Field Test in Business as part of MAN 4504. The ETS exam covers nine content areas in business. The score describes your performance relative to other seniors in business and accounting at 600+ colleges and universities (e.g., top 15% in the nation compared to your peers).
- Complete requirements for the baccalaureate degree, as determined by the faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate knowledge and understanding of elements of economics, financial accounting, marketing, operations management, organizational behavior, business law, information technology, business statistics and social responsibility.

2. Demonstrate proficiency in the use of business-related software applications.
3. Define the ethical responsibilities of business organizations and identify relevant ethical issues.
4. Understand how the business environment, including culture, differs across countries.
5. Possess awareness of cultural differences and how these differences affect business decisions.
6. Identify characteristics and roles of groups and teams.
7. Identify characteristics and roles of managers and leaders.
8. Possess knowledge in an area of specialization outside the disciplines of business and accounting.

Critical Thinking

9. Specify and implement a framework for identifying a business problem and develop alternative solutions and a set of evaluation criteria.
10. Assess the outcomes of a course of action and make appropriate adjustments.

Communication

11. Write business documents clearly, concisely and analytically.
12. Speak in groups and in public clearly, concisely and analytically, with appropriate use of visual aids.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12
ACG 2021	I	R							R	R		
ACG 2071	I	R							R	R		
BUL 4310	I		R, A									
CGS 2531	I	I										
ECO 2013	I			I					I	I		
ECO 2023	I			I					I	I		
FIN 3403	I		R								R, A	
GEB 3213											R, A	
GEB 3218												I, A
GEB 3373	R			R, A	R, A				R	R		
MAN 3025	I		R	I	I	I, A	I, A		R	R		
MAN 4504	I								R, A	R, A	R	R
MAR 3023	I		R, A	R, A	I		I					
QMB 3250	I	R, A							R, A	R, A		
Specialization Area								I, R, A	R	R	R	R
Senior Exam	A			A								

Assessment Types

- Exams, papers and presentations in the following:

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4
Major-specific courses		

- Writing and public speaking assignments in the following:

Code	Title	Credits
FIN 3403	Business Finance	4
GEB 3213	Professional Writing in Business	3
GEB 3218	Professional Speaking in Business	3

Information Systems

The Bachelor of Science in Business Administration–Information Systems (BSBA-IST) degree program provides a broad overview of the functional areas of business with an emphasis in information systems. Students take foundation courses in economics, mathematics, computing skills and accounting; core courses that relate to the basic functions of business, such as finance, management, marketing and operations management; and major courses that focus on the computing, quantitative and application skills that are vital to a business problem-solving setting.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Degree:** Bachelor of Science in Business Administration
- **Credits for Degree:** 120
- **Additional Information**
- **Related Information Systems Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Science in Business Administration–Information Systems (BSBA-IST) degree program is designed for students who are interested in information systems, information technology and supply chain management. The information systems curriculum prepares students for positions as decision support specialists, information systems specialists and systems analysts. Graduates of this program can pursue graduate studies in information systems, operations management, supply chain management or business.

BSBA-IST majors are encouraged to gain practical work experience through internships, student organizations and community service. In addition, the Heavener School of Business offers students a wide variety of academic and career and leadership programs, including study abroad, the Florida Leadership Academy, involvement in student organizations (http://warrington.ufl.edu/undergraduate/myheavener/organizations.asp) and research activities. Students should consult an academic advisor/career coach for specific information.

Requirements for the Major

BSBA-IST majors must maintain a 2.0 core, major and UF GPA. Students must read the individual course descriptions in this catalog to determine the prerequisites for their required courses. In addition to the critical-tracking and general education courses outlined below, BSBA-IST majors must take 120 credits, including:

Code	Title	Credits
Core Courses		
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4
Major Courses		
ISM 3254	Business Systems 1	2
ISM 3255	Business Systems 2	2
ISM 4113	Business Systems Design and Applications	2
ISM 4210	Database Management	2
ISM 4220	Business Data Communications 1	2
ISM 4330	Information Systems and Operations Strategy	2
QMB 4701	Managerial Operations Analysis 1	2
QMB 4702	Managerial Operations Analysis 2	2
Restricted Elective Courses		
Any 3000/4000-level courses or 1000/4000-level foreign language courses. [1]		11-12
Professional Communication Course		
Select one:		3
GEB 3213	Professional Writing in Business	
GEB 3218	Professional Speaking in Business	
SPC 2608	Introduction to Public Speaking	
ENC 3312	Advanced Argumentative Writing	
Or a similar course with prior approval (requires a minimum grade of C)		
Internship Course		

GEB 4941	Internship in Business Administration (in conjunction with an internship of at least 150 credits before the start of the senior year.) [2]	1
Total Credits		59-60

1 One electronic platform course (ENT 3003, GEB 3035, ISM 3004 or REE 3043) can be taken to fulfill the restricted elective requirement. Internship, independent study or assistantship credit will not count toward this requirement.

2 The internship requirement can be waived for students who participate in a study abroad experience of at least six weeks. Students who waive the requirement via study abroad are strongly encouraged to complete at least one internship to improve their chances of obtaining full-time employment and/or admission to graduate programs or law school. Students should consult an academic advisor/career coach for more information.

Related Information Systems Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Information Systems minor (p. 1220)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=521301&track=01) may be used for transfer students.

To remain on track for the BSBA-IST major, students must meet the critical-tracking criteria listed below. The critical-tracking GPA is calculated based on all attempts of the critical-tracking courses or their equivalents. After a student receives a minimum grade of C in a critical-tracking course or its equivalent, no subsequent grade in that course or its equivalent will be used in the calculation of the critical-tracking GPA.

Semester 1

- Complete 1 critical-tracking course from ACG 2021, ACG 2071, CGS 2531 or ISM 3013, ECO 2013, ECO 2023, MAC 2233, STA 2023
- 2.5 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses for a total of 3 critical-tracking courses
- 2.75 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses (including ACG 2021) for a total of 5 critical-tracking courses
- 3.0 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all 7 critical-tracking courses
- 3.0 GPA on all attempts of critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Meet all semester 1-4 critical-tracking requirements
- 2.0 UF GPA required (and maintained through semester 8)

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Composition; Writing Requirement		3
MAC 1140	Precalculus Algebra (if needed; or elective)	3
	Credits	13
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Diversity		3
	Credits	16
Semester Three		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	4
Select one:		3-4
CGS 2531	Problem Solving Using Computer Software (**Critical Tracking**; Gen Ed Mathematics)	
ISM 3013	Introduction to Information Systems (**Critical Tracking**)	
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Humanities (p. 23)		3
Elective		2
	Credits	15-16
Semester Four		
ACG 2071	Introduction to Managerial Accounting (**Critical Tracking**)	4
GEB 4941	Internship in Business Administration (complete by beginning of senior year)	1
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed International		3
Select one professional communication course:		3
GEB 3213	Professional Writing in Business	
GEB 3218	Professional Speaking in Business	
SPC 2608	Introduction to Public Speaking	
ENC 3312	Advanced Argumentative Writing	
Elective		1
	Credits	15
Semester Five		
MAN 3025	Principles of Management (Gen Ed Social and Behavioral Sciences)	4
QMB 3250	Statistics for Business Decisions	4
QMB 4701	Managerial Operations Analysis 1	2
QMB 4702	Managerial Operations Analysis 2	2
Restricted elective		3
	Credits	15
Semester Six		
FIN 3403	Business Finance	4
ISM 3254	Business Systems 1	2
ISM 3255	Business Systems 2	2
MAR 3023	Principles of Marketing	4
Elective		3
	Credits	15
Semester Seven		
BUL 4310	The Legal Environment of Business	4
GEB 3373	International Business	4
ISM 4113	Business Systems Design and Applications	2
ISM 4210	Database Management	2
Restricted elective		4
	Credits	16
Semester Eight		
ISM 4220	Business Data Communications 1	2
ISM 4330	Information Systems and Operations Strategy	2
MAN 4504	Operations and Supply Chain Management	4

Restricted elective		4
Elective		3
	Credits	15
	Total Credits	120

Academic Learning Compact

A bachelor's degree in business administration enables students to achieve foundational knowledge in economics, accounting, finance, management, marketing, business law, statistics, operations management, human resource management, information technology and entrepreneurship. Special emphasis is placed on understanding the links between various business disciplines and the development of sound business plans. Students will be able to effectively analyze a business entity's strengths and weaknesses as well as investigate the opportunities and threats present in the business environment.

The information systems major covers computing, quantitative and application skills that can be used in a business problem-solving setting. Specific skill sets include database design, systems analysis and design, application of decisions support systems and the application of information systems strategies.

Before Graduating Students Must

- Take the ETS Major Field Test in Business as part of MAN 4504. The ETS exam covers nine content areas in business. The score describes your performance relative to other seniors in business and accounting at 600+ colleges and universities (e.g., top 15% in the nation compared to your peers).
- Complete requirements for the baccalaureate degree, as determined by the faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate knowledge and understanding of elements of economics, financial accounting, marketing, operations management, organizational behavior, business law, information technology, business statistics and social responsibility.
2. Demonstrate proficiency in the use of business-related software applications.
3. Define the ethical responsibilities of business organizations and identify relevant ethical issues.
4. Understand how the business environment, including culture, differs across countries.
5. Possess awareness of cultural differences and how these differences affect business decisions.
6. Identify characteristics and roles of groups and teams.
7. Identify characteristics and roles of managers and leaders.
8. Possess knowledge in an area of specialization outside the disciplines of business and accounting.

Critical Thinking

9. Specify and implement a framework for identifying a business problem and develop alternative solutions and a set of evaluation criteria.
10. Assess the outcomes of a course of action and make appropriate adjustments.

Communication

11. Write business documents clearly, concisely and analytically.
12. Speak in groups and in public clearly, concisely and analytically, with appropriate use of visual aids.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12
ACG 2021	I	R							R	R		
ACG 2071	I	R							R	R		
BUL 4310	I		R, A									
CGS 2531	I	I										
ECO 2013	I			I					I	I		
ECO 2023	I			I					I	I		
FIN 3403	I		R								R, A	
GEB 3213											R, A	
GEB 3218												I, A

GEB 3373	R			R, A	R, A				R	R		
MAN 3025	I		R	I	I	I, A	I, A		R	R		
MAN 4504	I								R, A	R, A	R	R
MAR 3023	I		R, A	R, A	I		I					
QMB 3250	I	R, A							R, A	R, A		
Specialization Area								I, R, A	R	R	R	R
Senior Exam	A			A								

Assessment Types

- Exams, papers and presentations in major-specific courses and the following:

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4

- Writing and public speaking assignments in the following:

Code	Title	Credits
FIN 3403	Business Finance (writing)	4
GEB 3213	Professional Writing in Business	3
GEB 3218	Professional Speaking in Business	3

Information Systems Minor

The information systems minor provides undergraduates with a major in business or accounting with an overview of the computing, quantitative, and application skills that are vital to a business problem-solving setting.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Credits:** 17 | Completed with a 2.0 GPA in the minor and a 2.0 cumulative UF GPA
- **Related Information Systems Programs**

This minor is only open to undergraduate students majoring in business or accounting.

All courses for the minor must be taken for letter grade. All attempts at courses for the minor will be averaged into the minor GPA. All 3000/4000-level courses required for the minor must be taken at UF or via a study abroad program that is pre-approved by the Heavener School of Business. Flexible learning courses will not count toward the minor.

Required Courses

Code	Title	Credits
ISM 3013	Introduction to Information Systems	4
ISM 4113	Business Systems Design and Applications	2
ISM 4210	Database Management	2
ISM 4220	Business Data Communications 1	2
MAC 2233	Survey of Calculus 1	3
Approved electives		4
Total Credits		17

Approved Electives

Code	Title	Credits
ISM 3254	Business Systems 1	2
ISM 3255	Business Systems 2	2
ISM 4330	Information Systems and Operations Strategy	2
QMB 4701	Managerial Operations Analysis 1	2
QMB 4702	Managerial Operations Analysis 2	2

Related Information Systems Programs

- Bachelor of Science in Business Administration, Information Systems (p. 1216)

Management

The Bachelor of Science in Business Administration-Management (BSBA-MGT) degree program provides a broad overview of the functional areas of business with an emphasis in management. Students take foundation courses in economics, mathematics, computing skills and accounting; core courses that relate to the basic functions of business, such as finance, management, marketing and operations management; and major courses that focus on the behavioral and organizational problems of management.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Degree:** Bachelor of Science in Business Administration
- **Credits for Degree:** 120
- **Additional Information**
- **Related Management Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The BSBA-MGT curriculum focuses on the structure and behavior of organizations, the management of human resources, and the creation, use and evaluation of strategies that help organizations achieve competitive advantages. The BSBA-MGT degree prepares students for a broad range of occupations in virtually every sector of the economy. Graduates can also pursue graduate studies in business, hospital administration, urban and regional planning and the social sciences.

BSBA-MGT majors are encouraged to gain practical work experience through internships, student organizations and community service. In addition, the Heavener School of Business offers students a wide variety of academic and career and leadership programs, including study abroad, the Florida Leadership Academy, involvement in student organizations and research activities. Students should consult an academic advisor/career coach for specific information.

Requirements for the Major

BSBA-MGT majors must maintain a 2.0 core, major and UF GPA. Students must read the individual course descriptions in this catalog to determine the prerequisites for their required courses. In addition to the critical-tracking and general education courses outlined below, BSBA-MGT majors must take 120 credits, including:

Code	Title	Credits
Core Courses		
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4
Major Courses		
MAN 3240	Organizations: Structure and Behavior	4
MAN 4301	Human Resource Management	4
MAN 4723	Strategic Management	4
3000/4000-level MAN or BUL elective course(s)		4
Restricted Elective Courses		
Any 3000/4000-level courses or 1000/4000-level foreign language courses [1]		11-12
One electronic platform course can be taken to fulfill the restricted elective requirement:		

ENT 3003	Principles of Entrepreneurship	
GEB 3035	Effective Career Management in Business	
ISM 3004	Computing in the Business Environment	
REE 3043	Real Estate Analysis	
Professional Communication Course		
Select one: [2]		3
GEB 3213	Professional Writing in Business	
GEB 3218	Professional Speaking in Business	
SPC 2608	Introduction to Public Speaking	
ENC 3312	Advanced Argumentative Writing	
A similar course with prior approval		
Internship Course		
GEB 4941	Internship in Business Administration [3]	1
Total Credits		59-60

1 Internship, independent study or assistantship credit will not count toward this requirement.

2 Requires a minimum grade of C.

3 GEB 4941 in conjunction with an internship of at least 150 credits before the start of the senior year. The internship requirement can be waived for students who participate in a study abroad experience of at least six weeks. Students who waive the requirement via study abroad are strongly encouraged to complete at least one internship to improve their chances of obtaining full-time employment and/or admission to graduate programs or law school. Students should consult an academic advisor/career coach for more information.

Related Management Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=520201&track=01) may be used for transfer students.

To remain on track for the BSBA-MGT major, students must meet the critical-tracking criteria listed below. The critical-tracking GPA is calculated based on all attempts of the critical-tracking courses or their equivalents. After a student receives a minimum grade of C in a critical-tracking course or its equivalent, no subsequent grade in that course or its equivalent will be used in the calculation of the critical-tracking GPA.

Semester 1

- Complete 1 critical-tracking course from ACG 2021, ACG 2071, CGS 2531 or ISM 3013, ECO 2013, ECO 2023, MAC 2233, STA 2023
- 2.50 GPA on all attempts of critical-tracking courses, excluding MAN 3025
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses for a total of 3 critical-tracking courses
- 2.75 GPA on all attempts of critical-tracking courses, excluding MAN 3025
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses (including ACG 2021) for a total of 5 critical-tracking courses
- 3.0 GPA on all attempts of critical-tracking courses, excluding MAN 3025
- 2.0 UF GPA required

Semester 4

- Complete 7 of the 8 critical-tracking courses, excluding MAN 3025
- 3.0 GPA on all attempts of critical-tracking courses, excluding MAN 3025
- 2.0 UF GPA required

Semester 5

- Complete MAN 3025 with a minimum grade of C
- Meet all semester 1-4 critical-tracking requirements
- 2.0 UF GPA required (and maintained through semester 8)

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
MAC 1140	Precalculus Algebra (if needed; or elective)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Composition; Writing Requirement		3
	Credits	13
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Diversity		3
	Credits	16
Semester Three		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	4
Select one:		3-4
CGS 2531	Problem Solving Using Computer Software (**Critical Tracking**; Gen Ed Mathematics)	
ISM 3013	Introduction to Information Systems (**Critical Tracking**)	
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Humanities (p. 23)		3
Elective		2
	Credits	15-16
Semester Four		
ACG 2071	Introduction to Managerial Accounting (**Critical Tracking**)	4
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
GEB 4941	Internship in Business Administration (complete by beginning of senior year)	1
Gen Ed International		3
Select one professional communication course:		3
GEB 3213	Professional Writing in Business	
GEB 3218	Professional Speaking in Business	
SPC 2608	Introduction to Public Speaking	
ENC 3312	Advanced Argumentative Writing	
Elective		2
	Credits	16
Semester Five		
MAN 3025	Principles of Management (**Critical Tracking**; Gen Ed Social and Behavioral Sciences) [1]	4
QMB 3250	Statistics for Business Decisions	4
Restricted elective		4
Elective		2
	Credits	14
Semester Six		
FIN 3403	Business Finance	4
MAN 3240	Organizations: Structure and Behavior [1]	4
MAR 3023	Principles of Marketing	4
Restricted elective		4
	Credits	16

Semester Seven		
BUL 4310	The Legal Environment of Business	4
GEB 3373	International Business	4
MAN 4301	Human Resource Management	4
MAN or BUL elective (3000/4000 level)		4
	Credits	16
Semester Eight		
MAN 4504	Operations and Supply Chain Management	4
MAN 4723	Strategic Management	4
Restricted elective		4
Elective		2
	Credits	14
	Total Credits	120

[1] Minimum grade of C required.

Academic Learning Compact

A bachelor's degree in business administration enables students to achieve foundation knowledge in economics, accounting, finance, management, marketing, business law, statistics, operations management, human resource management, information technology and entrepreneurship. Special emphasis is placed on understanding the links between various business disciplines and the development of sound business plans. Students will be able to effectively analyze a business entity's strengths and weaknesses as well as investigate the opportunities and threats present in the business environment.

The management major covers the key topics of organizational behavior, human resource management and business strategy. Within these three main topics, students learn about important areas such as leadership, effective teams and groups, employee evaluation systems and corporate governance.

Before Graduating Students Must

- Take the ETS Major Field Test in Business as part of MAN 4504. The ETS exam covers nine content areas in business. The score describes your performance relative to other seniors in business and accounting at 600+ colleges and universities (e.g., top 15% in the nation compared to your peers).
- Complete requirements for the baccalaureate degree, as determined by the faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate knowledge and understanding of elements of economics, financial accounting, marketing, operations management, organizational behavior, business law, information technology, business statistics and social responsibility.
2. Demonstrate proficiency in the use of business-related software applications.
3. Define the ethical responsibilities of business organizations and identify relevant ethical issues.
4. Understand how the business environment, including culture, differs across countries.
5. Possess awareness of cultural differences and how these differences affect business decisions.
6. Identify characteristics and roles of groups and teams.
7. Identify characteristics and roles of managers and leaders.
8. Possess knowledge in an area of specialization outside the disciplines of business and accounting.

Critical Thinking

9. Specify and implement a framework for identifying a business problem and develop alternative solutions and a set of evaluation criteria.
10. Assess the outcomes of a course of action and make appropriate adjustments.

Communication

11. Write business documents clearly, concisely and analytically.
12. Speak in groups and in public clearly, concisely and analytically, with appropriate use of visual aids.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12
ACG 2021	I	R							R	R		
ACG 2071	I	R							R	R		
BUL 4310	R		R, A									
CGS 2531	I	I										
ECO 2013	I			I					I	I		
ECO 2023	I			I					I	I		
FIN 3403	I		R								R, A	
GEB 3213											R, A	
GEB 3218												I, A
GEB 3373	R			R, A	R, A				R	R		
MAN 3025	I		R	I	I	I, A	I, A		R	R		
MAN 4504	I								R, A	R, A	R	R
MAR 3023	I		R, A	R, A	I		I					
QMB 3250	I	R, A							R, A	R, A		
Specialization Area								I, R, A	R	R	R	R
Senior Exam	A			A								

Assessment Types

- Exams, papers and presentations in major-specific courses and the following:

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4

- Writing and public speaking assignments in:

Code	Title	Credits
FIN 3403	Business Finance	4
GEB 3213	Professional Writing in Business	3
GEB 3218	Professional Speaking in Business	3

Marketing

The Bachelor of Science in Business Administration-Marketing (BSBA-MKG) degree program provides a broad overview of the functional areas of business with an emphasis in marketing. Students take foundation courses in economics, mathematics, computing skills and accounting; core courses that relate to the basic functions of a business, such as finance, management, marketing and operations management; and major courses that teach students how to plan and execute the conception, pricing, promotion and distribution of products and manage customer relationships in ways that benefit organizations and their stakeholders.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Degree:** Bachelor of Science in Business Administration
- **Credits for Degree:** 120
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

The BSBA-MKG curriculum focuses on consumer behavior, development and analysis of marketing strategies, retail management, marketing research, sales management and international marketing. The BSBA-MKG curriculum prepares students for careers in sales, marketing research, brand management, retail marketing and marketing communications, and for graduate studies in business, advertising and the social sciences.

BSBA-MKG majors are encouraged to gain practical work experience through internships, student organizations and community service. In addition, the Heavener School of Business offers students a wide variety of academic and career and leadership programs, including study abroad, the Florida Leadership Academy, involvement in student organizations and research activities. Students should consult an academic advisor/career coach for specific information.

Requirements for the Major

BSBA-MKG majors must maintain a 2.0 core, major and UF GPA. Students must read the individual course descriptions in this catalog to determine the prerequisites for their required courses. In addition to the critical-tracking and general education courses outlined below, BSBA-MKG majors must take 120 credits, including:

Code	Title	Credits
Core Courses		
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4
Major Courses		
MAR 3503	Consumer Behavior	4
MAR 4803	Marketing Management	4
3000/4000-level marketing electives		8
Restricted Electives		
Any 3000/4000-level courses or 1000/4000-level foreign language courses. [1]		11-12
One electronic platform course can be taken to fulfill the restricted elective requirement:		
ENT 3003	Principles of Entrepreneurship	
GEB 3035	Effective Career Management in Business	
ISM 3004	Computing in the Business Environment	
REE 3043	Real Estate Analysis	
Professional Communication Course		
Select one:		3
GEB 3213	Professional Writing in Business	
GEB 3218	Professional Speaking in Business	
SPC 2608	Introduction to Public Speaking	
ENC 3312	Advanced Argumentative Writing	3
A similar course with prior approval (requires a minimum grade of C)		
Internship Course		
GEB 4941	Internship in Business Administration [2]	
Total Credits		61-62

1 Internship, independent study or assistantship credit will not count toward this requirement.

2 In conjunction with an internship of at least 150 credits before the start of the senior year. The internship requirement can be waived for students who participate in a study abroad experience of at least six weeks. Students who waive the requirement via study abroad are strongly encouraged to complete at least one internship to improve their chances of obtaining full-time employment and/or admission to graduate programs or law school. Students should consult an academic advisor/career coach for more information.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=521401&track=01) may be used for transfer students.

To remain on track for the BSBA-MKG major, students must meet the critical-tracking criteria listed below. The critical-tracking GPA is calculated based on all attempts of the critical-tracking courses or their equivalents. After a student receives a minimum grade of C in a critical-tracking course or its equivalent, no subsequent grade in that course or its equivalent will be used in the calculation of the critical-tracking GPA.

Semester 1

- Complete 1 critical-tracking course from ACG 2021, ACG 2071, CGS 2531 or ISM 3013, ECO 2013, ECO 2023, MAC 2233, STA 2023
- 2.50 GPA on all attempts of critical-tracking courses, excluding MAR 3023
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses for a total of 3 critical-tracking courses
- 2.75 GPA on all attempts of critical-tracking courses, excluding MAR 3023
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses (including ACG 2021) for a total of 5 critical-tracking courses
- 3.0 GPA on all attempts of critical-tracking courses, excluding MAR 3023
- 2.0 UF GPA required

Semester 4

- Complete 7 of the 8 critical-tracking courses, excluding MAR 3023
- 3.0 GPA on all attempts of critical-tracking courses, excluding MAR 3023
- 2.0 UF GPA required

Semester 5

- Complete MAR 3023 with a minimum grade of C
- Meet all semester 1-4 critical-tracking requirements
- 2.0 UF GPA required (and maintained through semester 8)

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
MAC 1140	Precalculus Algebra (if needed; or elective)	3
State Core Gen Ed Biological or Physical Sciences (p. 23)		3
Gen Ed Composition; Writing Requirement		3
	Credits	13
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2233	Survey of Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	3
Gen Ed Biological or Physical Sciences		3
Gen Ed Diversity		3
	Credits	16
Semester Three		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	4
Select one:		3-4
CGS 2531	Problem Solving Using Computer Software (**Critical Tracking**; Gen Ed Mathematics)	
ISM 3013	Introduction to Information Systems (**Critical Tracking**)	
State Core Gen Ed Composition (p. 23)		3
State Core Gen Ed Humanities (p. 23)		3
Elective		2
	Credits	15-16

Semester Four		
ACG 2071	Introduction to Managerial Accounting (**Critical Tracking**)	4
GEB 4941	Internship in Business Administration (complete by beginning of senior year)	1
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Gen Ed International		3
Select one professional communication course:		3
GEB 3213	Professional Writing in Business	
GEB 3218	Professional Speaking in Business	
SPC 2608	Introduction to Public Speaking	
ENC 3312	Advanced Argumentative Writing	
Elective		2
	Credits	16
Semester Five		
MAR 3023	Principles of Marketing (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences; minimum grade of C required)	4
QMB 3250	Statistics for Business Decisions	4
Restricted electives		4
Elective		3
	Credits	15
Semester Six		
FIN 3403	Business Finance	4
MAN 3025	Principles of Management	4
MAR 3503	Consumer Behavior	4
Restricted elective		3
	Credits	15
Semester Seven		
BUL 4310	The Legal Environment of Business	4
GEB 3373	International Business	4
Marketing electives (3000/4000 level)		4
Restricted electives		4
	Credits	16
Semester Eight		
MAN 4504	Operations and Supply Chain Management	4
MAR 4803	Marketing Management	4
Marketing electives (3000/4000 level)		4
Elective		2
	Credits	14
	Total Credits	120

Academic Learning Compact

A bachelor's degree in business administration enables students to achieve foundation knowledge in economics, accounting, finance, management, marketing, business law, statistics, operations management, human resource management, information technology and entrepreneurship. Special emphasis is placed on understanding the links between various business disciplines and the development of sound business plans. Students will be able to effectively analyze a business entity's strengths and weaknesses as well as investigate the opportunities and threats present in the business environment.

The marketing major provides a fundamental understanding of consumer behavior, market segmentation and positioning, the role of marketing in corporate strategy and methods by which the tactical tools of pricing, promotion and distribution are utilized by marketing practitioners.

Before Graduating Students Must

- Take the ETS Major Field Test in Business as part of MAN 4504. The ETS exam covers nine content areas in business. The score describes your performance relative to other seniors in business and accounting at 600+ colleges and universities (e.g., top 15% in the nation compared to your peers).
- Complete requirements for the baccalaureate degree, as determined by the faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Demonstrate knowledge and understanding of elements of economics, financial accounting, marketing, operations management, organizational behavior, business law, information technology, business statistics and social responsibility.
2. Demonstrate proficiency in the use of business-related software applications.
3. Define the ethical responsibilities of business organizations and identify relevant ethical issues.
4. Understand how the business environment, including culture, differs across countries.
5. Possess awareness of cultural differences and how these differences affect business decisions.
6. Identify characteristics and roles of groups and teams.
7. Identify characteristics and roles of managers and leaders.
8. Possess knowledge in an area of specialization outside the disciplines of business and accounting.

Critical Thinking

9. Specify and implement a framework for identifying a business problem and develop alternative solutions and a set of evaluation criteria.
10. Assess the outcomes of a course of action and make appropriate adjustments.

Communication

11. Write business documents clearly, concisely and analytically.
12. Speak in groups and in public clearly, concisely and analytically, with appropriate use of visual aids.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12
ACG 2021	I	R							R	R		
ACG 2071	I	R							R	R		
BUL 4310	I		R, A									
CGS 2531	I	I										
ECO 2013	I			I					I	I		
ECO 2023	I			I					I	I		
FIN 3403	I		R								R, A	
GEB 3213											R, A	
GEB 3218												I, A
GEB 3373	R			R, A	R, A				R	R		
MAN 3025	I		R	I	I	I, A	I, A		R	R		
MAN 4504	I								R, A	R, A	R	R
MAR 3023	I		R, A	R, A	I		I					
QMB 3250	I	R, A							R, A	R, A		
Specialization Area								I, R, A	R	R	R	R
Senior Exam	A			A								

Assessment Types

- Exams, papers and presentations in major-specific courses and the following:

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
FIN 3403	Business Finance	4
GEB 3373	International Business	4
MAN 3025	Principles of Management	4
MAN 4504	Operations and Supply Chain Management	4
MAR 3023	Principles of Marketing	4
QMB 3250	Statistics for Business Decisions	4

- Writing and public speaking assignments in the following:

Code	Title	Credits
FIN 3403	Business Finance (writing)	4
GEB 3213	Professional Writing in Business	3
GEB 3218	Professional Speaking in Business	3

Real Estate Minor

The real estate minor: (1) introduces the business of commercial real estate, including the roles, activities, and players in the industry, common terminology, and the real estate transaction process, and (2) prepares students to make sound decisions concerning real estate use and investment. The minor also exposes the numerous career paths available in the commercial real estate industry, including development, real estate appraisal and investment, leasing and asset management, mortgage lending, and commercial brokerage.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Credits:** 22-23 | Completed with an overall 3.0 GPA in the minor and a cumulative UF GPA of 2.0

All courses for the minor must be taken for letter grade. All attempts at courses for the minor will be averaged into the minor GPA. All 3000/4000-level courses required for the minor must be taken at UF or via a study abroad program preapproved by the Heavener School of Business. Flexible learning courses will not count toward the minor.

Students who completed BUL 4310 at another Florida public university can petition the school to take a higher-level course in that discipline to satisfy requirements for the minor.

Required Courses

Code	Title	Credits
BUL 4310	The Legal Environment of Business	4
ECO 2013	Principles of Macroeconomics	4
or ECO 2023	Principles of Microeconomics	
REE 3043	Real Estate Analysis	4
REE 4303	Real Estate Investment Decision Making	4
Approved electives		6-7
Total Credits		22-23

Approved Electives

Code	Title	Credits
BCN 1210	Construction Materials	3
BCN 1251C	Construction Drawing	3
BCN 1582	International Sustainable Development	3
BCN 3012	History of Construction	3
DCP 3200	Methods of Inquiry for Sustainability and the Built Environment	3
DCP 3210	Sustainable Solutions for the Built Environment	3
GEO 3430	Population Geography	3
GEO 3602	Urban and Business Geography	3
GEO 3611	Housing, People and Places in a Spatially Diverse America	3
GIS 3043	Foundations of Geographic Information Systems	4
REE course (3000/4000 level)		2-4
URP 4000	Preview of Urban and Regional Planning	3
URP 4273	Survey of Planning Information Systems	3
URP 4740	Housing and Urban Development	3

Retailing Minor

This minor stimulates interest in retailing careers.

About this Program

- **College:** Heavener School of Business (p. 1192)
- **Credits:** 21 | Completed with an overall 2.0 GPA in the minor and a cumulative 2.0 UF GPA
- **Contact:** Email (cecilia.schulz@warrington.ufl.edu)

All courses must be taken for letter grade (except for MAR 2290 and MAR 4945) at UF or via an approved study abroad program.

Students who completed FIN 3403, MAN 3025 or MAR 3023 at another Florida public university can petition the school to take a higher-level course in that discipline to satisfy requirements for the minor.

Flexible learning courses will not count toward the minor.

Required Courses

Code	Title	Credits
FIN 3403	Business Finance [1]	4
MAN 3025	Principles of Management [1]	4
MAR 2290	Retail Management Seminar	1
MAR 3023	Principles of Marketing [1]	4
MAR 3231	Introduction to Retailing Systems and Management [1]	4
MAR 4945	Retail Management Internship	1
Approved electives		3
Total Credits		21

[1] Course has prerequisites.

Approved Electives

Code	Title	Credits
MAR 3503	Consumer Behavior [1]	4
MAR 4403	Sales Management [1]	4
Any Special Topics retailing course [2]		4

[1] Course has prerequisites.

[2] Beyond MAR 3231; requires prior approval.

Engineering, Herbert Wertheim College of

Established in 1910, the Herbert Wertheim College of Engineering is the largest professional school, the second-largest college and one of the three largest research units at the University of Florida. The curricula is designed to produce highly skilled engineers and provide each student with a broad range of degree and career choices.

Contact

312 Weil Hall
1949 Stadium Road or
P.O. Box 116550
University of Florida
Gainesville, FL 32611-6550

352.392.2177

Map (http://campusmap.ufl.edu/?loc=0024) More Info (http://www.eng.ufl.edu)

Academic Advising and Career Coaching

Center for Student Excellence
204 Weil Hall
352.392.0944

Established

1910

Programs

A four-year undergraduate program and combined-degree program with joint award of bachelor's and master's degrees in 15 engineering specializations.

Degrees

Bachelor of Science, Master of Science, Master of Civil Engineering, Master of Engineering, Doctorate.

Academic Advising

First Year students receive academic advising and career coaching in the Center for Student Excellence. All first-year student complete a required First Year Engineering Advising (https://www.eng.ufl.edu/students/advising) course designed to teach them how to navigate their academic

planning, and successfully transition from high school to college. Students who successfully complete their first year are transitioned to departmental advising. All engineering students must contact an advisor before registering for classes each semester.

Scholarships

Scholarship awards are made each spring for the following academic year and are based on demonstrated need and scholastic performance. Applications are available in the fall semester and students are notified by Undergraduate Student Affairs.

Internships and Career Guidance

Professional development guidance is available from academic advisors, faculty, and the Career Connections Center. Visit the Career Connections Center in the J. Wayne Reitz Student Union.
Map (http://campusmap.ufl.edu/?loc=0686) More Info (https://career.ufl.edu)

College Mission

The Herbert Wertheim College of Engineering fosters and provides world-class programs in engineering education, research and service to enhance the economic and social well-being of the citizens of Florida, the nation and the world.

Graduates of the Herbert Wertheim College of Engineering at the University of Florida will exhibit the following in pursuit of their profession:

- Vision, as evidenced by an ability to use creative approaches to problem solving.
- Values, as evidenced by an understanding of the importance of employing strong professional ethics.
- Leadership, as evidenced by serving as:
  - A team/project leader with solid project management and planning skills
  - A mentor to less experienced staff
  - A volunteer in the community
- Professional expertise, as evidenced by:
  - Making meaningful contributions to technical engineering problem solving as both an individual contributor and in team situations
  - Continually enhancing both technical and non-technical skills
  - Applying professional expertise to increasingly complex problems/projects
  - Increasingly capable communications skills, both verbal and written
  - Knowledge about the interaction of financial, societal, legal or cultural influences with science and technology.

Accreditation

For information about a specific major, please refer to the departmental webpage, contact the undergraduate coordinator in the department, or visit the Center for Student Excellence in 204 Weil Hall.

Particle Engineering Research Center (PERC)
More Info (http://www.erc.ufl.edu)

Information about the center's research, education and technology transfer programs: 352.846.1194 or Email (erc@erc.ufl.edu).

Engineering Undergraduate Student Affairs

Engineering student services are provided through Engineering Undergraduate Student Affairs located in 312 and 204 Weil Hall (http://campusmap.ufl.edu/?loc=0024). Undergraduate Student Affairs is responsible on a college-wide basis for coordinating academic advising and developing and implementing other student support programs and services, including career/college life coaching, success workshops, study halls, tutoring and mentoring, retention efforts, and new student programs.

The division informs students of educational opportunities such as scholarships, tuition waivers, co-op and internship opportunities and available campus resources. The division also serves as liaison between the Herbert Wertheim College of Engineering and university-wide student services and facilities.

First Year Academic Advising and Career Coaching

First year engineering students receive individualized academic, career, and personal coaching from the Herbert Wertheim College of Engineering's professional academic advisors and career coaches in our comprehensive First Year Advising program. One-on-one and small group sessions are offered to assist students in identifying majors, resources, and opportunities that will enhance their personal, professional, and academic goals. Engineering Peer Advisors are also available to answer questions, discuss student organizations and design teams, and provide mentoring to new students. The Engineering Center for Student Excellence is located in 204 Weil Hall (http://campusmap.ufl.edu/?loc=0024).

Multicultural and Diversity Programs

These programs provide focused support to under-represented groups in the engineering profession. Students receive the personal, academic, social and cultural support they need to achieve academic success.

Services include orientation to UF and the college, academic and career advice, leadership development, engineering success skill development, coaching, financial assistance and tutoring.

First Year College Transition Programs

The college offers transition programs for incoming freshmen to help them adjust to college life at the university.

STEP-UP is a multifaceted bridge program designed to promote academic and personal success among entering engineering students throughout their first year (Summer B, fall and spring). This program combines faculty and peer mentoring with team-building, industry involvement and academic enhancement classes in engineering foundation courses. An engineering design component provides the opportunity to apply foundational concepts in problem-solving, team-building and interpersonal communications.

Pre-Collegiate K-12 Programs

The Herbert Wertheim College of Engineering supports the university's land-grant mission through a wide range of programs that support student preparation in grades K-12. These include the Gator Engineering

Outreach Program, SECME, Engineering GatorTrax and information programs for students and guidance counselors.

Information about these programs: Engineering Undergraduate Student Affairs, 212 Weil Hall (http://campusmap.ufl.edu/?loc=0024).

Helpful Links

- College Website (https://www.eng.ufl.edu)
- Combined Degrees (p. 1400)
- Computer Requirement (http://www.it.ufl.edu/policies/student-computing-requirements)
- Dean's List (p. 1385)

Academic Policies

Admission to the College

Preparation for Freshmen and Sophomores

The beginning engineering student should have a good understanding of the basic physical sciences, a demonstrated ability in mathematics and the competence to read rapidly with comprehension.

Minimum high school preparation should include the basics outlined below. Students who need additional foundation courses can complete appropriate math and chemistry courses before proceeding with the regular engineering curriculum.

Refer to freshman admission for complete information.
More Info (p. 16)

Essentials	Years
Intermediate and advanced algebra	1
Plane geometry	1
Trigonometry	1/2
Chemistry	1
Physics	1
Calculus	1

General Education

Students must complete general education and prescribed foundation coursework in mathematics and the physical and biological sciences before pursuing junior/senior-level courses in the college. All courses used to satisfy general education requirements must be taken for a letter grade and a minimum grade of C is required. Requirements of the Accreditation Board for Engineering and Technology (ABET) in general education are satisfied by the university's general education requirements.

Transfer from Florida State Colleges

Florida state college students who have completed the Associate of Arts degree and the required technical foundation courses in calculus, differential equations, chemistry and physics with calculus are eligible to apply for transfer directly into the Herbert Wertheim College of Engineering. Admission to the college is selective and is based on the total record. Students with excessive withdrawals from coursework may not be eligible.

In particular, transfer students must meet the following minimum requirements:

- Earn an Associate of Arts degree from a Florida public state college with a minimum GPA of 2.00.
- Satisfy the general education requirements of the state college and comply with the general education requirements of UF and the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.
- Complete two sequential courses of foreign language in secondary school or 8-10 semester credits at the post-secondary level or document an equivalent level of proficiency.
- Satisfy critical-tracking criteria in accordance with specific program requirements and overall grade point average.
- Complete critical-tracking courses in calculus, differential equations, chemistry and physics with calculus with minimum grades of C in each course and a minimum GPA of 2.5 (as computed on the last of a maximum of two attempts allowed for each course, including withdrawals). For certain majors, a higher grade is required in each course. Some majors have additional critical tracking courses.

Upper Division Transfer from a Non-Florida State College

All students who transfer from four-year institutions must meet the general admission requirements of the university. In addition, students must meet the college's admission requirements to transfer directly into an engineering program. Students with 60 or more credits earned but less than 90 credits will be considered on a space-available basis.

Students with more than 90 credits earned and applying from a non-Florida state/public college are generally not considered for admission.

All students transferring to UF must complete a minimum of 60 credits of acceptable 3000/4000-level coursework at UF to receive a degree from this college.

Unless previous arrangements have been made for course certification by faculty of the Herbert Wertheim College of Engineering, only engineering courses taken in programs accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology will be considered for transfer to this college.

Postbaccalaureate Admission

A student who has received a baccalaureate degree who wants to meet specific requirements for admission to graduate school may be admitted as a postbaccalaureate student. Space is limited for postbaccalaureate study and only where space is available will admissions be made for postbaccalaureate studies.

Overseas Studies

HWCOE International Engineering Programs offers students the opportunity to participate in international experiences, through study, research, internship and service learning abroad. Students can study abroad for a semester and take major classes or participate in a summer program to gain research or internship experiences. There are more than 40 semester-long exchange programs in more than 20 countries that offer engineering classes in English to help students stay on track for their academic program. Credits earned in study abroad programs may count toward a major or minor and can satisfy general education, language and summer residency requirements.

Every engineering student has a unique academic plan and we work with the individual student to customize their international experience. For more information, go to https://www.eng.ufl.edu/international or talk to your academic advisor to find out more.

Academic Regulations

Credit for Special Work

- With department approval, a student can receive practical industry work experience under supervision. With a previously approved outline, a student can receive up to three college credits by submitting a satisfactory report and by passing an examination.
- Students can receive credit for research work by registering for EGN 4912. See your academic advisor for details.
- A student cannot apply more than eight credits of individual study, including high honors projects, co-op work experience, practical work experience and special problems or special topics, for credit toward a degree program.

Dean's List (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#deanslisttext)

Drop Policy

Students are allowed two drops in the first 60 credits of UF coursework and two drops in upper division (60 or more credits completed at UF).

A student with an initial course load of 15 credits or more will be permitted an extra drop if the drop is completed by the end of the seventh week of class and if the total credits remaining are 12 or more.

Petitions to drop courses beyond the allotted number will be approved only when circumstances beyond the student's control prevented the satisfactory completion of a course. All such petitions must be submitted to Engineering Undergraduate Student Affairs, along with a written recommendation from the student's department advisor.

English Requirement

Each student in the college is required to complete ENC 1101 or ENC 1102. All students must also complete an appropriate course in professional communication with a minimum grade of C.

Any instructor in the college may require a student with a deficiency in English to complete additional coursework beyond the curriculum requirements for the degree, with approval of the department chair.

Flexible Learning

An enrolled engineering student will not be permitted to register for flexible learning courses unless the associate dean for student affairs and the registrar grant special permission. A student on probation must have permission of the associate dean to register for flexible learning courses when not enrolled in the college. A student who has been dismissed cannot take flexible learning courses for credit until the suspension is removed. A minimum grade of C is required for credit in a flexible learning course.

Grievance Procedures

The college supports the university's Affirmative Action and Equal Opportunity program. Anyone who believes that they have been discriminated against should contact the associate dean for student affairs.

If a student feels that their performance in a course has not been evaluated accurately, the situation should be discussed with the instructor. If the disagreement is not resolved, the student can pursue the matter with the instructor's department chair, the associate dean for student affairs and the university ombudsman.

Honors and Accelerated Courses

Honors and accelerated courses can be taken in place of their regular tracking counterparts. A prerequisite for any college course can be met by an honors or accelerated equivalent. Accelerated physics and honors chemistry courses are not restricted to students in the honors program, but honors calculus courses are controlled by the university honors program. Currently approved substitutions include:

- PHY 2060 instead of PHY 2048
- PHY 2061 instead of PHY 2049

Independent Study

Under certain circumstances, credit toward graduation may be obtained through independent study by registering for a course carrying a department prefix. A student cannot apply more than eight credits of independent study toward a degree program, including *magna cum laude* or *summa cum laude* honors projects, co-op work experience, practical work experience and special problems or special topics. Registration for one to four credits of variable credit in a semester requires department approval.

Probation Policy and Dismissal

An undergraduate student who is off-track or whose upper-division, university or department grade point average falls below 2.00 will be placed on academic probation. The student will be allowed two semesters to attain good academic standing. Students may not be on academic probation for more than two semesters during their undergraduate program. A student who fails to meet the conditions of probation must petition their department to be allowed to continue in the major. Approval of this petition is at the discretion of the student's department.

As a condition of probation, students must see an advisor at designated intervals to review progress toward meeting the conditions of probation. Failure to keep such appointments without valid reason will be considered a violation of probation and may result in dismissal from the program.

Students dismissed from the Herbert Wertheim College of Engineering should seek admission to another program.

Students should acquaint themselves with their department's probation and exclusion procedures and guidelines.

ROTC

Engineering students can enroll in the advanced ROTC programs offered by the Army, Navy and Air Force. Graduates will be commissioned as second lieutenants or ensigns. Advanced courses in military science are not normally acceptable credit as technical or nontechnical electives toward an engineering degree.

S-U Grade Option

All courses taken at the university to satisfy engineering degree requirements, general education and writing requirements must be taken for letter grade, unless the course is offered only on a satisfactory-unsatisfactory (S-U) basis. Nontechnical electives in the junior and senior years can be taken S-U.

Physical education courses taken when an engineering student has reached junior status must be taken S-U.

Students should check with their departments to determine policy.

Student Responsibility

It is the student's responsibility to review and consider all pertinent information about the university and the college. Special attention must be paid to required documentation and deadlines.

Summer Attendance

Students who have completed a summer study abroad program, co-op, internship, research experience, or other engineering-related work can petition to waive this requirement once they have earned 75 credit hours. All petitions must be submitted to the university petitions committee with all appropriate documentation.

Transient Students

This category includes students who are admitted to the college who wish to pursue studies temporarily at another two- or four-year institution. Students who wish to transfer credits for coursework completed at other institutions must first obtain department and college approvals.

A transient student who is a degree-seeking candidate at another institution who wishes to transfer credit from the University of Florida must file a non-degree application with the Office of the University Registrar in Criser Hall.

Withdrawal from the University

Any undergraduate who withdraws from the university a second time will be placed on college probation automatically until graduation. Any student on college probation who withdraws from the university a third time may be, at the discretion of the associate dean for undergraduate student affairs, ineligible for further registration in the college.

Degree Requirements

The Herbert Wertheim College of Engineering confers a Bachelor of Science degree upon all students who have successfully completed a program of study and have fulfilled all requirements for a specific major in the college.

A thesis is not required for the baccalaureate degree. However, the department can grant permission to exceptional students to undertake a thesis in lieu of up to four semester credits of required or elective work in the student's department.

Required Minimum Grade Point Averages

- 2.5 GPA is required in critical-tracking courses
- 2.0 GPA is required for all courses in the college
- 2.0 GPA is required in all courses in the department
- 2.0 GPA is required in all courses taken after being classified as an upper division student
- 2.0 cumulative GPA is required in all work attempted at the university

All grade point averages are based on a 4.0 scale computed on the last of the maximum two attempts (including withdrawals) allowed for each course.

Technical Foundation Courses

Technical coursework is required of all students. This coursework also satisfies the mathematics and physical/biological science categories of the general education requirement. Generally, all technical coursework must be completed or be in final progress before a student can register for junior/senior-level engineering courses. Minimum grades of C are required in all calculus, chemistry and physics coursework based on a maximum of two attempts, including withdrawals.

Some departments may have higher requirements.

Critical-Tracking Criteria

The Herbert Wertheim College of Engineering has established tracking criteria for all programs. Applicants with specific questions can contact the department or Engineering Undergraduate Student Affairs.

Students must fulfill the performance criteria for their program's tracking courses. Students who are off-track will be placed on probation. Students who fail to meet the conditions of their probation may not be allowed to continue in the Herbert Wertheim College of Engineering.

A minimum grade of C (based on a maximum of two attempts, including withdrawals) is required for each tracking course. Students may repeat a maximum of three critical tracking courses. A minimum 2.5 critical-tracking GPA is required for students to continue to the upper-division engineering program. Some departments require a grade higher than C in critical-tracking courses. Students are expected to complete all critical tracking courses by the fifth fall/spring semester.

To be on track, students must meet or exceed these minimum performance criteria.

Tracking Courses

Semesters at UF	Minimum Completed	Minimum GPA	Minimum Overall UF GPA
First	1	2.5	2.0
Second	2	2.5	2.0
Third	4	2.5	2.0
Fourth	6	2.5	2.0
Fifth	8	2.5	2.0

Required Tracking Courses: All Engineering Majors

Courses	Credits
Mathematics	15 credits
Calculus	
MAC 2311[1]	4
MAC 2312	4
MAC 2313	4
Differential Equations	
MAP 2302	3
Physical/Biological Sciences	16 credits
Physics	
PHY 2048	3
PHY 2048L	1
PHY 2049	3
PHY 2049L	1
Chemistry	

CHM 2045 or CHM 2095[1,2]	3
CHM 2045L	1
CHM 2046 or CHM 2096[3]	3
CHM 2046L	1
Additional critical tracking requirements[4]	
Refer to specific major plan	

1. Calculus and chemistry placement will be determined by student scores on the online ALEKS assessment test, which is required for all engineering students.
2. Industrial and systems engineering majors: CHM 2045 is not required for tracking; however, it is required for graduation.
3. Aerospace engineering, civil engineering, computer engineering, computer science, digital arts and sciences, electrical engineering, industrial and systems engineering, mechanical engineering, and nuclear engineering either do not require CHM 2046/CHM 2096 or may substitute another course.
4. Additional critical tracking requirements for specific majors are listed in the major degree programs.

Progression to Graduation

The programs leading to bachelor's degrees in engineering are carefully planned and organized sequences. The highly motivated student with proper high school preparation can complete these programs in four years, including at least one summer term, by scheduling an average of 15 credits each semester.

Usually, foundation subjects common to all fields of engineering are studied in the first two years at the university or in a pre-engineering program at a state or community college. Specialized study is taken in the junior and senior years within a department of the college, where the program is tailored to the student's preparation, interests and career goals.

The specific requirements for each major are outlined. Students must consult their academic advisors each semester before registering for classes.

Graduating with Honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

Programs

MAJORS

- Aerospace Engineering
- Biological Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science | Herbert Wertheim College of Engineering
- Digital Arts and Sciences | Bachelor of Science
- Electrical Engineering
- Engineering | Exploring Engineering Studies
- Environmental Engineering
- Industrial and Systems Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Nuclear and Radiological Sciences
- Nuclear Engineering

MINORS

- Biomechanics Minor
- Biomolecular Engineering Minor
- Computer and Information Science and Engineering Minor
- Electrical Engineering Minor
- Engineering Innovation Minor
- Materials Science and Engineering Minor
- Nuclear and Radiological Engineering Minor
- Sales Engineering Minor

CERTIFICATES

- Advanced Engineering Ceramics Certificate
- Biomaterials Certificate
- Engineering Innovation Certificate
- Engineering Leadership Certificate
- Metallurgical Engineering Certificate
- Nuclear Radiation and Reactor Analysis Certificate
- Nuclear Thermal Systems Analysis Certificate
- Polymer Science and Engineering Certificate
- Semiconductor Materials Certificate

Computer-Related Degrees

The Herbert Wertheim College of Engineering has responsibility for teaching all computer courses included in computer-related degree programs at the University of Florida. These degrees are offered in the colleges of Business, Engineering, and Liberal Arts and Sciences.

Computer Engineering Programs

Computer Engineering (CPE) is a joint program of the Computer and Information Science and Engineering (CISE) and the Electrical and Computer Engineering (ECE) departments. The Bachelor of Science in Computer Engineering (BSCPE) is offered by both departments and requires 126 credits for graduation.

This degree program produces a computer engineer who has the knowledge of hardware and software to build working computer systems from electronic components and to program them for a variety of tasks.

Students with interests in software systems and algorithms should pursue a major through the CISE department; students with interests in computer hardware or electrical engineering should pursue a major through the ECE department.

Refer to the CISE and ECE department sections for the BSCPE degree curriculum. For additional information on computer engineering degree options, please contact an academic advisor in either department or the dean's office.

Other Combined Degree Programs in Engineering

Qualified students can pursue a bachelor's and a master's degree concurrently. These combined-degree programs are offered in all departments within the Herbert Wertheim College of Engineering.

More Info (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Advanced Engineering Ceramics Certificate

The advanced engineering ceramics certificate enables students to specialize in a concentration of modern approaches to the analysis of technical ceramic materials. It also helps students from other disciplines enhance their degree by including a dedicated knowledge of a specific material class.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 10 | Completed with minimum grades of C

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Upon completion of the certificate, students will have a fundamental basis for designing and analyzing structures and components made of advanced technical ceramic materials.

Prerequisite Courses

Code	Title	Credits
CHM 2045	General Chemistry 1	3
or CHM 2095	Chemistry for Engineers 1	
EMA 3010	Materials	3
EMA 3050	Introduction to Inorganic Materials	3

Required Courses

Code	Title	Credits
EMA 4144	Physical Ceramics 1	3
EMA 4145	Physical Ceramics 2	3
EMA 4645	Processing of Ceramic Materials	3
EMA 4041L	Advanced Ceramics Laboratory 1	1
Total Credits		10

Aerospace Engineering

Aerospace engineers are called upon to solve exciting problems of design, construction and operation of aircraft and spacecraft to meet the ever-increasing requirement for improved performance at lower unit cost. These challenges mean that aerospace engineers work at the continuously changing forefront of science, technology and systems management.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Aerospace Engineering
- **Credits for Degree:** 128
- **Additional Information**
- **Related Aerospace Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The undergraduate curriculum in aerospace engineering is a fully accredited baccalaureate program that provides a broad education with a strong foundation in mathematics, science and basic engineering sciences. Advanced courses in aeronautics and astronautics complete the degree. Graduates will be prepared to work in the aerospace and related industries or to pursue graduate study.

Combined Bachelor's/Master's Degree Program

The aerospace engineering professional often benefits from an advanced degree to meet the challenging needs of industry and government. Accordingly, the MAE department actively participates in the combined B.S./M.S. degree program that allows students to double-count graduate

courses toward both degrees. The combined-degree program reduces the cost for both degrees and enhances the student's marketability for career advancement. Interested students should contact the Department of Mechanical and Aerospace Engineering or its website for more information.

Department Requirements

Minimum grades of C are required for EGM 2511, EGM 3401 and EML 3100. The minimum grade of C is considered part of the prerequisite requirement for courses that list EGM 2511, EGM 3401 or EML 3100 as a prerequisite. The prerequisite course and subsequent course cannot be taken in the same term, even if the prerequisite is being repeated.

An aerospace or mechanical engineering student whose cumulative, upper-division or department grade point average falls below a 2.0 or whose critical-tracking grades do not meet department requirements will be placed on academic probation and required to complete a probation contract with an MAE academic advisor. Students normally are allowed a maximum of two terms (consecutive or non-consecutive) on academic probation. Students who do not satisfy the conditions of the first term on probation may be dismissed from the department.

All graduating seniors must complete an exit interview.

Dual-Degree Programs

There is great overlap between the aerospace engineering and mechanical engineering curriculum. The first six semesters of the two degree programs are identical. Through proper selection of electives, students can earn dual mechanical engineering/aerospace engineering B.S. degrees with one semester of additional work. Interested students should contact the Department of Mechanical and Aerospace Engineering or its website for more information.

Educational Objectives

The objective of the aerospace engineering program at UF is to prepare students to attain the following goals within a few years of graduation:

- Graduates will meet the expectations of employers of aerospace engineers.
- Qualified graduates will pursue advanced study if they so desire.

Mission

The mission of the undergraduate program is to:

- serve the state of Florida, the United States and the engineering profession by providing quality educational programs in aerospace engineering;
- conduct a nationally recognized research program; and
- foster ongoing professional development of students and faculty.

Research Programs

The department's active research programs are sponsored by private industry, the National Science Foundation, Department of Defense, NASA, National Institutes of Health and other agencies. These programs keep faculty at the leading edge of technology and provide opportunities for students to participate in research through classroom assignments, individual studies, undergraduate research scholarships and employment as research assistants.

Related Aerospace Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Dual Degree in Mechanical Engineering and Aerospace Engineering
- Bachelor of Science in Mechanical Engineering (p. 1311)
- Biomechanics minor (p. 1261)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=140201&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 8 tracking courses with a minimum grade of C within two attempts:
  CHM 2045 or CHM 2095, EML 2023, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049

- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses with minimum grades of C within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 or CHM 2095	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences) or Chemistry for Engineers 1	3
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
EML 2920	Department and Professional Orientation	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Gen Ed Composition; Writing Requirement: 6,000 words [1,2]		3
	Credits	15
Semester Two		
EML 2023	Computer Aided Graphics and Design (**Critical Tracking**)	3
ENC 3246	Professional Communication for Engineers (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
Approved Science elective		3
	Credits	17
Semester Three		
COP 2271	Computer Programming for Engineers (take the matlab section)	2
EAS 2011	Introduction to Aerospace Engineering	3
EGM 2511	Engineering Mechanics: Statics [3]	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2	1
	Credits	16

Semester Four		
EGM 3344	Introduction to Numerical Methods of Engineering Analysis [3]	3
EGM 3520	Mechanics of Materials [3]	3
EMA 3010	Materials	3
EML 2322L	Design and Manufacturing Laboratory	2
EML 3100	Thermodynamics [3]	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
	Credits	17
Semester Five		
EAS 4101	Aerodynamics	3
EEL 3003	Elements of Electrical Engineering [4]	3
EGM 3401	Engineering Mechanics: Dynamics [3]	3
MAP 4305	Differential Equations for Engineers and Physical Scientists	3
EML 3301C	Mechanics of Materials Laboratory (Writing Requirement: 6,000 words)	3
State Core Gen Ed Social and Behavioral Sciences (p. 23) [1]		3
	Credits	18
Semester Six		
EAS 4132	Compressible Flow	3
EAS 4510	Astrodynamics	3
EAS 4810C	Aerospace Sciences Lab and Design	3
EML 4312	Control of Mechanical Engineering Systems	3
Select one:		3
Gen Ed Humanities; Writing Requirement: 6,000 words [1]		
Gen Ed Social and Behavioral Sciences; Writing Requirement: 6,000 words [1]		
	Credits	15
Semester Seven		
EAS 4200	Aerospace Structures	3
EAS 4400	Stability and Control of Aircraft	3
State Core Gen Ed Humanities (p. 23) [1]		3
Approved Aerospace electives		6
	Credits	15
Semester Eight		
EAS 4300	Aerospace Propulsion	3
EAS 4700 or EAS 4710	Aerospace Design 1 or Aerospace Design 2	3
Gen Ed Social and Behavioral Sciences		3
Approved Technical electives		6
	Credits	15
	Total Credits	128

1 Students are also expected to complete the Gen Ed International and Gen Ed Diversity requirements. This is often done concurrently with another general education requirement (typically, Gen Ed Composition, Gen Ed Humanities or Gen Ed Social and Behavioral Sciences).

2 ACT/SAT placement scores do not exempt this requirement.

3 Minimum grade of C required.

4 Can substitute EEL 3111C.

Approved Electives

Science Elective | Select One

Critical Tracking

Code	Title	Credits
AST 3018	Astronomy and Astrophysics 1	3
AST 3019	Astronomy and Astrophysics 2	3
BSC 2010	Integrated Principles of Biology 1	3
CHM 2046	General Chemistry 2	3
CHM 2096	Chemistry for Engineers 2	3
PHY 3101	Introduction to Modern Physics	3

Aerospace Electives | Select Two

Code	Title	Credits
EAS 4240	Aerospace Composites	3
EAS 4412	Dynamics and Control of Space Vehicles	3
EML 4140	Heat Transfer	3
EML 4220	Vibrations	3
EML 4507	Finite Element Analysis and Design	3
Any graduate-level course taught by the MAE department		3

Academic Learning Compact

Aerospace engineers solve exciting problems of design, construction and operation of aircraft and spacecraft to meet the ever-increasing requirement for improved performance at lower unit cost. The undergraduate curriculum provides a broad education with a strong foundation in mathematics, science and basic engineering sciences. Advanced courses in aeronautics and astronautics complete the degree program and prepares students to work in aerospace industries or to pursue graduate study.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor according to department standards.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to aerospace engineering problems.
2. Design and conduct aerospace engineering experiments, analyzing and interpreting the data.

Critical Thinking

3. Design an aerospace engineering system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints.

Communication

4. Communicate technical data and design information effectively in writing and in speech to other aerospace engineers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EAS 4100	R		R	R
EAS 4200C	R		R	R
EAS 4300	R		R	R
EAS 4400	R		R	R
EAS 4510	R			R
EAS 4710	R	R	R	R
EGM 2511	I		I	
EGM 3344	R			
EGM 3401	R			
EGM 3520	A		R	
EGM 4313	R			
EGN 3353C	R			
EML 2023			R	R

EML 2322L	R		A	A
EML 2920				I
EML 3100	A			
EML 3301C	R	I, A		A
EML 4304C	R	A	A	A
EML 4312	A		R	
ENC 3254				R

Assessment Types

- Assignments
- Exams
- Design projects and reports
- Presentations
- Additional assessments include exit and alumni surveys

Biological Engineering

Biological engineering (BE) applies engineering principles to protect natural resources and to produce food, biofuels, pharmaceuticals, and other biobased products. It incorporates foundations of biology with engineering theory and practice to develop sustainable solutions to problems facing a broad range of industries.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Biological Engineering
- **Specializations:** Agricultural Production Engineering (p. 1243) | Biosystems Engineering (p. 1247) | Land and Water Resources Engineering (p. 1252) | Packaging Engineering (p. 1256)
- **Credits for Degree:** 128
- **Additional Information**
- **Related Biological Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Biological engineers pioneer new designs and techniques in such areas as agricultural robotics, remote sensing, bioprocessing, biofuels, precision agriculture, plant space biology, sustainability of our natural resources, and packaging product design and development.

Graduates are educated in the biological and environmental sciences as well as in engineering. They will address critical problems involving land and water resources, biological systems, production agriculture and innovations in packaging. Students can choose a focus area based on their courses of specialization and individual selection of electives. Areas of specialization are biosystems engineering, land and water resources engineering, packaging engineering, and agricultural production engineering.

In addition to abundant job opportunities in Florida's agricultural industry, graduates have career opportunities in biotechnology and in fields related to Florida's water quality and water resources, including water management districts, environmental companies, consulting firms, equipment manufacturers, bio-energy, food engineering and the packaging industry.

The BE curriculum can also fulfill requirements for admission to professional programs as well as to graduate programs including biomedical engineering, civil engineering and mechanical engineering.

Educational Objectives

Graduates from the University of Florida's undergraduate degree program in biological engineering will be prepared for at least one of the following:

- Successful careers in the profession of biological engineering or other related fields.
- Gaining admission to a graduate and/or professional degree program.

Goals

To develop biological engineering professionals with technical proficiency and societal responsibility.

Mission

The department will develop professionals, create and disseminate knowledge, and promote the application of engineering and management principles to meet societal needs with respect to agriculture, packaging, land and water resources, and biological systems.

Related Biological Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Academic Learning Compact

The curriculum emphasizes engineering solutions to problems associated with biological and agricultural systems that often are related to renewable natural resources. Students gain knowledge through formal courses, laboratory experimentation and individual experience. Students will learn to utilize math, science and engineering principles to analyze and interpret data, to design and conduct experiments, systems and components and to effectively communicate results within an appropriate presentation style.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass assessment by two or more faculty and/or industry practitioners of student performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to biological engineering problems. Students will be able to apply fundamental concepts, skills and processes in biological engineering.
2. Design and conduct biological and/or agricultural engineering experiments, analyzing and interpreting the data in biological engineering.

Critical Thinking

3. Design a biological and/or agricultural system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints in biological engineering.

Communication

4. Communicate technical data and design information effectively in writing and in speech to other engineers in biological engineering.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
ABE 2012C	I, A	I, A		
ABE 3612C		R, A		
ABE 4042C	R, A		I, A	I
ABE 4043C	R, A		R, A	R, A

Assessment Types

- Assignments
- Exams
- Design projects and reports

Biological Engineering | Agricultural Production Engineering

Biological engineering (BE) applies engineering principles to protect natural resources and to produce food, biofuels, pharmaceuticals, and other biobased products. It incorporates foundations of biology with engineering theory and practice to develop sustainable solutions to problems facing a broad range of industries.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Biological Engineering
- **Specializations:** Agricultural Production Engineering (p. 1243) | Biosystems Engineering (p. 1247) | Land and Water Resources Engineering (p. 1252) | Packaging Engineering (p. 1256)
- **Credits for Degree:** 128
- **Additional Information**
- **Related Biological Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Biological engineers pioneer new designs and techniques in such areas as agricultural robotics, remote sensing, bioprocessing, biofuels, precision agriculture, plant space biology, sustainability of our natural resources, and packaging product design and development.

Graduates are educated in the biological and environmental sciences as well as in engineering. They will address critical problems involving land and water resources, biological systems, production agriculture and innovations in packaging. Students can choose a focus area based on their courses of specialization and individual selection of electives. Areas of specialization are biosystems engineering, land and water resources engineering, packaging engineering, and agricultural production engineering.

In addition to abundant job opportunities in Florida's agricultural industry, graduates have career opportunities in biotechnology and in fields related to Florida's water quality and water resources, including water management districts, environmental companies, consulting firms, equipment manufacturers, bio-energy, food engineering and the packaging industry.

The BE curriculum can also fulfill requirements for admission to professional programs as well as to graduate programs including biomedical engineering, civil engineering and mechanical engineering.

Educational Objectives

Graduates from the University of Florida's undergraduate degree program in biological engineering will be prepared for at least one of the following:

- Successful careers in the profession of biological engineering or other related fields.
- Gaining admission to a graduate and/or professional degree program.

Goals

To develop biological engineering professionals with technical proficiency and societal responsibility.

Mission

The department will develop professionals, create and disseminate knowledge, and promote the application of engineering and management principles to meet societal needs with respect to agriculture, packaging, land and water resources, and biological systems.

Related Biological Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Agricultural Production Engineering

Code	Title	Credits
Required Courses		
ABE 4033	Fundamentals and Applications of Biosensors	3
ABE 4413C	Post-Harvest Operations Engineering	3
CEG 4011	Soil Mechanics	4
Electives		
Department electives (minimum)		3
Engineering electives (minimum)		6
Technical electives		6
Total Credits		25

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=144501&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 8 tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, CHM 2046 or CHM 2096, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Biological and Physical Sciences)	1
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Humanities with Diversity or International (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
Select one:		3
ABE 2062	Biology for Engineers (Gen Ed Biological and Physical Sciences)	
BSC 2010	Integrated Principles of Biology 1 (Gen Ed Biological and Physical Sciences)	
Select one:		3
CHM 2046	General Chemistry 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Biological and Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3

MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
	Credits	14
Semester Three		
ABE 2012C	Introduction to Biological Engineering	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Biological and Physical Sciences)	1
Select one:		3
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	
ENC 1102	Argument and Persuasion (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	
	Credits	14
Semester Four		
EGM 2511	Engineering Mechanics: Statics	3
EML 3007	Elements of Thermodynamics and Heat Transfer	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**; Gen Ed Mathematics)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Biological and Physical Sciences)	1
Gen Ed Social and Behavioral Sciences with Diversity or International; Writing Requirement: 6,000 words		3
	Credits	16
Semester Five		
CGN 2328 or EML 2023	Technical Drawing and Visualization or Computer Aided Graphics and Design	3
CGN 3710 or EEL 3003	Experimentation and Instrumentation in Civil Engineering or Elements of Electrical Engineering	3
CHM 2200 or BCH 3023	Fundamentals of Organic Chemistry or Elementary Organic and Biological Chemistry	3
EGM 3520	Mechanics of Materials	3
	Credits	12
Semester Six		
ABE 3612C	Heat and Mass Transfer in Biological Systems	4
Select one:		3-4
CGN 3421	Computer Methods in Civil Engineering	
ENV 3040C	Computational Methods in Environmental Engineering	
ESI 3327C	Matrix and Numerical Methods in Systems Engineering	
EGM 3400	Elements of Dynamics	2
ENC 3246	Professional Communication for Engineers (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
Technical elective		3
	Credits	15-16
Semester Seven		
ABE 3000C	Applications in Biological Engineering	3
ABE 3212C	Land and Water Resources Engineering	4
ABE 3652C or CGN 3501C	Physical and Rheological Properties of Biological Materials or Civil Engineering Materials	3-4
ABE 4931	Professional Issues in Agricultural and Biological Engineering	1
EGN 3353C or CWR 3201	Fluid Mechanics or Hydrodynamics	3-4
	Credits	14-16
Semester Eight		
ABE 4042C	Biological Engineering Design 1	2
ABE 4171	Power and Machines for Biological Systems	3
CEG 4011	Soil Mechanics	4
Department elective		3
Technical elective		3
	Credits	15
Semester Nine		
ABE 4033	Fundamentals and Applications of Biosensors	3

ABE 4043C	Biological Engineering Design 2	2
ABE 4413C	Post-Harvest Operations Engineering	3
Engineering electives		6
	Credits	14
	Total Credits	128

Academic Learning Compact

The curriculum emphasizes engineering solutions to problems associated with biological and agricultural systems that often are related to renewable natural resources. Students gain knowledge through formal courses, laboratory experimentation and individual experience. Students will learn to utilize math, science and engineering principles to analyze and interpret data, to design and conduct experiments, systems and components and to effectively communicate results within an appropriate presentation style.

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Before Graduating Students Must

- Pass assessment by two or more faculty and/or industry practitioners of student performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to biological engineering problems. Students will be able to apply fundamental concepts, skills and processes in biological engineering.
2. Design and conduct biological and/or agricultural engineering experiments, analyzing and interpreting the data in biological engineering.

Critical Thinking

3. Design a biological and/or agricultural system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints in biological engineering.

Communication

4. Communicate technical data and design information effectively in writing and in speech to other engineers in biological engineering.

Curriculum Map

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Courses	SLO 1	SLO 2	SLO 3	SLO 4
ABE 2012C	I, A	I, A		
ABE 3612C		R, A		
ABE 4042C	R, A		I, A	I
ABE 4043C	R, A		R, A	R, A

Assessment Types

- Assignments
- Exams
- Design projects and reports

Biological Engineering | Biosystems Engineering

Biological engineering (BE) applies engineering principles to protect natural resources and to produce food, biofuels, pharmaceuticals, and other biobased products. It incorporates foundations of biology with engineering theory and practice to develop sustainable solutions to problems facing a broad range of industries.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
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- **Specializations:** Agricultural Production Engineering (p. 1243) | Biosystems Engineering (p. 1247) | Land and Water Resources Engineering (p. 1252) | Packaging Engineering (p. 1256)
- **Credits for Degree:** 128
- **Additional Information**
- **Related Biological Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Biological engineers pioneer new designs and techniques in such areas as agricultural robotics, remote sensing, bioprocessing, biofuels, precision agriculture, plant space biology, sustainability of our natural resources, and packaging product design and development.

Graduates are educated in the biological and environmental sciences as well as in engineering. They will address critical problems involving land and water resources, biological systems, production agriculture and innovations in packaging. Students can choose a focus area based on their courses of specialization and individual selection of electives. Areas of specialization are biosystems engineering, land and water resources engineering, packaging engineering, and agricultural production engineering.

In addition to abundant job opportunities in Florida's agricultural industry, graduates have career opportunities in biotechnology and in fields related to Florida's water quality and water resources, including water management districts, environmental companies, consulting firms, equipment manufacturers, bio-energy, food engineering and the packaging industry.

The BE curriculum can also fulfill requirements for admission to professional programs as well as to graduate programs including biomedical engineering, civil engineering and mechanical engineering.

Educational Objectives

Graduates from the University of Florida's undergraduate degree program in biological engineering will be prepared for at least one of the following:

- Successful careers in the profession of biological engineering or other related fields.
- Gaining admission to a graduate and/or professional degree program.

Goals

To develop biological engineering professionals with technical proficiency and societal responsibility.

Mission

The department will develop professionals, create and disseminate knowledge, and promote the application of engineering and management principles to meet societal needs with respect to agriculture, packaging, land and water resources, and biological systems.

Related Biological Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Biosystems Engineering

Code	Title	Credits
Required Courses		
ABE 4662	Quantification of Biological Processes	3
Electives		
Department Electives (minimum)		9
Engineering Electives (minimum)		11
Technical Electives		6
Total Credits		29

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=144501&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 8 tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, CHM 2046 or CHM 2096, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Humanities with Diversity or International (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences with Diversity or International (p. 23)		3
	Credits	14
Semester Two		
Select one:		3
ABE 2062	Biology for Engineers (Gen Ed Biological and Physical Sciences)	
BSC 2010	Integrated Principles of Biology 1 (Gen Ed Biological and Physical Sciences)	
Select one:		3
CHM 2046	General Chemistry 2 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Biological and Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
	Credits	14

Semester Three		
ABE 2012C	Introduction to Biological Engineering	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Biological and Physical Sciences)	1
Select one:		3
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23))	
ENC 1102	Argument and Persuasion (State Core Gen Ed Composition (p. 23))	
	Credits	14
Semester Four		
EGM 2511	Engineering Mechanics: Statics	3
EML 3007	Elements of Thermodynamics and Heat Transfer	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**; Gen Ed Mathematics)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Biological and Physical Sciences)	1
Gen Ed Social and Behavioral Sciences with Diversity or International		3
	Credits	16
Semester Five		
CGN 2328 or EML 2023	Technical Drawing and Visualization or Computer Aided Graphics and Design	3
CGN 3710 or EEL 3003	Experimentation and Instrumentation in Civil Engineering or Elements of Electrical Engineering	3
CHM 2200 or BCH 3023	Fundamentals of Organic Chemistry or Elementary Organic and Biological Chemistry	3
EGM 3520	Mechanics of Materials	3
	Credits	12
Semester Six		
ABE 3612C	Heat and Mass Transfer in Biological Systems	4
Select one:		3-4
CGN 3421	Computer Methods in Civil Engineering	
ENV 3040C	Computational Methods in Environmental Engineering	
ESI 3327C	Matrix and Numerical Methods in Systems Engineering	
EGM 3400	Elements of Dynamics	2
ENC 3246	Professional Communication for Engineers (Gen Ed Composition)	3
Technical elective		3
	Credits	15-16
Semester Seven		
ABE 3000C	Applications in Biological Engineering	3
ABE 3652C or CGN 3501C	Physical and Rheological Properties of Biological Materials or Civil Engineering Materials	3-4
ABE 4931	Professional Issues in Agricultural and Biological Engineering	1
EGN 3353C or CWR 3201	Fluid Mechanics or Hydrodynamics	3-4
Departmental elective		3
	Credits	13-15
Semester Eight		
ABE 4042C	Biological Engineering Design 1	2
ABE 4171	Power and Machines for Biological Systems	3
ABE 4662	Quantification of Biological Processes	3
Engineering electives		6
	Credits	14
Semester Nine		
ABE 3212C	Land and Water Resources Engineering	4
ABE 4043C	Biological Engineering Design 2	2
Departmental electives		6-7
Engineering elective		1
Technical elective		3
	Credits	16-17
	Total Credits	128

Departmental Electives

Code	Title	Credits
ABE 3212C	Land and Water Resources Engineering	4
ABE 4033	Fundamentals and Applications of Biosensors	3
ABE 4034	Remote Sensing in Engineering: Science, Sensors and Applications	3
ABE 4231C	Irrigation and Drainage Engineering	4
ABE 4413C	Post-Harvest Operations Engineering	3
ABE 4655C	Bio-Based Products from Renewable Resources	3
ABE 4812	Food and Bioprocess Engineering Unit Operations	4
ABE 4932	Special Topics	1-4
ABE 4949	Work Experience in Biological Engineering	1-3
Course with a prefix of AOM or PKG		3

Academic Learning Compact

The curriculum emphasizes engineering solutions to problems associated with biological and agricultural systems that often are related to renewable natural resources. Students gain knowledge through formal courses, laboratory experimentation and individual experience. Students will learn to utilize math, science and engineering principles to analyze and interpret data, to design and conduct experiments, systems and components and to effectively communicate results within an appropriate presentation style.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass assessment by two or more faculty and/or industry practitioners of student performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to biological engineering problems. Students will be able to apply fundamental concepts, skills and processes in biological engineering.
2. Design and conduct biological and/or agricultural engineering experiments, analyzing and interpreting the data in biological engineering.

Critical Thinking

3. Design a biological and/or agricultural system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints in biological engineering.

Communication

4. Communicate technical data and design information effectively in writing and in speech to other engineers in biological engineering.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
ABE 2012C	I, A	I, A		
ABE 3612C		R, A		
ABE 4042C	R, A		I, A	I
ABE 4043C	R, A		R, A	R, A

Assessment Types

- Assignments
- Exams
- Design projects and reports

Biological Engineering | Land and Water Resources Engineering

Biological engineering (BE) applies engineering principles to protect natural resources and to produce food, biofuels, pharmaceuticals, and other biobased products. It incorporates foundations of biology with engineering theory and practice to develop sustainable solutions to problems facing a broad range of industries.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Biological Engineering
- **Specializations:** Agricultural Production Engineering (p. 1243) | Biosystems Engineering (p. 1247) | Land and Water Resources Engineering (p. 1252) | Packaging Engineering (p. 1256)
- **Credits for Degree:** 128
- **Additional Information**
- **Related Biological Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Biological engineers pioneer new designs and techniques in such areas as agricultural robotics, remote sensing, bioprocessing, biofuels, precision agriculture, plant space biology, sustainability of our natural resources, and packaging product design and development.

Graduates are educated in the biological and environmental sciences as well as in engineering. They will address critical problems involving land and water resources, biological systems, production agriculture and innovations in packaging. Students can choose a focus area based on their courses of specialization and individual selection of electives. Areas of specialization are biosystems engineering, land and water resources engineering, packaging engineering, and agricultural production engineering.

In addition to abundant job opportunities in Florida's agricultural industry, graduates have career opportunities in biotechnology and in fields related to Florida's water quality and water resources, including water management districts, environmental companies, consulting firms, equipment manufacturers, bio-energy, food engineering and the packaging industry.

The BE curriculum can also fulfill requirements for admission to professional programs as well as to graduate programs including biomedical engineering, civil engineering and mechanical engineering.

Educational Objectives

Graduates from the University of Florida's undergraduate degree program in biological engineering will be prepared for at least one of the following:

- Successful careers in the profession of biological engineering or other related fields.
- Gaining admission to a graduate and/or professional degree program.

Goals

To develop biological engineering professionals with technical proficiency and societal responsibility.

Mission

The department will develop professionals, create and disseminate knowledge, and promote the application of engineering and management principles to meet societal needs with respect to agriculture, packaging, land and water resources, and biological systems.

Related Biological Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Land and Water Resources Engineering

Code	Title	Credits
Required Courses		
ABE 4231C	Irrigation and Drainage Engineering	4
CEG 4011	Soil Mechanics	4

CWR 4202	Hydraulics	3
SUR 3103C	Geomatics	3
Electives		
Department electives (minimum)		3
Engineering electives (minimum)		4
Technical Elective		3
Total Credits		24

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=144501&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 8 tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, CHM 2046 or CHM 2096, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA on all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional tracking course with a minimum grade of C within two attempts
- 2.5 GPA on all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional tracking courses with minimum grades of C within two attempts
- 2.5 GPA on all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional tracking courses with minimum grades of C within two attempts
- 2.5 GPA on all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA on all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Biological or Physical Sciences)	1
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Humanities with Diversity or International (p. 23)		3

State Core Gen Ed Social and Behavioral Sciences with Diversity or International (p. 23)		3
	Credits	14
Semester Two		
Select one:		3
ABE 2062	Biology for Engineers (Gen Ed Biological and Physical Sciences)	
BSC 2010	Integrated Principles of Biology 1 (Gen Ed Biological and Physical Sciences)	
Select one:		3
CHM 2046	General Chemistry 2 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Biological and Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
	Credits	14
Semester Three		
ABE 2012C	Introduction to Biological Engineering	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Biological and Physical Sciences)	1
Select one:		3
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23))	
ENC 1102	Argument and Persuasion (State Core Gen Ed Composition (p. 23))	
	Credits	14
Semester Four		
EGM 2511	Engineering Mechanics: Statics	3
EML 3007	Elements of Thermodynamics and Heat Transfer	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**; Gen Ed Mathematics)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Biological and Physical Sciences)	1
Gen Ed Social and Behavioral Sciences with Diversity or International		3
	Credits	16
Semester Five		
CGN 2328 or EML 2023	Technical Drawing and Visualization or Computer Aided Graphics and Design	3
CGN 3710 or EEL 3003	Experimentation and Instrumentation in Civil Engineering or Elements of Electrical Engineering	3
CHM 2200 or BCH 3023	Fundamentals of Organic Chemistry or Elementary Organic and Biological Chemistry	3
EGM 3520	Mechanics of Materials	3
	Credits	12
Semester Six		
ABE 3612C	Heat and Mass Transfer in Biological Systems	4
EGM 3400	Elements of Dynamics	2
ENC 3246	Professional Communication for Engineers (Gen Ed Composition)	3
ENV 3040C	Computational Methods in Environmental Engineering	3
SUR 3103C	Geomatics	3
	Credits	15
Semester Seven		
ABE 3000C	Applications in Biological Engineering	3
ABE 3212C	Land and Water Resources Engineering	4
ABE 3652C or CGN 3501C	Physical and Rheological Properties of Biological Materials or Civil Engineering Materials	3-4
ABE 4931	Professional Issues in Agricultural and Biological Engineering	1
CWR 3201	Hydrodynamics	4
	Credits	15-16
Semester Eight		
ABE 4042C	Biological Engineering Design 1	2
ABE 4171	Power and Machines for Biological Systems	3
ABE 4231C	Irrigation and Drainage Engineering	4
CWR 4202	Hydraulics	3

CEG 4011	Soil Mechanics	4
	Credits	16
Semester Nine		
ABE 4043C	Biological Engineering Design 2	2
Department elective		3
Engineering elective		4
Technical elective		3
	Credits	12
	Total Credits	128

Academic Learning Compact

The curriculum emphasizes engineering solutions to problems associated with biological and agricultural systems that often are related to renewable natural resources. Students gain knowledge through formal courses, laboratory experimentation and individual experience. Students will learn to utilize math, science and engineering principles to analyze and interpret data, to design and conduct experiments, systems and components and to effectively communicate results within an appropriate presentation style.

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Students in the Major Will Learn to

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1. Apply knowledge of mathematics, science and engineering principles to biological engineering problems. Students will be able to apply fundamental concepts, skills and processes in biological engineering.
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ABE 3612C		R, A		
ABE 4042C	R, A		I, A	I
ABE 4043C	R, A		R, A	R, A

Assessment Types

- Assignments
- Exams
- Design projects and reports

Biological Engineering | Packaging Engineering

Biological engineering (BE) applies engineering principles to protect natural resources and to produce food, biofuels, pharmaceuticals, and other biobased products. It incorporates foundations of biology with engineering theory and practice to develop sustainable solutions to problems facing a broad range of industries.

About this Program

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- **Degree:** Bachelor of Science in Biological Engineering
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- **Credits for Degree:** 128
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Related Biological Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Packaging Engineering

Code	Title	Credits
Required Courses		
EMA 3010	Materials	3
EMA 3066	Introduction to Organic Materials	3
PKG 3001	Principles of Packaging	3
PKG 3103	Food Packaging	3
PKG 4008	Distribution and Transport Packaging	3
PKG 4101C	Computer Tools for Packaging	3
PKG 4011	Packaging Production and Processing	3

Technical Electives	3
Total Credits	24

Critical Tracking

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Semester 1

- Complete 1 of 8 tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, CHM 2046 or CHM 2096, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Biological and Physical Sciences)	1
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Humanities with Diversity or International (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences with Diversity or International (p. 23)		3
	Credits	14
Semester Two		
ABE 2062	Biology for Engineers	3
or BSC 2010	or Integrated Principles of Biology 1	
Select one:		3

CHM 2046	General Chemistry 2 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Biological and Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
	Credits	14
Semester Three		
ABE 2012C	Introduction to Biological Engineering	3
Select one:		3
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23))	
ENC 1102	Argument and Persuasion (State Core Gen Ed Composition (p. 23))	
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Biological and Physical Sciences)	1
	Credits	14
Semester Four		
EGM 2511	Engineering Mechanics: Statics	3
EML 3007	Elements of Thermodynamics and Heat Transfer	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**; Gen Ed Mathematics)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Biological and Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Biological and Physical Sciences)	1
Gen Ed Social and Behavioral Sciences with Diversity or International		3
	Credits	16
Summer After Semester Four		
CGN 3710 or EEL 3003	Experimentation and Instrumentation in Civil Engineering or Elements of Electrical Engineering	3
CHM 2200 or BCH 3023	Fundamentals of Organic Chemistry or Elementary Organic and Biological Chemistry	3
EGM 3520	Mechanics of Materials	3
Approved Technical elective		3
	Credits	12
Semester Six		
ABE 3612C	Heat and Mass Transfer in Biological Systems	4
Select one:		3-4
CGN 3421	Computer Methods in Civil Engineering	
ENV 3040C	Computational Methods in Environmental Engineering	
ESI 3327C	Matrix and Numerical Methods in Systems Engineering	
EGM 3400	Elements of Dynamics	2
ENC 3246	Professional Communication for Engineers (Gen Ed Composition)	3
PKG 3001	Principles of Packaging	3
	Credits	15-16
Semester Seven		
ABE 3000C	Applications in Biological Engineering	3
ABE 4033 or ABE 4413C	Fundamentals and Applications of Biosensors or Post-Harvest Operations Engineering	3
EMA 3010	Materials	3
PKG 4101C	Computer Tools for Packaging	3
PKG 4011	Packaging Production and Processing	3
	Credits	15
Semester Eight		
ABE 4042C	Biological Engineering Design 1	2
ABE 4171	Power and Machines for Biological Systems	3
EGN 3353C or CWR 3201	Fluid Mechanics or Hydrodynamics	3-4
EMA 3066	Introduction to Organic Materials	3
PKG 3103	Food Packaging	3
Elective		1
	Credits	15-16
Semester Nine		
ABE 4043C	Biological Engineering Design 2	2

ABE 4931	Professional Issues in Agricultural and Biological Engineering	1
PKG 4008	Distribution and Transport Packaging	3
Approved Engineering elective		3
Approved Technical electives		4
	Credits	13
	Total Credits	128

Approved Electives

Code	Title	Credits
Technical Electives		
AEB 3300	Agricultural and Food Marketing	3
AEB 3133	Principles of Agribusiness Management	3
AEC 3414	Leadership Development	3
AEC 3070C	Digital Media Production in Agricultural and Life Sciences	3
AEC 4036	Advanced Agricultural Communication Production	3
AOM 4062	Principles of Food Engineering	4
FOS 3042	Introductory Food Science	3
FOS 4427C	Principles of Food Processing	4
FOS 4731	Government Regulations and the Food Industry	2
PKG 4941	Work Experience in Packaging Engineering	3
Engineering Electives		
EGN 4641	Engineering Entrepreneurship	3
EGN 4643	Engineering Innovation	3
EGN 4912	Engineering Directed Independent Research	0-3
EMA 3011	Fundamental Principles of Materials	3
EMA 3513C	Analysis of the Structure of Materials	4
EMA 3800	Error Analyses and Optimization Methodologies in Materials Research	3
EMA 4062	Biopolymers: Manufacture, Stability and Biocompatibility	3
EMA 4223	Mechanical Behavior of Materials	3
EMA 4666	Polymer Processing	3
PKG 4941	Work Experience in Packaging Engineering	3

Academic Learning Compact

The curriculum emphasizes engineering solutions to problems associated with biological and agricultural systems that often are related to renewable natural resources. Students gain knowledge through formal courses, laboratory experimentation and individual experience. Students will learn to utilize math, science and engineering principles to analyze and interpret data, to design and conduct experiments, systems and components and to effectively communicate results within an appropriate presentation style.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass assessment by two or more faculty and/or industry practitioners of student performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to biological engineering problems. Students will be able to apply fundamental concepts, skills and processes in biological engineering.
2. Design and conduct biological and/or agricultural engineering experiments, analyzing and interpreting the data in biological engineering.

Critical Thinking

3. Design a biological and/or agricultural system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints in biological engineering.

Communication

4. Communicate technical data and design information effectively in writing and in speech to other engineers in biological engineering.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
ABE 2012C	I, A	I, A		
ABE 3612C		R, A		
ABE 4042C	R, A		I, A	I
ABE 4043C	R, A		R, A	R, A

Assessment Types

- Assignments
- Exams
- Design projects and reports

Biomaterials Certificate

The biomaterials certificate emphasizes biomedical materials and provides a foundation in the areas of biocompatibility, the biological performance of materials, and material design and selection for medical applications.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 10 | Completed with minimum grades of C

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisite Courses

Code	Title	Credits
CHM 2045	General Chemistry 1	3
or CHM 2095	Chemistry for Engineers 1	
CHM 2046	General Chemistry 2	3
or CHM 2096	Chemistry for Engineers 2	
EMA 3010	Materials	3
Select one:		3
EMA 3011	Fundamental Principles of Materials	
CHM 2200	Fundamentals of Organic Chemistry	
CHM 2210	Organic Chemistry 1	
EMA 3066	Introduction to Organic Materials	3

Required Courses

Code	Title	Credits
EMA 4061	Biomaterials: Structure and Properties	3
EMA 4062	Biopolymers: Manufacture, Stability and Biocompatibility	3
EMA 4161	Physical Properties of Polymers	4
& 4161L	and Polymers Laboratory	
Total Credits		10

Biomechanics Minor

Biomechanics, a subfield of biomedical engineering, blends the life sciences with the traditional engineering disciplines of dynamics, solid mechanics and fluid mechanics. The Department of Mechanical and Aerospace Engineering administers this minor.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 16
- **Related Mechanical and Aerospace Engineering Programs**

Students in mechanical engineering can apply biomechanics minor coursework toward their science and technical electives.

Required Courses

Code	Title	Credits
Select two:		6
EGM 4590	Biodynamics	
EGM 4592	Bio-Solid Mechanics	
EGM 4853	Bio-Fluid Mechanics and Bio-Heat Transfer	
APK 2100C	Applied Human Anatomy with Laboratory	4
or APK 2105C	Applied Human Physiology with Laboratory	
Approved electives		6
Total Credits		16

Approved Electives

Code	Title	Credits
ABE 3000C	Applications in Biological Engineering	3
ABE 3612C	Heat and Mass Transfer in Biological Systems	4
ABE 4662	Quantification of Biological Processes	3
APK 3220C	Biomechanical Basis of Movement	3
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
BSC 2010	Integrated Principles of Biology 1	3
BSC 2010L	Integrated Principles of Biology Laboratory 1	1
BSC 2011	Integrated Principles of Biology 2	3
BSC 2011L	Integrated Principles of Biology Laboratory 2	1
CHM 2046	General Chemistry 2	3
CHM 2046L	General Chemistry 2 Laboratory	1
CHM 2096	Chemistry for Engineers 2	3
CHM 2200	Fundamentals of Organic Chemistry	3
CHM 2200L	Fundamentals of Organic Chemistry Laboratory	1
CHM 2210	Organic Chemistry 1	3
CHM 2211	Organic Chemistry 2	3
CHM 2211L	Organic Chemistry Laboratory	2
OTH 3413C	Applied Kinesiology	3
OTH 4412	Musculoskeletal Anatomy	3
OTH 4412L	Musculoskeletal Anatomy Laboratory	2
PHZ 4710	Introduction to Biological physics	3
STA 3032	Engineering Statistics	3

Related Mechanical and Aerospace Engineering Programs

- Bachelor of Science in Aerospace Engineering (p. 1237)
- Bachelor of Science in Mechanical Engineering (p. 1311)

Biomedical Engineering

The biomedical engineering (BME) field has grown rapidly in the last 20 years. This growth was fueled by breakthroughs in molecular biology and many engineering technologies, symbolized by the Human Genome Project, arguably the greatest biomedical engineering accomplishment ever, and realized

with creation of the National Institute of Biomedical Imaging and Bioengineering. BME now is clearly recognized as an integral part of the nation's and the world's efforts to deliver more effective and efficient medical care.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Biomedical Engineering
- **Credits for Degree:** 131
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

A biomedical engineer uses traditional engineering expertise to analyze and solve problems in biology and medicine, providing an overall enhancement of health care. Students choose biomedical engineering to serve people, to work with living systems and to apply advanced technology to the complex problems of medical care. The biomedical engineer is called upon to design instruments, devices and software, to bring together knowledge from many technical sources to develop new procedures and to conduct the research needed to solve clinical problems.

Bioengineering integrates sciences and engineering for the study of biology, medicine, behavior or health. It advances fundamental concepts, creates knowledge for the molecular to the organ systems levels, and develops innovative biologics, materials, processes, implants and devices. Biomedical engineers create informatics approaches to prevent, diagnose and treat disease, applying systematic, quantitative and integrative thinking and solutions to problems important to biology, medical research and population studies.

BME typically is among the three most popular engineering majors and very often is the largest. The job market in biomedical engineering is the fastest growing of all engineering disciplines. It has become clear that the nation needs a variety of engineers with knowledge of biomedicine, including a cadre of exceptional people whose education thoroughly immerses them in engineering and biomedicine. The intellectual foundation of this limited-access undergraduate program is captured in this vision: Biomedicine comprises the science core while engineering provides the framework for inquiry. The curriculum incorporates exceptional rigor in both.

Educational Objectives

The program educational objectives of the J. Crayton Pruitt Family Department of Biomedical Engineering at the University of Florida are that:

1. Graduates will excel in top graduate programs of professional schools and will have successful careers in a multi-disciplinary, global industry.
2. Graduates will be active leaders in their profession, creating innovative, ethical and socially beneficial solutions to human health problems.

Department Vision Statement

The faculty, students, and alumni of the J. Crayton Pruitt Family Department of Biomedical Engineering will lead in the discovery and development of innovative biomedical solutions to improve healthcare in the State of Florida and worldwide. To achieve this vision, the department will leverage the unique co-localization of talent and resources in engineering, biology, medicine, veterinary science, dentistry, and technology commercialization at the University of Florida, thereby maximizing opportunities for interdisciplinary student education and clinical translation of technologies to improve human health.

Department Mission

The J. Crayton Pruitt Family Department of Biomedical Engineering at the University of Florida is dedicated to developing innovative and clinically translatable biomedical technologies, educating future generations of biomedical engineers, and cultivating leaders, by nurturing the integration of engineering, science, and healthcare in a collaborative and dynamic educational and research environment.

Admission Requirements

The biomedical engineering undergraduate major is a limited enrollment program. Students who enter the University of Florida as freshmen identify pre-BME as their major of choice and begin enrolling in the required critical tracking courses to prepare for upper division.

During the fall semester of sophomore year (semester 3), pre-BME majors apply for admission to the upper division major, which begins in the spring semester of sophomore year (semester 4).

Current UF students must meet the following minimum requirements to be considered for admission to the upper division program.

- Minimum 3.0 grade point average in critical tracking courses (best attempt)*
- No more than two attempts allowed for each critical tracking course (withdrawals included)
- Minimum grade of C in each critical tracking course
- Completion of the first three semesters of the Model Plan of Study by Fall semester of application
- BME Departmental online application

*Only the best attempt in each critical tracking course is considered for admission to the upper division program.

All application requirements and details are available on the department website (http://bme.ufl.edu/academics/undergraduate/admissions).

Department Requirements

Minimum grades of C are required for BME 3508, BME 3053C, CHM 3217, COP 2271, COP 2271L, EEL 3003, and ENC 3246. The minimum C grade is part of the prerequisite requirement for several 3000/4000-level BME courses. The prerequisite course and subsequent course cannot be taken in the same term, even if the prerequisite is being repeated.

All BME Electives must be selected from an approved list. Students may petition to take courses not included in the approved list toward this requirement. The BME Electives allow students to explore topic areas within their interests and are designed to build upon biomedical engineering foundation courses and laboratories.

A biomedical engineering student whose cumulative, upper-division or department grade point average falls below a 2.0 or whose critical tracking grades do not meet department requirements will be placed on academic probation and be required to complete a probation contract with a BME academic advisor. Students normally are allowed a maximum of two terms (consecutive or non-consecutive) on academic probation. Students who do not satisfy the conditions of the first term of probation may be dismissed from the department.

All graduating seniors must complete an exit interview with their advisor before graduating.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=140501&track=01) may be used for transfer students.

Semester 1

- Complete 3 of 11 critical-tracking courses with minimum grades of C within two attempts: BSC 2010; CHM 2045 or CHM 2095; CHM 2046 or CHM 2096; MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048; PHY 2049; BME 3060 and PCB 3713C
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 3 additional critical-tracking courses with minimum grades of C within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete all critical-tracking courses with minimum grades of C within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

This program is limited access and competitive. Students cannot register for courses in semesters 5-8 before they have been admitted to the biomedical engineering major.

Course	Title	Credits
Semester One		
BME 1008	Introduction to Biomedical Engineering	1
BSC 2010	Integrated Principles of Biology 1 (**Critical Tracking**; Gen Ed Biological Sciences)	3
BSC 2010L	Integrated Principles of Biology Laboratory 1 (Gen Ed Biological and Physical Sciences)	1
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; Gen Ed Mathematics)	4
	Credits	16
Semester Two		
Select one:		3
CHM 2046	General Chemistry 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**)	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Physical Sciences)	1
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
	Credits	15
Semester Three		
CHM 3217	Organic Chemistry/Biochemistry 1 [1]	4
COP 2271	Computer Programming for Engineers [4]	2
COP 2271L	Computer Programming for Engineers Laboratory [4]	1
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Physical Sciences)	1
	Credits	15
Semester Four		
BME 3053C	Computer Applications for BME	2
BME 3060	Biomedical Fundamentals (**Critical Tracking**)	3
EEL 3003	Elements of Electrical Engineering	3
ENC 3246	Professional Communication for Engineers (Gen Ed Composition; writing requirement)	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**; Gen Ed Mathematics)	3
PCB 3713C	Cellular and Systems Physiology (**Critical Tracking**)	4
	Credits	18
Semester Five		
BME 3101	Biomedical Materials	3
BME 3508	Biosignals and Systems	3
BME 4311	Molecular Biomedical Engineering	3
BME 4503	Biomedical Instrumentation	3
BME 4503L	Biomedical Instrumentation Laboratory	1
EGM 2511	Engineering Mechanics: Statics	3
	Credits	16
Semester Six		
BME 3012	Clinically-Inspired Engineering Design	3
BME 3323L	Cellular Engineering Laboratory	3
BME 4632	Biomedical Transport Phenomena	3
STA 3032	Engineering Statistics	3
Gen Ed Social and Behavioral Sciences with International; Writing Requirement: 6,000 words [3]		3
BME elective [2]		3
	Credits	18
Semester Seven		
BME 4409	Quantitative Physiology	3
BME 4621	Biomolecular Thermodynamics and Kinetics	3
BME 4882	Senior Design, Professionalism and Ethics 1	3
State Core Gen Ed Social and Behavioral Sciences (p. 23) [3]		3

BME electives [2]		6
	Credits	18
Semester Eight		
BME 4531	Medical Imaging	3
BME 4883	Senior Design, Professionalism and Ethics 2	3
State Core Gen Ed Humanities with Diversity (p. 23) [3]		3
BME electives [2]		6
	Credits	15
	Total Credits	131

1. Can substitute CHM 2210 and CHM 2211.
2. BME Electives: A total of 15 credits of 3000/4000-level courses (9 credits of engineering electives and 6 credits technical electives, both of which must be selected from an approved list).
3. Courses should cover 12,000 words.
4. Course and corresponding laboratory to be completed in same language (Matlab or C++).

Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H or S).

Academic Learning Compact

Biomedical engineering blends traditional engineering techniques with biological sciences and medicine to improve the quality of human health and life. The discipline focuses on understanding complex living systems via experimental and analytical techniques and on development of devices, methods and algorithms that advance medical and biological knowledge while improving the effectiveness and delivery of clinical medicine.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass assessment by two or more faculty and/or industry practitioners of student performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete an exit interview in the final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Solve biomedical engineering problems by applying knowledge of mathematics, science and engineering principles.
2. Design and conduct biomedical engineering experiments and analyzing and interpreting the data.

Critical Thinking

3. Design a biomedical device, component, technology or process to meet identified clinical needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and regulatory constraints.

Communication

4. Communicate technical data and design information effectively in speech and in writing to other biomedical engineers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
BME 3060	A	I	I	I
BME 4409	A	I	I	R
BME 4503		R	I	R
BME 4503L		A	R	R

BME 4882	A	A
BME 4883	A	A

Assessment Types

- Assignments
- Exams
- Projects
- Reports
- Presentations

Biomolecular Engineering Minor

This minor is for engineering and science students who desire knowledge of diverse biomedical and biotechnological applications encompassing biomolecular function, interactions and transport.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 15-16 | Completed with minimum grades of C

The Department of Chemical Engineering administers this minor.

Prerequisites

To apply for the minor, students must have completed these eight engineering preprofessional courses with a 2.5 GPA and no course grade lower than C.

Code	Title	Credits
CHM 2045	General Chemistry 1	3
CHM 2046	General Chemistry 2	3
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
MAP 2302	Elementary Differential Equations	3
PHY 2048	Physics with Calculus 1	3
PHY 2049	Physics with Calculus 2	3

Required Courses

Code	Title	Credits
ABE 2062	Biology for Engineers	3
or BSC 2011	Integrated Principles of Biology 2	
BME 3406	Introduction to Biomolecular Engineering	3
ECH 3023	Material and Energy Balances	4
Select two:		5-6
ABE 3000C	Applications in Biological Engineering	
ABE 4662	Quantification of Biological Processes	
ABE 5442	Advanced Process Engineering	
BME 4220	Biomolecular Cell Mechanics	
BME 4321	Dynamics of Cellular Processes	
ECH 4905	Special Problems in Chemical Engineering [1]	
EGN 4912	Engineering Directed Independent Research [2]	
Total Credits		15-16

[1] Nanoscale Transport and other approved electives.

[2] Research problems related to biomolecular engineering.

Chemical Engineering

Although chemical engineering has existed for only 100 years, its name is no longer completely descriptive of this dynamic profession. The work of the chemical engineer is not restricted to the chemical industry, chemical changes or chemistry. Instead, modern chemical engineers are concerned with all the physical, chemical and biological changes of matter that can produce an economic product or result that is useful to mankind.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Chemical Engineering
- **Credits for Degree:** 131
- **Additional Information**
- **Related Chemical Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The education of the chemical engineer is based on the fundamental sciences of physics, chemistry and biology, on mathematical and computer techniques, and on basic engineering principles. This background makes the chemical engineer extremely versatile and capable of working in a variety of industries: chemical, biochemical, petroleum, materials, microelectronics, environmental, food processing, consumer products, consulting and project management. It is also good preparation for law and medical schools.

Department Requirements

Successful applicants must have earned a minimum 2.5 grade point average in the better of two attempts of the eight preprofessional courses and have earned a minimum grade point average in the better of two attempts of 2.5 in the preprofessional calculus course sequence.

For the purposes of determining admission to or retention in the department, grade point averages will be based on no more than two attempts for each course. Students must maintain satisfactory progress (minimum GPA of 2.0) in chemical engineering courses and in their overall record.

To proceed to succeeding courses, minimum grades of C are required in the following within two enrollments (including drops and/or withdrawals) for each course:

Code	Title	Credits
ECH 3023	Material and Energy Balances	4
ECH 3101	Process Thermodynamics	3
ECH 3203	Fluid and Solid Operations	3
ECH 3223	Energy Transfer Operations	3
ECH 3264	Elementary Transport Phenomena	3
COT 3502	Computer Model Formulation	4
ECH 4714	Chemical Process Safety	3

Any course taken to satisfy a degree requirement (general education, required course or technical elective) cannot be taken S-U, with the exception of the following:

Code	Title	Credits
ECH 4912	Integrated Product and Process Design 1	3
ECH 4948	Internship Work Experience	1
ECH 4949	Co-op Work Experience	1

Educational Objectives

Within a few years of obtaining a bachelor's degree in chemical engineering from the University of Florida, the recent graduate will achieve one or more of the following:

- Graduates will demonstrate professional engineering competence via promotions and/or positions of increasing responsibility.
- Graduates will be successful in pursuing advanced degrees in chemical engineering or in other disciplines.
- Graduates will be able to work in diverse professional environments as demonstrated in their pursuit of continuing education, professional certification/registration and/or career path into business, government, education, etc.

The chemical industry alone provides an opportunity for the chemical engineer to participate in the research, development, design or operation of plants for the production of new synthetic fibers, plastics, chemical fertilizers, vitamins, antibiotics, rocket fuels, nuclear fuels, paper pulp, photographic products, paints, fuel cells, semiconductors and the thousands of chemicals that are used as intermediates in the manufacture of these products.

Goal

To prepare students for lifelong careers in chemical engineering.

Mission

To offer high-quality undergraduate and graduate degree programs in chemical engineering and to conduct research that helps educate graduate students and serves the needs of Florida and the nation.

Related Chemical Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=140701&track=01) may be used for transfer students.

Semester 1

- 2.5 GPA in MAC 2311, MAC 2312 and MAC 2313 sequence based on the best of two attempts
- Complete 1 of 8 critical-tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, CHM 2046 or CHM 2096, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses based on the best of two attempts
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses based on the best of two attempts
- 2.5 GPA in MAC 2311, MAC 2312 and MAC 2313 sequence based on the best of two attempts
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses based on the best of two attempts
- 2.5 GPA in MAC 2311, MAC 2312 and MAC 2313 sequence based on the best of two attempts
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA in MAC 2311, MAC 2312 and MAC 2313 sequence based on the best of two attempts
- 2.5 GPA required for all critical-tracking courses based on the best of two attempts
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts and a 2.5 GPA on all critical-tracking courses based on the best of two attempts.
- 2.5 GPA in MAC 2311, MAC 2312 and MAC 2313 sequence based on the best of two attempts
- 2.5 GPA required for all critical-tracking courses based on the best of two attempts
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ABE 2062	Biology for Engineers	3
or BSC 2010	or Integrated Principles of Biology 1	
CHM 2045	General Chemistry 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	3
or CHM 2095	or Chemistry for Engineers 1	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Humanities (p. 23) [2]		3
	Credits	17
Semester Two		
Select one:		3
CHM 2046	General Chemistry 2 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Physical Sciences)	1
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23))	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
State Core Gen Ed Social and Behavioral Sciences (p. 23) [2]		3
	Credits	18
Semester Three		
ECH 3023	Material and Energy Balances [1]	4
ECH 4934	Professional Seminar	1
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**)	4
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Physical Sciences)	1
	Credits	16
Semester Four		
CHM 4411	Physical Chemistry: Thermodynamics and Kinetics [5]	3-4
or PHY 3513	or Thermal Physics 1	
COT 3502	Computer Model Formulation [1]	4
ECH 3264	Elementary Transport Phenomena [1]	3
STA 3032	Engineering Statistics	3
Technical elective		3
	Credits	16-17
Semester Five		
CHM 2210	Organic Chemistry 1	3
ECH 3101	Process Thermodynamics [1]	3
ECH 3203	Fluid and Solid Operations [1]	3
ECH 3223	Energy Transfer Operations [1]	3
ENC 3246	Professional Communication for Engineers (Gen Ed Composition)	3
	Credits	15
Semester Six		
CHM 2211	Organic Chemistry 2	5
& 2211L	and Organic Chemistry Laboratory	
ECH 4123	Phase and Chemical Equilibria	3
ECH 4224L	Fluid and Energy Transfer Operations Laboratory [3]	2
ECH 4403	Separation and Mass Transfer Operations	3
ECH 4714	Chemical Process Safety	3
	Credits	16
Semester Seven		
CGN 3710	Experimentation and Instrumentation in Civil Engineering	3
or EEL 3003	or Elements of Electrical Engineering	
ECH 4404L	Separation and Mass Transfer Operations Laboratory	2
ECH 4504	Chemical Kinetics and Reactor Design	4

ECH 4604	Process Economics and Optimization	3
ECH 4824	Materials of Chemical Engineering	2
Technical elective		3
	Credits	17
Semester Eight		
ECH 4323 & 4323L	Process Control Theory and Chemical Engineering Laboratory [5]	4
ECH 4644	Process Design [4]	3
State Core Gen Ed Social and Behavioral Sciences (p. 23) [2]		3
Chemical engineering technical elective		3
Technical elective		3
	Credits	16
	Total Credits	131

1. Minimum grade of C required.
2. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H or S).
3. Register for ECH 4224L immediately following completion of ECH 3101, ECH 3203 and ECH 3223.
4. The Integrated Product and Process Design program (ECH 4912 and ECH 4913) requires six credits of coursework and is offered as a sequence of two three-credit courses during fall and spring of the senior year. These two courses are pre-approved substitutes for three credits of technical electives and for ECH 4644.
5. If the Physical Chemistry Topics 3 credit requirement is satisfied by a 4 credit class, the additional credit satisfies 1 credit of the Technical elective requirement.
   Most students will have credit for research or industry experiential education during the previous summer.

Technical Electives

Technical electives are defined as department-approved, upper-division courses with significant technical science, engineering, and/or math content. Provision is made to receive up to five credits of approved co-op, internship and/or research experience with no more than three credits coming from industry work and no more than three coming from academic research. Military courses cannot be used for technical electives.

Academic Learning Compact

The chemical engineering program enables students to apply knowledge of mathematics, science and engineering principles to chemical engineering problems; to design and conduct chemical engineering experiments and to analyze and interpret the data; to design a chemical engineering system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints; and to communicate technical data and design information effectively in speech and in writing to other chemical engineers.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to chemical engineering problems.
2. Design and conduct chemical engineering experiments and analyze and interpret the data.

Critical Thinking

3. Design a chemical engineering system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints.

Communication

4. Communicate technical data and design information effectively in writing and in speech to other chemical engineers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
ECH 3101	A			
ECH 3223	A		I	
ECH 4224L		I		
ECH 4404L		I		
ECH 4644			A	A
ECH 4934				A

Assessment Types

- Exams
- Oral and written reports
- Group presentations
- Co-op and internship employer evaluations
- Additional assessments include the student survey and exit interview

Civil Engineering

Civil engineering is the oldest and most diverse branch of engineering. In its broadest sense, the civil engineer adapts the physical features of the earth to the needs of society. Approximately one out of four engineers is engaged in civil engineering.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Civil Engineering
- **Credits for Degree:** 128
- **Additional Information**
- **Related Civil Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Civil engineering includes the design and construction of bridges, buildings, dams, waterways, coastal protection works, airports, pipelines, space launching facilities, railroads, highways, sanitary systems, ocean structures and facilities, foundations, harbors, waterworks and many other systems and structures upon which modern civilization depends.

Department Requirements

A minimum grade of C is required for all courses marked below. A minimum GPA of 2.0 is required for all civil engineering courses. Before graduating, all BSCE students must take the Fundamentals of Engineering exam.

The basic program provides the minimum education for practice. Beyond the bachelor's degree, advanced degrees are available in geosensing, transportation, water resources, structural engineering, geotechnical engineering, construction, public works, civil engineering materials, and coastal and oceanographic engineering.

Educational Objectives

The undergraduate program in civil engineering will prepare graduates to

- Meet the needs and expectations of civil engineering employers and proceed toward the attainment of a Professional Engineering (P.E.) license;
- Continue their education and pursue advanced degrees if they so desire.

Goals

- To develop civil engineering professionals with proficiency in the fundamentals of science and engineering;
- To develop an understanding of the planning, design, construction and operation of civil engineering projects;
- To develop enhanced communication skills;
- To develop an appreciation of professionalism and ethics in the practice of engineering.

Mission

The department strives to build upon a leading program of exceptional teaching, innovative research and dedicated service by maintaining a strong curriculum, a highly qualified and committed faculty, outstanding facilities and essential funding.

Related Civil Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=140801&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 7 critical-tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 7 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CGN 2002	Introduction to Civil Engineering	1

Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences) [1]	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; Gen Ed Mathematics) [1]	4
	Credits	15
Semester Two		
ENC 3246	Professional Communication for Engineers (Gen Ed Composition; Writing Requirement: 6,000 words) [1]	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences) [1]	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
State Core Gen Ed Humanities (p. 23) [1]		3
State Core Gen Ed Social and Behavioral Sciences (p. 23) [1]		3
	Credits	17
Semester Three		
COP 2271	Computer Programming for Engineers	2
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics) [1]	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences) [1]	3
PHY 2049L	Laboratory for Physics with Calculus 2	1
STA 3032	Engineering Statistics	3
Gen Ed Social and Behavioral Sciences with International; Writing Requirement: 6,000 words		3
	Credits	16
Semester Four		
CGN 2328	Technical Drawing and Visualization	3
CGN 3710	Experimentation and Instrumentation in Civil Engineering	3
EGM 2511	Engineering Mechanics: Statics [1]	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**; Gen Ed Mathematics) [1]	3
Science elective		3
	Credits	15
Semester Five		
CGN 3501C	Civil Engineering Materials	4
CGN 4160	Civil Engineering Practice [1]	3
CGN 3510	Introduction to Sustainable Engineering	3
EGM 3400	Elements of Dynamics [1]	2
EGM 3520	Mechanics of Materials [1]	3
Select one:		3
ARC 4310C	Building Information Modeling	
ARC 4511	Structural Modeling	
GIS 3072C	Geographic Information Systems	
SUR 3103C	Geomatics	
SWS 4720C	GIS in Soil and Water Science	
URP 4273	Survey of Planning Information Systems	
	Credits	18
Semester Six		
CEG 4011	Soil Mechanics	4
CES 3102	Mechanics of Engineering Structures [1]	4
CWR 3201	Hydrodynamics [1]	4
TTE 4004C	Transportation Engineering [1]	4
	Credits	16
Semester Seven		
CGN 3421	Computer Methods in Civil Engineering	3
EGS 4034	Engineering Ethics and Professionalism	1
Second-Level Core courses		9
Approved Technical elective		3
	Credits	16
Semester Eight		
Second-Level Core course		3

CGN 4806 or CGN 4910	Transportation-Water-Materials Design or Structures-Geotechnical-Construction Comprehensive System Design	3
Approved Design elective		3
Approved Technical electives		6
	Credits	15
	Total Credits	128

[1] Minimum grade of C required.

Approved Electives

Science Electives

Code	Title	Credits
BSC 2010	Integrated Principles of Biology 1	3
EES 4103 & EES 4102L	Applied Ecology and Environmental Biology Laboratory	3
GEO 2242	Extreme Weather	3
GEO 3250	Climatology	3
GLY 2030C	Environmental and Engineering Geology	3
MET 3503	Weather and Forecasting	3

Second-Level Core Classes

Code	Title	Credits
CEG 4012	Geotechnical Engineering	3
CES 4702	Analysis and Design in Reinforced Concrete	3
CGN 4503	Pavement Design	3
CWR 4202	Hydraulics	3
EIN 3354	Engineering Economy	3

Technical Electives

Code	Title	Credits
CCE 4015	Civil Engineering Estimating	3
CCE 4204	Construction Equipment, Methods and Management	3
CCE 4811	Construction Engineering Design	3
CEG 4104	Retaining Wall and Embankment Design	3
CEG 4111	Foundation Engineering Design	3
CES 4141	Matrix Structural Analysis	3
CES 4605	Analysis and Design in Steel	3
CES 4704	Advanced Reinforced Concrete Design	3
CES 4608	Advanced Steel Design	3
CGN 4600	Public Works Engineering and Management Practices	3
CGN 4905	Special Problems in Civil Engineering (Building Codes and Professional Practice)	3
CWR 4114	Surface Hydrology	3
CWR 4120	Groundwater	3
CWR 4306	Urban Stormwater Systems Design	3
CWR 4542	Water Resources Engineering	3
ENV 4514C	Water and Wastewater Treatment	3
SUR 4463	Subdivision Design	3
TTE 4106	Urban Transportation Planning	3
TTE 4201	Traffic Engineering	3
TTE 4300	Transportation Systems Analysis	3
One technical class at 3000/4000 level from outside CE department in geology, environmental engineering, building construction/ architecture or urban and regional planning (or other as approved by advisor)		3

Design Electives | Select at Least One

Code	Title	Credits
CCE 4811	Construction Engineering Design	3
CEG 4104	Retaining Wall and Embankment Design	3
CEG 4111	Foundation Engineering Design	3
CES 4605	Analysis and Design in Steel	3

CES 4704	Advanced Reinforced Concrete Design	3
CES 4608	Advanced Steel Design	3
CWR 4306	Urban Stormwater Systems Design	3
SUR 4463	Subdivision Design	3

Academic Learning Compact

Civil engineering is the oldest and most diverse branch of engineering and includes the design and construction of bridges, buildings, dams, waterways, coastal protection works, airports, pipelines, space launching facilities, railroads, highways, sanitary systems, ocean structures and facilities, foundations, harbors, waterworks and many other systems and structures upon which modern civilization depends. In its broadest sense, the civil engineer adapts the physical features of the earth to the needs of society. Approximately one out of four engineers is engaged in civil engineering.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
- Pass an assessment in two courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete the Fundamentals of Engineering examination.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to civil engineering problems.
2. Conduct civil engineering experiments, analyzing and interpreting the data.

Critical Thinking

3. Design a civil engineering system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints.

Communication

4. Communicate technical data and design information effectively in writing and in speech to other civil engineers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
CEG 4011		A		
CES 3102	A		R	
CES 4702	A		A	
CGN 3501C	R	R		R
CGN 4806			A	A
CGN 4910			A	A
CWR 3201		A		A
EGM 2511	I		I	
EGM 3520	R		R	
ENC 3254				I
PHY 2048L		I		
FE Exam	A		A	
Exit, Employer Surveys	A	A	A	A

Assessment Types

- Laboratory reports
- Exams
- Design projects
- Presentations
- Additional assessments include:
  - The Fundamentals of Engineering (FE) exam
  - The exit and employer surveys

Computer and Information Science and Engineering Minor

This minor provides the academic background in the application of computers to scientific and engineering problems and prepares students for graduate study in computer-related disciplines.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 20-23 | Completed with minimum grades of C
- **Related Computer and Information Science and Engineering Programs**

The Department of Computer and Information Science and Engineering administers this minor, which requires a minimum 2.5 grade point average to apply for admission.

Majors Not Eligible for this Minor

- Computer engineering, computer science, and digital arts and sciences majors (CEN, CSE, CEE, DAS) in the CISE and ECE departments
- Computer science majors (CSC) in the College of Liberal Arts and Sciences

Required Courses

Code	Title	Credits
CDA 3101	Introduction to Computer Organization	3
Select one:		3-6
COP 3502	Programming Fundamentals 1	
& COP 3503	and Programming Fundamentals 2	
COP 3504	Advanced Programming Fundamentals for CIS Majors	
COP 3530	Data Structures and Algorithm	4
COP 4600	Operating Systems	3
COT 3100	Applications of Discrete Structures	3
MAC 2312	Analytic Geometry and Calculus 2	4
Total Credits		20-23

At least three of the CDA, CIS, COP, and COT courses must be taken at UF.

Related Computer and Information Science and Engineering Programs

- Bachelor of Science in Computer Engineering (p. 1276)
- Bachelor of Science in Computer Science, College of Engineering (p. 1281)
- Bachelor of Science in Computer Science, CLAS (p. 662)
- Bachelor of Science in Computer Science, UF Online (p. 658)

Computer Engineering

Computer engineering (CpE) is a discipline that embodies the science and technology of design, construction, implementation and maintenance of software and hardware components of computing systems and computer-controlled equipment. Studies in computer engineering integrate fields from both computer science (CS) and electrical engineering (EE).

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Computer Engineering
- **Credits for Degree:** 126
- **Additional Information**
- **Related Computer Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Computer engineering (CpE) brings a core competency and unique value of integrated knowledge in both computer software and hardware, providing a balance among computer systems, hardware and software as well as theory and applications. Specialization in computer engineering is provided via technical electives from the Department of Computer and Information Science (www.cise.ufl.edu) and Engineering and the Department of Electrical and Computer Engineering (www.ece.ufl.edu). By properly choosing electives, students can specialize in knowledge areas such as computer architecture, computer system engineering, digital signal processing, embedded systems, intelligent systems, networking and communication and security. Also, opportunities for cooperative education provide students a better understanding of the industrial applications of computer engineering technologies. Graduates will be prepared to pursue graduate studies in computer engineering or they can choose from many different careers related to computers and their applications in high technology environments.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Educational Objectives

The objective of the program leading to the Bachelor of Science in Computer Engineering is to prepare a student such that three to five years after graduation, a CpE graduate will:

- Excel in a career utilizing their education in computer engineering
- Continue to enhance their knowledge
- Be effective in multidisciplinary and diverse professional environments
- Provide leadership and demonstrate professional integrity

Mission

- To educate undergraduate majors as well as the broader campus community in the fundamental concepts of the computing discipline
- To create and disseminate computing knowledge and technology
- To use our expertise in computing to help society solve problems.

Admission Requirements

Successful applicants must have earned a 2.5 grade point average, based on the first two attempts, in the eight preprofessional courses and have earned a minimum grade of C in each course of Calculus 1, Calculus 2, Calculus 3, Physics with Calculus 1, Physics with Calculus 2, General Chemistry 1, General Chemistry 2 or 2000 level Biological or Physical Science, and Differential Equations. Only the first two attempts (including withdrawals) in each course will be considered for admission to or retention in the department.

Computer Engineering Requirements

A minimum grade of C is required for each critical-tracking course and the critical-tracking GPA must be a minimum of 2.5.

A minimum grade of C is required in any computer engineering course that is a prerequisite for another computer engineering course. The prerequisite course and its subsequent course cannot be taken the same term, even if the prerequisite course is being repeated.

Minimum grades of C are required in:

Code	Title	Credits
COP 3502	Programming Fundamentals 1	3
COP 3503	Programming Fundamentals 2	3
EEL 3701C	Digital Logic and Computer Systems	4
ENC 3246	Professional Communication for Engineers	3
CpE Design 2; select one:		
CEN 4914	Computer and Information Science and Engineering Design 2	
CIS 4914	Senior Project	

EEL 4913	Integrated Product and Process Design 2
EEL 4924C	Electrical Engineering Design 2

A CpE major grade point average (GPA) is calculated as the average of the grades of all the CISE and ECE courses taken by the student. CpE students must maintain a cumulative, upper-division and CpE major GPA minimum of 2.0.

Students who do not meet these requirements will be placed on academic probation and will be required to prepare a probation contract with a CpE advisor. Students are normally given two terms to remove their deficit points; however, students who do not satisfy the conditions of the first term of probation may be dismissed from the program.

All graduating seniors must complete an exit survey with their advisor before graduating.

Related Computer Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Computer and Information Science and Engineering minor (p. 1276)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=140901&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 8 critical-tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, CHM 2046 or CHM 2096 or a 2000-level or higher advisor-approved science course, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the general education International (GE-N) and Diversity (GE-D) requirements. This is often done concurrently with another general education requirement, typically GE-C, H, or S.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
COP 3502	Programming Fundamentals 1	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Social and Behavioral Sciences (Writing requirement, 6,000 words)		3
	Credits	17
Semester Two		
Select one:		3
CHM 2046	General Chemistry 2 (**Critical Tracking**)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**)	
Gen Ed Biological Sciences (**Critical Tracking**; 2000 level or above)		
COP 3503	Programming Fundamentals 2	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
ENC 1101	Expository and Argumentative Writing (Gen Ed Composition; Writing Requirement: 6,000 words)	3
	Credits	17
Semester Three		
COT 3100	Applications of Discrete Structures	3
EEL 3701C	Digital Logic and Computer Systems	4
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2	1
ENC 3246	Professional Communication for Engineers (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
	Credits	18
Semester Four		
CDA 3101	Introduction to Computer Organization	3
COP 3530	Data Structures and Algorithm	4
EEL 3111C	Circuits 1	4
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
Gen Ed Social and Behavioral Sciences with Diversity or International; Writing Requirement: 6,000 words		3
	Credits	17
Semester Five		
State Core Gen Ed Humanities with Diversity or International (p. 23)		3
EEL 3744C	Microprocessor Applications	4
MAS 3114	Computational Linear Algebra	3
CEN 3031	Introduction to Software Engineering	3
College breadth elective		2-3
	Credits	15-16
Semester Six		
EEL 4712C	Digital Design	4
College breadth elective		3
Engineering ethics course		1-2
Technical electives		6
	Credits	14-15
Semester Seven		
Select one CpE Design 1 course:		3
CEN 3913	Computer and Information Science and Engineering Design 1	
EEL 3923C	Electrical Engineering Design 1	
EEL 4912/CIS 4912C	Integrated Product and Process Design 1	
COP 4600	Operating Systems	3
EEL 3135	Introduction to Signals and Systems	4

STA 3032	Engineering Statistics	3
Technical elective		3
	Credits	16
Semester Eight		
Select one CpE Design 2 course:		3
CEN 4914	Computer and Information Science and Engineering Design 2	
EEL 4924C	Electrical Engineering Design 2	
EEL 4913/CIS 4913C	Integrated Product and Process Design 2	
Technical electives		9
	Credits	12
	Total Credits	126

Technical Electives

18 Credits

- At least 12 credits must be from the CISE and/or ECE department(s). These courses must be 3000-level or higher.
- Courses not permitted as technical electives: EEL 3003, CGS 3063, and CGS 3065
- A CpE student will have credit for two programming courses (Java and C++). One additional programming language course (not Java or C++) can count as a technical elective. COP 3275 and EEL 3834 are acceptable.
- A maximum of 6 credits can come from the following categories:
  - 4000-level courses in the mathematics department
  - 3000-level courses in the physics department
  - 4000-level courses in the statistics courses
  - 3000-level courses in any Herbert Wertheim College of Engineering department
  - Any advisor-approved course

Academic Learning Compact

The Bachelor of Science in Computer Engineering is concerned with the theory, design, development and application of computer systems and information processing techniques. Students will be equally proficient working with computer systems, hardware and software, as with computer theory and applications.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass assessment according to department rubric of student performance on a major design experience.
- Pass assessment in one or more core courses of individual assignments targeted to each SLO.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics and science to computer engineering problems.
2. Design and conduct computer-engineering experiments, analyzing and interpreting the data.

Critical Thinking

3. Design a computer engineering system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints.

Communication

4. Communicate technical data and design information effectively in writing and in speech to other computer scientists and engineers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
CEN 3031				I, A
CEN 4914 or EEL 4924C	A	A	A	A
COP 3504			I	
COT 4501 or EEL 3135	I, A	I, A		

Assessment Types

- Assignments
- Exams
- Reports
- Exit survey

Computer Science | Herbert Wertheim College of Engineering

The computer science program combines a strong engineering-oriented technical basis with a flexible interdisciplinary component and an emphasis on communication skills. This flexibility will be increasingly important in the future as computers become more important tools in an ever-increasing number of disciplines.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Computer Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Computer Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Students in the engineering computer science (EG-CSE) program will satisfy the same requirements for general education and obtain the same engineering preprofessional background in mathematics and science as other engineering students. The program contains a strong technical component comprising a set of required courses covering essential areas in computing and a set of technical electives enabling students to deepen their knowledge in chosen areas of computer science and engineering.

In addition, the program includes a set of interdisciplinary electives in an area of the student's choice from anything the university offers. Students may choose an established minor, a predefined track or if nothing meets their needs, they can work with an advisor to develop their own program. Thus, students will not need to wait for an interdisciplinary program to be established; they can create their own.

To answer the demands of industry for employees with both technical competence and the ability to communicate effectively, the program requires communication courses beyond the usual general education requirements for engineering.

Department Requirements

Students must complete all critical-tracking courses with minimum grades of C in each course and the critical-tracking GPA must be 2.5 minimum. A minimum grade of C is required in all other courses that are prerequisites to a required course: CDA 3101, COP 3503, COP 3530, COP 4600, COT 3100 and MAS 3114. In addition, CISE requires all computer science students to maintain a cumulative, upper-division and department grade point average minimum of 2.0.

Students who do not meet these requirements will be placed on academic probation and will be required to prepare a probation contract with a CISE advisor. Students are normally given two terms to remove their deficit points; however, students who do not satisfy the conditions of the first term of probation may be dismissed from the department.

Placement

Students who have scored at least a 4 or 5 on the AP Computer Science exam are eligible to start the programming fundamentals sequence with COP 3503. Students will need to see an advisor in the major to adjust their degree audit.

Related Computer Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Computer Science, CLAS (p. 662)

- Bachelor of Science in Computer Science, UF Online (p. 658)
- Computer and Information Science and Engineering minor (p. 1276)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=140901&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 7 critical-tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, MAC 2311, MAC 2312, MAC 2313, COP 3502, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 7 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the general education international (GE-N) and diversity (GE-D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
COP 3502	Programming Fundamentals 1 (**Critical Tracking**)	3
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
	Credits	17

Semester Two		
COP 3503	Programming Fundamentals 2	3
COT 3100	Applications of Discrete Structures	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
	Credits	14
Semester Three		
COP 3530	Data Structures and Algorithm	4
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Physical Sciences)	1
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15
Semester Four		
CEN 3031	Introduction to Software Engineering	3
ENC 3246	Professional Communication for Engineers (Gen Ed Composition; Writing Requirement: 6,000 words)	3
MAS 3114 or MAS 4105	Computational Linear Algebra or Linear Algebra 1	3-4
Gen Ed Social and Behavioral Sciences with Diversity or International		3
	Credits	12-13
Semester Five		
CDA 3101	Introduction to Computer Organization	3
CIS 4301	Information and Database Systems 1	3
COT 4501	Numerical Analysis: a Computational Approach	3
State Core Gen Ed Humanities with Diversity or International (p. 23)		3
Interdisciplinary elective		3
	Credits	15
Semester Six		
COP 4600	Operating Systems	3
EEL 3701C	Digital Logic and Computer Systems	4
ENC 1102	Argument and Persuasion (Gen Ed Composition; Writing Requirement: 6,000 words)	3
EGN 4034		1
Technical electives		6
	Credits	17
Summer After Semester Six		
Internship / Co-op (if desired)		
	Credits	0
Semester Seven		
CNT 4007C	Computer Network Fundamentals	4
Technical electives		6
Interdisciplinary electives		5
	Credits	15
Semester Eight		
CIS 4913C or CIS 4914	Integrated Product and Process Design 2 (4EG) or Senior Project	3
STA 3032	Engineering Statistics	3
Technical elective		3
Interdisciplinary electives		6
	Credits	15
	Total Credits	120

Academic Learning Compact

The Herbert Wertheim College of Engineering's computer science program combines a strong engineering technical basis with a flexible interdisciplinary component and strong communication skills. This program emphasizes the technical aspects of computer science and is less flexible than the computer science program in the College of Liberal Arts and Sciences.

Before Graduating Students Must

- Pass assessment according to department rubric of student performance on a major design experience.
- Pass assessment in one or more core courses of individual assignments targeted to each SLO.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics and science to computer science problems.
2. Design and conduct computer-science experiments, analyzing and interpreting the data.

Critical Thinking

3. Design a computer science system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints.

Communication

4. Communicate technical data and design information effectively in writing and in speech to other computer scientists and engineers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
CDA 3101			I	
CEN 3031				I, A
CIS 4914 or EEL 4924C	A	A	A	A
COT 4501	I, A	I, A		

Assessment Types

- Assignments
- Exams
- Reports
- Exit survey

Digital Arts and Sciences | Bachelor of Science

The digital arts and sciences (DAS) program crosses college boundaries between engineering and the arts. This degree is an interdisciplinary engineering program.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Digital Arts and Sciences
- **Credits for Degree:** 120
- **Additional Information**
- **Related Digital Arts and Sciences Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The Digital Arts and Sciences (DAS) degree is a core computer science degree with special emphasis on human-centered computing, which includes art, design and computing courses that are related to digital media, interaction and communication.

Graduates will be well versed in issues and solutions for basic art techniques and graphic art design as well as modeling 3D virtual worlds. The DAS graduate also will be well versed in collaborative multidisciplinary team models. Intermediate and final class projects are centered around a balanced-team composition focusing on multimedia productions.

Department Requirements

Students must complete all critical-tracking courses with minimum grades of C in each course and the critical-tracking GPA must be 2.5 or higher. A minimum grade of C is required in all other courses that are prerequisites to a required course:

Code	Title	Credits
CAP 3027	Introduction to Digital Arts and Sciences	3
CDA 3101	Introduction to Computer Organization	3
COP 3502	Programming Fundamentals 1	3
COP 3530	Data Structures and Algorithm	4
COP 4600	Operating Systems	3
COT 3100	Applications of Discrete Structures	3
MAS 3114	Computational Linear Algebra	3

In addition, CISE requires all DAS students to maintain a cumulative, upper-division and department GPA minimum of 2.0.

Students who do not meet these requirements will be placed on academic probation and will be required to prepare a probation contract with a CISE advisor. Students normally are given two terms in which to remove their deficit points or to remedy their probation status; however, students who do not satisfy the conditions of the first term of probation may be dismissed from the department.

Related Digital Arts and Sciences Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Arts in Digital Arts and Sciences (p. 1083)
- Bachelor of Arts in Digital Arts and Sciences | UF Online (p. 1087)
- Digital Arts and Sciences minor (p. 1082)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=500102&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 8 critical-tracking courses with a minimum grade of C within two attempts: ARH 2051, CHM 2045 or CHM 2095, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the general education international (GE-N) and diversity (GE-D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**)	
COP 3502	Programming Fundamentals 1	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
	Credits	13
Semester Two		
CAP 3032	Interactive Modeling and Animation 1	3
COP 3503	Programming Fundamentals 2	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	17
Semester Three		
CAP 3220	Introduction to Computer-Aided Modeling	3
COT 3100	Applications of Discrete Structures	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2	1
	Credits	14
Semester Four		
ARH 2051	Introduction to the Principles and History of Art 2 (**Critical Tracking**; Gen Ed Humanities and International)	3
CAP 3034	Introduction to Computer-Aided Animation	3
COP 3530	Data Structures and Algorithm	4
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
Gen Ed Social and Behavioral Sciences		3
	Credits	16
Semester Five		
CAP 3027	Introduction to Digital Arts and Sciences	3
CEN 3031	Introduction to Software Engineering	3
MAS 3114 or MAS 4105	Computational Linear Algebra or Linear Algebra 1	3
PHI 2010	Introduction to Philosophy (State Core Gen Ed Humanities (p. 23); Writing Requirement: 6,000 words)	3
Interdisciplinary elective (Gen Ed Composition; Writing Requirement: 6,000 words)		3
	Credits	15
Semester Six		
ART 2305C	Perceptual Drawing	3
CAP 3020	Theory and Practice of Multimedia Production	3
COT 4501	Numerical Analysis: a Computational Approach	3
CISE elective		3

Interdisciplinary elective		3
	Credits	15
Semester Seven		
ART 2701C	Sculpture: Shaping Form and Space	3
CIS 4930	Special Topics in CISE	3
ENC 3246	Professional Communication for Engineers (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
CISE elective		3
Interdisciplinary elective		3
	Credits	15
Semester Eight		
CAP 4730	Computational Structures in Computer Graphics	3
CIS 4914	Senior Project	3
COP 4020 or COP 4600	Programming Language Concepts or Operating Systems	3
Interdisciplinary electives		6
	Credits	15
	Total Credits	120

Academic Learning Compact

The major crosses college boundaries between engineering and the arts. This degree is an interdisciplinary engineering program combining developing skills in art and computers. Students will be well-versed in issues and solutions for basic art technique and graphic art design, as well as modeling 3D virtual worlds. Students will be experienced in collaborative multidisciplinary teams, compositions and projects focusing on multimedia productions.

Before Graduating Students Must

- Pass assessment of performance on a major design experience, according to department grading rubric.
- Pass assessment in one or more core courses of individual assignments targeted to each SLO.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics and science to computer science problems.
2. Apply knowledge of multimedia, human-computer interaction, computer graphics and simulation to application domains.

Critical Thinking

3. Design a human-computer interface involving animation, sound and immersive virtual environments.

Communication

4. Communicate technical information in a collaborative team environment.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
CAP 4730	I, A	I, A		
CEN 3031				I, A
CIS 4914	A	A	A	A

Assessment Types

- Assignments
- Exams
- Reports
- Exit survey

Electrical Engineering

Electrical engineering is concerned with all phases and development of the transmission and utilization of electric energy and intelligence. From communication systems to electronic components that run computers and motor vehicles, electrical engineers design products and systems that meet the needs of today and tomorrow's electrical and electronic systems.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Electrical Engineering
- **Credits for Degree:** 128
- **Additional Information**
- **Related Electrical Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

While it is essential that electrical engineers understand the fundamentals of their chosen fields, they must also understand the role that other branches of engineering play in completed work. The curriculum provides a foundation in basic engineering as well as depth and breadth in electrical engineering and sufficient electives to allow specialization in academic areas including:

- Electronic Devices and Circuits
- Electromagnetics, Power and Photonics
- Computers, Communications and Systems and Controls

The curriculum also prepares an engineer for professional licensure.

The department's extensive laboratory facilities and varied research programs assist in both experimental and theoretical approaches to electrical and computer engineering.

Admission Requirements

It is the department's policy to admit the best-qualified students as demonstrated by academic achievement.

To be admitted, a student must have an overall 2.5 grade point average in critical-tracking courses, based on the first two attempts in eight professional courses and have earned a minimum grade of C in each course of Calculus 1, Calculus 2, Calculus 3, Physics with Calculus 1, Physics with Calculus 2, Differential Equations and General Chemistry. Only the first two attempts (including withdrawals and drops) in each course will be considered for admission to or retention in the department.

Department Requirements

A minimum grade of C is required in any course transferred into the junior-senior years from another institution.

Courses marked below with a footnote[1] must be completed with minimum grade of C. For a course to be used as a prerequisite for an EEE/EEL-prefixed course, a minimum grade of C is required in the prerequisite course. Any 3000/4000 level EEL/EEE-prefixed course not taken to satisfy the breadth or depth requirement can be applied as EE technical elective, excluding EEL 3834 only counts for computer programming requirement and EEL 3003, which does not apply toward degree requirements.

ECE majors must have an overall 2.0 GPA in all ECE courses to meet degree requirements.

A student must complete both EEL 3111C **and** EEL 3701C **before taking any 4000-level EEE or EEL course. Electrical Engineering majors must have** EEL 3923C **completed or in progress to apply for the IPPD program.**
More Info (http://www.ippd.ufl.edu)

Any course taken to satisfy a degree requirement (general education, required course or technical elective), with the exception of EGN 4912, EEL 4948, and EEL 4949, cannot be taken S-U.

An electrical engineering student whose cumulative, upper-division or department grade point average falls below 2.0 or whose pre-professional grades do not meet department admission requirements will be placed on academic probation and be required to prepare a probation contract with an ECE academic advisor. If a student is not making normal academic progress, they will be placed on academic probation.

Students normally are given two terms in which to remove their deficit points. Students who do not satisfy the conditions of the first term of probation may be dismissed from the department.

All graduating seniors must complete an exit interview with their advisor before graduating.

Educational Objectives

The objectives of the Electrical Engineering program at the University of Florida are to prepare students to be good citizens engaged in ethical engineering for the betterment of society and enabling them, so that within a few years of graduation, they:

1. Have successful careers providing leadership in a dynamic industry that is global, multi-disciplinary, and evolving;
2. Are excelling in the top advanced studies programs in the world.

Goals

The baccalaureate program prepares students to embark upon professional careers in electrical and computer engineering or to begin graduate study. The department's educational objectives are consistent with the ABET general criteria for accrediting programs in engineering in the United States.

Mission

The department offers undergraduate and graduate programs in electrical and computer engineering and conducts research to serve the needs of Florida and the nation.

Related Electrical Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Electrical Engineering minor (p. 1292)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=141001&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 7 tracking courses. MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049, and CHM 2045 or CHM 2095 must be completed with minimum grade of C in each course within two attempts (including withdrawals).
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with the appropriate minimum grade within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with the appropriate minimum grades within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with the appropriate minimum grades within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete remaining 7 critical-tracking courses with the appropriate minimum grades within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Composition (Writing Requirement)		3
	Credits	14
Semester Two		
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
Computer Programming elective (**Critical Tracking**)		3
Gen Ed Social and Behavioral Sciences (Writing Requirement)		3
	Credits	14
Semester Three		
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2	1
EEL 3000	Introduction to Electrical and Computer Engineering [1]	2
EEL 3701C	Digital Logic and Computer Systems [1]	4
	Credits	14
Semester Four		
EEL 3111C	Circuits 1 [1]	4
EEL 3135	Introduction to Signals and Systems [1]	4
MAS 3114	Computational Linear Algebra	3
MAP 2302	Elementary Differential Equations ((**Critical Tracking**))	3
	Credits	14
Summer After Semester Four		
EEL 3008	Physics of Electrical Engineering [1]	3
ENC 3246	Professional Communication for Engineers (State Core Composition; Writing Requirement)	3
STA 3032	Engineering Statistics	3
	Credits	9
Semester Five		
EEL 3112	Circuits 2 [1]	3
EEL 3744C	Microprocessor Applications [1]	4
State Core Social and Behavioral Sciences with Diversity		3
Electrical Engineering Breadth 1 [1]		4
	Credits	14
Semester Six		
Electrical Engineering Breadth electives #2 and #3 [1]		8
Interdisciplinary elective #1		3
Electrical Engineering Technical course		3
State Core Humanities with International		3
	Credits	17
Semester Seven		
EEL 3923C	Electrical Engineering Design 1 [1]	3
Electrical Engineering Depth elective #1 [1]		3
Electrical Engineering Technical electives		7
Interdisciplinary elective #2		3
	Credits	16

Semester Eight		
EEL 4924C	Electrical Engineering Design 2 [1]	3
Electrical Engineering Depth elective #2 [1]		3
Electrical Engineering Technical electives		7
Interdisciplinary elective #3		3
	Credits	16
	Total Credits	128

[1] Completed with a minimum grade of C. In order to use a course as a prerequisite course for course used as a prerequisite for an EEE/EEL-prefixed course, a minimum grade of C is required in the prerequisite course. Any 3000/4000-level EEL/EEE-prefixed course not taken to satisfy the breadth or depth requirement can be applied as an EE technical elective, excluding EEL 3834 only counts for computer programming requirement and EEL 3003, which does not apply toward degree requirements.

Approved Electives

Computer Programming | Select One

Code	Title	Credits
COP 2271	Computer Programming for Engineers	3
& 2271L	and Computer Programming for Engineers Laboratory (C++ section)	
COP 3275	Computer Programming Using C	3
EEL 3834	Programming for Electrical and Computer Engineers	3

Electrical Engineering Breadth | Select Three

Code	Title	Credits
EEL 3211C	Basic Electric Energy Engineering	4
EEE 3308C	Electronic Circuits 1	4
EEE 3396C	Solid-State Electronic Devices	4
EEL 3472C	Fundamentals of Electromagnetic Fields	4
EEE 4260C	Bioelectrical Systems	4
EEL 4514C	Communication Systems and Components	4
EEL 4657C	Linear Control Systems	4
EEL 4712C	Digital Design	4

Electrical Engineering Depth | 6 Credits

Select one EE Depth course from 2 different EE Breadth areas.
More Info (https://www.ece.ufl.edu/sites/default/files/pictures/EE%20Curriculum%20breadth-depth%20chart.pdf)

Interdisciplinary Technical Electives | Select 3 Courses

Students are able to select courses that are 3000-4000 level from the Biology/Biochemistry courses (prefixes of BSC, BCH, CHM, PCB, and ZOO); Mathematics courses (prefixes of MAA, MAD, MAP, and MAS); Physics courses (prefixes of PHY and PHZ). Students are able to count CHM 2046, CHM 2210, and CHM 2211. Students are able to select courses that are 3000-4000 level from HWCOE (non-ECE) courses.

Electrical Engineering Technical Electives | 17 Credits

Any 3000 level or above course in ECE, with the exception of EEL 3003 and EEL 3008.

Academic Learning Compact

Electrical engineering emphasizes development of the transmission and utilization of electric energy and intelligence. Electrical engineers design products and systems that meet the needs of today and tomorrow's electrical and electronic systems. Students will be able to design communication systems; design the electronic components that run computers, motor vehicles, TVs, stereo systems and robots for automated factories; design aircraft and spacecraft control systems; design utility and industrial power systems; and design biological and biomedical systems.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass an assessment of performance on a major design experience. Assessment will be provided by two or more faculty and/or industry practitioners.

- Pass assessment in two courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify, describe, and interpret mathematics, science and engineering principles to electrical engineering problems.

Critical Thinking

2. Design and conduct electrical engineering experiments as well as analyze and interpret data.
3. Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

Communication

4. Convey technical data and design information effectively for a range of audiences using a variety of methods and media.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EEL 3000				I, A
EEL 3008	A			
EEL 3135	A			
EEL 3701C		A	I	R
EEL 3923C			A	R
EEL 4924C		A	A	A

Assessment Types

- Homework assignments
- Exam questions
- Design projects and reports
- Presentations

Electrical Engineering Minor

This minor, administered by the Department of Electrical and Computer Engineering, provides additional knowledge in electrical engineering.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Electrical Engineering Programs**

Students pursuing the BSEE or BSCEN degree are not eligible for this minor.

To be admitted to the minor, students are expected to meet the admission requirements of the Department of Electrical and Computer Engineering.

All courses for the minor must be completed at UF. EEL 3003 and EEL 3111C do not both count toward the minor.

Required Courses

Code	Title	Credits
EEE or EEL-prefixed courses [1]		12
EEE or EEL-prefixed course (4000 level)		3
Total Credits		15

[1] Must include EEL 3003 or EEL 3111C.

Related Electrical Engineering Programs

- Bachelor of Science in Electrical Engineering (p. 1288)

Engineering Innovation Certificate

With core themes involving the study of innovation, entrepreneurship, leadership, and ethics, this certificate develops a comprehensive skill set that is applied in innovation-driven enterprises and within larger organizations.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 9 | Completed with minimum grades of B
- **Related Engineering Innovation Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

This certificate is open to undergraduate students in any engineering discipline. Students cannot earn both the Engineering Innovation certificate and minor.

Required Courses

Code	Title	Credits
EGN 4641	Engineering Entrepreneurship	3
EGN 4643	Engineering Innovation	3
EGS 4038	Engineering Leadership	3
Total Credits		9

Related Engineering Innovation Programs

- Engineering Innovation minor (p. 1293)

Engineering Innovation Minor

Graduates with this minor across all engineering disciplines are better prepared to enter the market place as innovators and leaders in myriad technology-centric industries. The minor provides the academic background for graduates to think more creatively, innovatively, and entrepreneurially. Graduates are more rounded with innovation skill sets that enhance career advancement opportunities, either for employers or in their own entrepreneurial pursuits.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 15 | Completed with a minimum 2.8 combined GPA
- **Related Engineering Innovation Programs**

Open to all Herbert Wertheim College of Engineering majors. Students can only complete one UF Innovation minor. Students cannot earn both the Engineering Innovation minor and certificate.

The curriculum enhances the engineering discipline with courses in engineering attributes, communications, innovation, entrepreneurship, creativity, leadership, and project management, completed with an internship/co-op experience. The UF Engineering Innovation Institute oversees this minor.

This minor develops a deep and comprehensive skill set in undergraduate engineering students that can be applied innovation-driven enterprises as well as in “intrapreneurial” initiatives within larger organizations. The core themes involve creativity, the study of engineering-focused innovations, technological entrepreneurship, leadership of teams focused on technology and engineering, engineering project management, and professional development for engineers via an engineering innovation-related internship.

This minor complements the technical training in the student’s major discipline by providing the tools and knowledge required for engineering innovators.

Required Courses

Code	Title	Credits
ENC 3246	Professional Communication for Engineers	3
EGN 4643	Engineering Innovation	3
Select 6 credits:		6
EGS 2036	Fundamentals of the New Engineer	
EGN 2020C	Engineering Design & Society	
EGN 4641	Engineering Entrepreneurship	
EGS 4038	Engineering Leadership	
EGS 4625	Fundamentals of Engineering Project Management	
EIN 4905	Special Problems in Industrial and Systems Engineering (Divergent Thinking)	
Select one:		3
EGN 4940	NSF Fellowship Preparation	
Or one internship/co-op offering specific to departments:		
CGN 4949	Co-op Work Experience	
CIS 4940	Practical Work	
CIS 4949	Co-Op Work in CISE	
EAS 4949	Co-op Work Experience	
ECH 4948	Internship Work Experience	
ECH 4949	Co-op Work Experience	
EEL 4948	Practical Work in Electrical and Computer Engineering	
EEL 4949	Co-op Work Experience	
EGN 4949	Engineering Internship/Co-op	
EGN 5949	Prac/Intern/Coop Work	
EMA 4949	Co-Op Work Experience	
EML 4945	Practical Work in Mechanical Engineering	
EML 4949	Co-op Work Experience	
ENU 4949	Co-op Work Experience	
ENV 4949	Environmental Engineering Internship/Co-op	
ESI 4949	Co-Op Work Experience	
Total Credits		15

Related Engineering Innovation Programs

- Engineering Innovation certificate (p. 1293)

Engineering Leadership Certificate

Engineering undergraduate students completing this certificate will reflect a comprehensive set of industry-preferred competencies that prepares them for leadership roles in their engineering careers.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 9 | Completed with minimum grades of B

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

This certificate is open to undergraduate students in any engineering discipline.

The certificate's core studies include engineering leadership, advanced engineering leadership development, and one of the courses engineering project management, engineering entrepreneurship, or engineering innovation.

Required Courses

Code	Title	Credits
EIN 4905	Special Problems in Industrial and Systems Engineering (Advanced Engineering Leadership Development)	3
Select one:		3
EIN 4905	Special Problems in Industrial and Systems Engineering (Fundamentals of Engineering Project Management)	
EGN 4641	Engineering Entrepreneurship	

EGN 4643	Engineering Innovation	
EGS 4038	Engineering Leadership	3
Total Credits		9

Engineering | Exploring Engineering Studies

This plan is intended for students who want to major in engineering but have not yet chosen a specific discipline or for students who need to take both pre-tracking chemistry and mathematics courses in their first semester.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** None
- **Credits for Degree:** N/A

This is *not* a degree-granting major. Students should work with their academic advisors to choose a degree-granting engineering major by semester three.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Semester 1

- Complete CHM 1025 and MAC 1147 with minimum grades of C within 2 attempts, including withdrawals. At least one course must be passed in semester 1
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 of the 8 critical-tracking courses with minimum grades of C within two attempts, including withdrawals: CHM 2045 or CHM 2095, CHM 2046 or CHM 2096, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts, including withdrawals
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional courses with minimum grades of C within two attempts, including withdrawals
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course, within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Undecided engineering students who are ready to begin one or both critical-tracking courses in semester 1 should meet with their academic advisor to adjust the recommended plan of study.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ENC 1101	Expository and Argumentative Writing ((If you do not place out of this course, take it in the fall))	0-3
CHM 1025	Introduction to Chemistry (Gen Ed Physical Sciences)	2
EGS 1006	Introduction to Engineering (recommended)	1
MAC 1147	Precalculus Algebra and Trigonometry (Gen Ed Mathematics)	4
Gen Ed Humanities		3
Gen Ed Social and Behavioral Sciences		3
	Credits	13-16
Semester Two		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Gen Ed Social and Behavioral Sciences		3
	Credits	14
Semester Three		
Select one:		3
CHM 2046	General Chemistry 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**; or approved substitute)	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Physical Sciences)	1
ENC 3246	Professional Communication for Engineers (Gen Ed Composition)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
Select one:		3
Gen Ed Humanities		
Gen Ed Social and Behavioral Sciences		
	Credits	14
Semester Four		
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
Major-specific courses		6
	Credits	14
Semester Five		
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Physical Sciences)	1
Major-specific courses		6
	Credits	13
	Total Credits	68-71

Environmental Engineering

Environmental engineering applies engineering and scientific principles to protect and preserve human health and the environment. It embraces broad environmental concerns, including air and water quality, solid and hazardous wastes, groundwater protection and remediation, water resources management, environmental policy, radiological health, environmental biology and chemistry, systems ecology, water and wastewater treatment and wetlands ecology.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Environmental Engineering
- **Credits for Degree:** 128

- **Additional Information**
- **Related Environmental Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Department Recommendations

All students are strongly encouraged to take the Fundamentals of Engineering Exam which is the first exam leading to licensure as a professional engineer. Application should be made in the semester before graduation.

Qualified students are encouraged to pursue master's and doctoral studies to increase their knowledge and broaden their employment opportunities.

Educational Objectives

Environmental engineering graduates will continue to develop and apply their knowledge and skills to identify, prevent, and solve environmental problems. Evidence of achievement of this objective includes one or more of the following:

- Passing the Fundamentals of Engineering Examination
- Obtaining and maintaining a Professional Engineering License
- Admission to graduate school, including medical, law or other professional schools
- Completing educational and professional short courses

Program graduates can aspire to careers that benefit society as a result of their educational experiences in science, analysis and design, as well as in their social and cultural activities. Evidence of achievement of this objective includes the following:

- Employment as an engineer or in a related technical capacity
- Participating in professional organizations
- Providing community service

Program graduates will be able to communicate and work effectively in all work settings including those that are multidisciplinary. Evidence of achievement of this objective includes one or more of the following:

- Publication in scientific and engineering journals
- Presenting at scientific and engineering conferences
- Teaching
- Contributing to scientific and engineering studies
- Service as a task or team leader

Mission

The mission of the Department of Environmental Engineering Sciences (EES) is to provide quality undergraduate and graduate educational programs in environmental engineering sciences, to conduct an internationally recognized environmental research program that benefits humanity, and to provide authoritative guidance to individuals and organizations charged with preventing and solving local, state, national and global environmental problems. EES serves as a leader in interdisciplinary programs aimed at solving environmental problems and as a major on campus crucible for identification, conceptualization and resolution of environmental issues.

Related Environmental Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=141401&track=01) may be used for transfer students.

Semester 1

- Complete 1 critical-tracking course (CHM 2045 or CHM 2095, CHM 2046 or CHM 2096, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048 and PHY 2049) with a minimum grade of C within two attempts, including withdrawals.
- 2.5 GPA on the best of a maximum of two attempts at each critical-tracking course
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts, including withdrawals
- 2.5 GPA on the best of a maximum of two attempts at each critical-tracking course
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts, including withdrawals
- 2.5 GPA on the best of a maximum of two attempts at each critical-tracking course
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts, including withdrawals
- 2.5 GPA on the best of a maximum of two attempts at each critical-tracking course
- 2.0 UF GPA required

Semester 5

- Complete the remaining critical-tracking courses with minimum grades of C in each course within two attempts, including withdrawals
- 2.5 GPA on the best of a maximum of two attempts at each critical-tracking course
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the general education International (GE-N) and Diversity (GE-D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H, or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
Select one:		3
CHM 2046	General Chemistry 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Physical Sciences)	1
Select one:		3
ENC 1101	Expository and Argumentative Writing (Gen Ed Composition)	
ENC 1102	Argument and Persuasion (Gen Ed Composition)	
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
State Core Gen Ed Humanities (p. 23)		3
	Credits	14
Semester Three		
ENC 3246	Professional Communication for Engineers (State Core Gen Ed Composition; minimum grade of C required)	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1

Gen Ed Social and Behavioral Sciences		3
	Credits	14
Semester Four		
EES 4203	Phase Partitioning in the Environment	4
EGM 2511	Engineering Mechanics: Statics	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**)	3
PHY 2049L	Laboratory for Physics with Calculus 2	1
	Credits	14
Summer After Semester Four		
CGN 3501C or EMA 3010	Civil Engineering Materials or Materials	3-4
STA 3032	Engineering Statistics	3
Technical elective [1]		3
	Credits	9-10
Semester Six		
EES 4201	Water Chemistry	3
EGM 3400	Elements of Dynamics	2
ENV 3040C	Computational Methods in Environmental Engineering	3
ENV 4041C	Environmental Analysis	3
Approved Engineering graphics or geographic information systems elective		3
	Credits	14
Semester Seven		
CWR 3201	Hydrodynamics	4
EES 4102	Wastewater Microbiology	2
ENV 4101	Elements of Atmospheric Pollution	3
ENV 4514C	Water and Wastewater Treatment	3
	Credits	12
Semester Eight		
ENV 4121	Air Pollution Control Design	3
ENV 4351	Solid and Hazardous Waste Management	4
ENV 4501	Environmental Hydrology 1	3
ENV 4561	Hydraulic Systems Design	3
	Credits	13
Semester Nine		
ENV 3930	Environmental Engineering Ethics Seminar	1
ENV 4506	Environmental Hydrology 2	3
ENV 4601	Environmental Resources Management	2
Approved Sustainability elective		3
Technical elective [1]		3
	Credits	12
Semester Ten		
EES 4005C	Ecological Engineering	3
Approved Capstone design elective		3
Technical electives [1]		6
	Credits	12
	Total Credits	128

[1] Technical elective: Any EES/ENV course not specified above, except EES 3000L.

Approved Electives

Sustainability Elective

Code	Title	Credits
CGN 4905	Special Problems in Civil Engineering (Sustainable Engineering)	3
EES 3008	Energy and Environment	3
EES 4050	Environmental Planning and Design	3
ENV 4932	Special Problems in Environmental Engineering Sciences (The Science, Policy and Economics of Recycling)	3
ENV 4932	Special Problems in Environmental Engineering Sciences (Sustainable Nanotechnology 2)	3

Engineering Graphics or Geographic Information Systems Elective

Code	Title	Credits
CGN 2328	Technical Drawing and Visualization	3
EML 2023	Computer Aided Graphics and Design	3
GIS 3043	Foundations of Geographic Information Systems	4
GIS 3072C	Geographic Information Systems	3
URP 4273	Survey of Planning Information Systems	3

Capstone Design Elective

Code	Title	Credits
ENV 4300	Solid Waste Containment Design	3
ENV 4122	Design of Air Pollution Control System	3
ENV 4353	Solid Waste Systems Design	3
ENV 4432	Potable Water System Design	3
ENV 4532	Wastewater System Design	3
ENV 4913	Integrated Product and Process Design 2: Environmental Engineering Sciences [1]	3

[1] By application only. The ENV 4912/ENV 4913 sequence counts as a technical elective and the capstone design elective. Both courses must be completed to receive credit.

Academic Learning Compact

Environmental engineering applies engineering and scientific principles to protect and preserve human health and the environment. It embraces broad environmental concerns, including air and water quality, solid and hazardous wastes, groundwater protection and remediation, water resources and management, environmental policy, radiological health, environmental biology and chemistry, systems ecology, water and wastewater treatment and wetlands ecology.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass assessment by two or more faculty and/or industrial practitioners of student performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each particular learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to environmental engineering problems.
2. Design and conduct environmental engineering experiments and analyze and interpret the data collected.

Critical Thinking

3. Design an environmental engineering system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints.

Communication

4. Communicate technical data and design information effectively in writing and in speech to project stakeholders.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
CHM 2046	I			
CHM 2046L		I		
EES 4102L		A		R

EES 4103		R		
EES 4201	A	R		
EES 4203	R	R		
EMV 3040C	A			
EMV 4121			R	
EMV 4514C			I	A
ENC 3254				I
ENV 4041C		A		R
ENV 4514C			I	A
Capstone Design Elective ENV 4122 or ENV 4353 or ENV 4432 or ENV 4532 or ENV 4913			A	A
FE Exam	A		A	
Exit Interview	A	A	A	A

Assessment Types

- Assignments
- Reports
- The Fundamentals of Engineering (FE) exam
- Exit survey

Industrial and Systems Engineering

Industrial and systems engineering deals with the optimization of complex processes or systems. It typically focuses on the development, improvement, implementation and evaluation of integrated systems of people, money, knowledge, information, equipment, energy, materials, etc. Industrial and systems engineering often relies on, among others, the analysis and synthesis of mathematical, physical, social sciences, and the principles and methods of engineering design to specify, predict and evaluate results from such systems or processes.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Industrial and Systems Engineering
- **Credits for Degree:** 125
- **Additional Information**
- **Related Industrial and Systems Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Industrial and systems engineering prepares students for industrial practice in product design, process design, plant operation, production control, quality control, facilities planning, work system analysis and evaluation, and economic analysis of operational systems.

Students are prepared to use engineering principles to solve problems that require a quantitative basis for decision making and the application of economics, operations research, statistics, mathematics and engineering analysis, with dependence on the computer. The curriculum also provides the preparation necessary for graduate study.

Admission Requirements

The minimum requirements for admission to the undergraduate program are an overall 2.5 grade point average and a 2.5 grade point average in the designated pre-engineering technical courses. Students who have not met these requirements at 60 credits may be admitted on probation with successful petition.

Department Requirements

Students must complete successfully every required course with minimum grades of C in at most three attempts. Grades of H, I, N, U, and W are considered attempts. Registration canceled for non-payment is also considered an attempt.

Educational Objectives

The objective of the industrial and systems engineering program is to produce graduates who:

- will be successful professionals in industrial and systems engineering or other disciplines
- can acquire advanced knowledge through continuing education or advanced degree programs
- can become active leaders in their profession and/or community

Mission

The mission of the undergraduate program is to provide a top quality, state-of-the-art education in industrial and systems engineering and to foster leading-edge instruction. The program seeks national recognition by peer institutions and key employers of industrial and systems engineering graduates.

Related Industrial and Systems Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=142701&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 8 critical-tracking courses with a minimum grade of C within two attempts: COP 2271 (VB.NET), ESI 3327C, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking course with a minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (Gen Ed Physical Sciences) [1]	
CHM 2095	Chemistry for Engineers 1 [1]	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences) [1]	1
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words) [1]	3
IDS 1161	What is the Good Life (Gen Ed Humanities; must be completed in semester one or two)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Humanitieswith Diversity or International (p. 23), Writing Requirement: 6,000 words [1,2]		3
	Credits	17
Semester Two		
ECO 2013	Principles of Macroeconomics (State Core Gen Ed Social and Behavioral Sciences (p. 23)) [1,2]	4
EGS 4034	Engineering Ethics and Professionalism [1]	1
Select one:		3
Gen Ed Humanities with Diversity or International, Writing Requirement: 6,000 words [1]		
Gen Ed Social and Behavioral Sciences with Diversity or International; Writing Requirement: 6,000 words [1,2]		
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; Gen Ed Physical Sciences) [3]	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences) [1,3]	1
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
	Credits	16
Semester Three		
ECO 2023	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences) [1,2]	4
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**)	3
PHY 2049L	Laboratory for Physics with Calculus 2 [1]	1
	Credits	15
Semester Four		
COP 2271	Computer Programming for Engineers (**Critical Tracking**; VB.NET)	2
COP 2271L	Computer Programming for Engineers Laboratory (VB.NET) [1]	1
EGM 2511	Engineering Mechanics: Statics [1]	3
EMA 3010	Materials [1]	3
ENC 3246	Professional Communication for Engineers (Gen Ed Composition; Writing Requirement: 6,000 words) [1]	3
ESI 3327C	Matrix and Numerical Methods in Systems Engineering	4
	Credits	16
Semester Five		
Select one:		3
EML 2023	Computer Aided Graphics and Design [1]	
CGN 2328	Technical Drawing and Visualization [1]	
EIN 3354	Engineering Economy [1]	3
ESI 3312	Operations Research 1 [1]	4
STA 4321	Introduction to Probability [1]	3
Technical elective [4]		3
	Credits	16
Semester Six		
EIN 4360C	Facility Planning and Work Design [1]	4
ESI 4313	Operations Research 2 [1]	4
ESI 4356	Decision Support Systems for Industrial and Systems Engineers [1]	4
STA 4322	Introduction to Statistics Theory [1]	3
	Credits	15
Semester Seven		
EIN 4343	Inventory and Supply Chain Systems [1]	3
EML 3100	Thermodynamics [1]	3
ESI 4221C	Industrial Quality Control [1]	3
ESI 4523	Industrial Systems Simulation [1]	3
Financial accounting course [1]		3
	Credits	15

Semester Eight		
EEL 3003	Elements of Electrical Engineering [1]	3
EIN 4335	Senior Design Project [1,5]	3
EIN 4451	Lean Production Systems [1]	3
ESI 4357	Web-Based Decision Support Systems for Industrial and Systems Engineers [1]	4
Technical elective [4]		2
	Credits	15
	Total Credits	125

1. Minimum grade of C required. A C- will not satisfy this requirement.
2. The curriculum requires the completion of both the Diversity (D) component and the International (N) component.
3. Students with deficient backgrounds in physics should first take a lower-level course such as PHY 2020. After successful remediation, they can begin the physics sequence: PHY 2048/PHY 2048L and PHY 2049/PHY 2049L.
4. The curriculum requires five technical elective credits. Students should choose technical electives that are related to one another and provide expertise in an ISE concentration area. Several minors provide such concentrations; information is available in 368 Weil.
5. As an alternative, students can participate in the Integrated Product and Process Design (IPPD) program. Multidisciplinary teams of engineering students in this program work closely with a liaison engineer to design a new product or process for an industry sponsor. The program requires students to take, typically in their senior year, a sequence of two 3-credit courses, EIN 4912 in fall and EIN 4913 in spring. The former is a course approved for a technical elective and the latter can replace EIN 4335.

Fundamentals of Engineering Exam Preparation

Approximately 10 percent of the members of the Institute of Industrial Engineers pursue a professional engineer (PE) license. A PE license is especially desirable for engineers who want to start their own businesses. The industrial and systems engineering curriculum does not require certain courses that are necessary for the Fundamentals of Engineering (FE) exam (also known as the Engineer Intern exam). The latter is also a prerequisite for pursuing professional engineer license.

Students preparing for the FE exam should choose a set of technical electives that properly prepare them for this exam, such as EGM 3520 and EGM 3400 / EGM 3401.

Academic Learning Compact

Industrial and systems engineering prepares students for industrial practice in product design, process design, plant operation, production control, quality control, facilities planning, work system analysis and evaluation and economic analysis of operational systems. Students will be prepared to use engineering principles to solve problems that require a quantitative basis for decision making and the application of economics, operations research, statistics, mathematics and engineering analysis, with dependence on the computer.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to industrial and systems engineering problems.
2. Design and conduct experiments relevant to industrial and systems engineering processes and problems, as well as to analyze and interpret the data.

Critical Thinking

3. Design industrial engineering decision support systems and manufacturing/service system processes to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints.

Communication

4. Communicate technical information effectively in speech and in writing to other industrial engineers and managers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
COP 2271 and COP 2271L	I			
EIN 3101C				I
EIN 3314C	R	R	R	R
EIN 4321	R	R	R	
EIN 4335	A	A	A	A
EIN 4343	R		R	
EIN 4354	I			
EIN 4401	R		R	
EIN 4905	R	I	R	R
ESI 4221C	R	I	R	R
ESI 4312 and ESI 4313	I		I	
ESI 4327C	I			
ESI 4356 and ESI 4357	A	A	A	A
STA 4321 and STA 4322	I			

Assessment Types

- Instructor's outcome scorecards
- Senior design project evaluations
- Additional assessments include:
  - Exit interviews
  - Co-op/internship evaluations
  - Alumni survey

Materials Science and Engineering

Everything Americans use is composed of materials, from computer chips to flexible concrete skyscrapers, from plastic bags to artificial hips, from fiber optical cables to automobiles. Materials science and engineering makes these materials reliable and useful through design, processing and analysis of controlled compositions, microstructures and properties. Without new materials, the next generation of computers, automobiles, aircraft telecommunications, skyscrapers and medical implants will not exist. Materials of the future will be smart and will think on their own, in addition to meeting traditional property demands. This field abounds with scientific challenges and technological excitement.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Materials Science and Engineering
- **Credits for Degree:** 125
- **Additional Information**
- **Related Materials Science and Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The bachelor's degree program provides a broad materials science and engineering core with specialization in ceramics, electronic materials, metals or polymeric and biomaterials. Biomaterials also is taught at the combined bachelor's/master's level.

Admission Requirements

It is the department's policy to admit the best-qualified transfer applicants as demonstrated by academic achievement.

Successful applicants must have earned:

- An overall 2.5 grade point average, based on the first two attempts, in the eight preprofessional (critical-tracking) courses
- A minimum grade of C in the following:

Code	Title	Credits
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
MAP 2302	Elementary Differential Equations	3
CHM 2045/2095	General Chemistry 1	3
CHM 2045L	General Chemistry 1 Laboratory	1
CHM 2046/2096	General Chemistry 2	3
CHM 2046L	General Chemistry 2 Laboratory	1
PHY 2048 & 2048L	Physics with Calculus 1 and Laboratory for Physics with Calculus 1	4
PHY 2049 & 2049L	Physics with Calculus 2 and Laboratory for Physics with Calculus 2	4

  Only the first two attempts in each course, including withdrawals, will be considered for admission to or retention in the department
- A cumulative minimum GPA of 2.0 is required for all courses

Educational Objectives

The program objectives of the MSE program at the University of Florida are to produce engineering practitioners and graduate students who in three to five years after graduation will:

- Have successful careers in Materials Science and Engineering or related disciplines.
- Be prepared to successfully participate in continuing education or education toward advanced degrees.

Department Requirements

A minimum grade of C is required in ENC 3246.

The department encourages students to accept internships and opportunities to study abroad. However, it is highly recommended that students seek academic advising for appropriate registration planning.

Mission

The department strives to serve the scientific and engineering community of the state and nation by providing quality education in the field, conducting basic and applied research to enhance science in the field, and supplying short courses, technology transfer, industrial consulting and distance learning to promote engineering in the field.

Related Materials Science and Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Materials Science and Engineering minor (p. 1310)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Semester 1

- Complete 1 of 9 critical-tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, CHM 2046 or CHM 2096, EMA 3010, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 9 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the general education international (N) and diversity (D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
ENC 1101	Expository and Argumentative Writing (Take in the fall if you don't place out of it)	
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words [1]		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Two		
Select one:		3
CHM 2046	General Chemistry 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Physical Sciences)	1
ENC 3246	Professional Communication for Engineers (Gen Ed Composition; Writing Requirement: 6,000 words)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**)	4
	Credits	14
Semester Three		
Select one:		3-4
EIN 3354	Engineering Economy	
MAN 3025	Principles of Management	
MAR 3023	Principles of Marketing	
EMA 3010	Materials (**Critical Tracking**)	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences)	3

PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
Select a computer programming course:		2
COP 2271	Computer Programming for Engineers (or see advisor for approved list)	
	Credits	16-17
Semester Four		
EGM 2511	Engineering Mechanics: Statics	3
EMA 3000L	Sophomore Materials Laboratory	1
EMA 3011	Fundamental Principles of Materials	3
EMA 3800	Error Analyses and Optimization Methodologies in Materials Research	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**)	3
PHY 2049L	Laboratory for Physics with Calculus 2	1
	Credits	17
Semester Five		
EEL 3003	Elements of Electrical Engineering	3
EGM 3520	Mechanics of Materials	3
EMA 3050	Introduction to Inorganic Materials	3
EMA 3066	Introduction to Organic Materials	3
EMA 3080C	Materials Laboratory 1 (Writing Requirement: 4,000 words)	2
EMA 4314	Energetics and Kinetics in Materials Science	3
	Credits	17
Semester Six		
EMA 3013C	Materials Laboratory 2 (Writing Requirement: 2,000 words)	2
EMA 3413	Electronic Properties of Materials	3
EMA 3513C	Analysis of the Structure of Materials	4
EMA 4125	Transport Phenomena in Materials Processing	3
EMA 4223	Mechanical Behavior of Materials	3
	Credits	15
Semester Seven		
EMA 4324	Stability of Materials	3
EMA 4913	Research in Materials Science and Engineering 1	1-3
or EMA 4915	or Integrated Product and Process Design Program 1	
Gen Ed Social and Behavioral Sciences; Writing Requirement: 6,000 words; with International or Diversity		3
Senior materials laboratory elective		1
Technical electives		9
	Credits	17-19
Semester Eight		
EMA 4121	Interfacial Engineering	3
EMA 4714	Materials Selection and Failure Analysis	3
EMA 4914	Research in Materials Science and Engineering 2	3
or EMA 4916	or Integrated Product and Process Design Program 2	
State Core Gen Ed Humanities with International or Diversity		3
Technical elective		3
	Credits	15
	Total Credits	125

[1] ACT/SAT placement scores do not exempt this requirement.

Approved Electives

Senior Materials Laboratory Electives

There are corequisite requirements for certain electives. Students taking a laboratory elective must also be enrolled in the corresponding corequisite technical elective course.

Code	Title	Credits
Laboratory Elective		
EMA 4041L	Advanced Ceramics Laboratory 1 [1]	1
EMA 4020L	Metallurgy Laboratory [2]	1
EMA 4061L	Biomaterials Laboratory [3]	1

EMA 4161L	Polymers Laboratory [4]	1
EMA 4414L	Electronic Materials Laboratory [5]	1

1 Corequisite: EMA 4645.

2 Corequisite: EMA 4120.

3 Corequisite: EMA 4061.

4 Corequisite: EMA 4161.

5 Corequisite: EMA 4614.

Technical Electives

Code	Title	Credits
EMA/ENU Courses		
Typically taught in Fall		
EMA 4061	Biomaterials: Structure and Properties	3
EMA 4120	Physical Metallurgy 1	3
EMA 4144	Physical Ceramics 1	3
EMA 4161	Physical Properties of Polymers	3
EMA 4614	Production of Electronic Materials	3
EMA 4623	Process Metallurgy	3
EMA 4645	Processing of Ceramic Materials	3
EMA 4666	Polymer Processing	3
CEMA/ENU Courses		
Typically taught in Spring		
EMA 4062	Biopolymers: Manufacture, Stability and Biocompatibility	3
EMA 4145	Physical Ceramics 2	3
EMA 4224	Physical Metallurgy 2	3
EMA 4462	Polymer Characterization	3
EMA 4615	Compound Semiconductor Materials	3
ENU 4800	Introduction to Nuclear Reactor Materials	3

- 3 credits minimum of technical electives in the fall semester needs to be a materials processing course.
- 3 credits maximum of non-EMA or ENU technical electives can be approved courses from outside the MSE department.

Academic Learning Compact

The major enables students to develop an understanding of materials systems and their role in engineering. Emphasis is placed on the ability to apply knowledge of mathematics, science and engineering principles to materials science and engineering; to design and conduct experiments, as well as to analyze and interpret data; and to design a *program name* system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to materials science and engineering.
2. Design and conduct materials science and engineering experiments and analyze and interpret the data.

Critical Thinking

3. Design a materials science and engineering system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints.

Communication

4. Communicate technical data and design information effectively in speech and in writing to other materials engineers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EMA 3013C				R
EMA 3050	I			
EMA 3066	R		I	
EMA 3080C		I		I
EMA 3513C		R		A
EMA 4223			R	
EMA 4714	A	A	A	

Assessment Types

- Assignments
- Laboratory reports
- Research papers
- Oral presentations
- Exams
- Additional assessments include:
  - Outcome assessment
  - Student exit survey

Materials Science and Engineering Minor

This minor is for engineering and science students with interests in materials science and engineering. Materials concerns are critical to engineering design and analysis and new materials are needed for microelectronic packages, biomedical applications, super-conducting films, tool bits, cutting tools, construction, fuel-efficient engines and other industrial and scientific applications.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 15 | Completed with minimum grades of C
- **Contact:** 108 Rhines Hall (http://campusmap.ufl.edu/?loc=0184)
- **Related Materials Science and Engineering Programs**

This minor provides the academic background to understand materials design, selection and processing. Students are required to complete a minimum of 15 credits of materials-related courses that complement their degree programs.

Required Courses

Code	Title	Credits
EMA 3010	Materials	3
EMA courses (approved by undergraduate coordinator)		12
Total Credits		15

Related Materials Science and Engineering Programs

- Bachelor of Science in Materials Science and Engineering (p. 1305)

Mechanical Engineering

Mechanical engineering is concerned with motion and the processes whereby other energy forms are converted into motion. Mechanical engineers are responsible for conceiving, designing, manufacturing, testing and marketing devices and systems that alter, transfer, transform and utilize the energy forms that cause motion.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Mechanical Engineering
- **Credits for Degree:** 128
- **Additional Information**
- **Related Mechanical and Aerospace Engineering Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The baccalaureate program in mechanical engineering is fully accredited and provides a broad education with a strong foundation in mathematics, science and basic engineering sciences. Advanced courses are available to develop specialized interests in the engineering aspects of manufacturing, robotics, solid mechanics, thermal and fluid systems, dynamics and controls, and biomechanics. Graduates are prepared to work in a variety of industries or to pursue graduate study.

Students considering a career in biomedical engineering should be aware that graduate education is often required. The Herbert Wertheim College of Engineering offers M.S. and Ph.D. degrees in biomedical engineering.

Combined Bachelor's/Master's Degree Program

The mechanical engineering professional often benefits from an advanced degree to meet the challenging needs of industry and government. Accordingly, the Department of Mechanical and Aerospace Engineering actively participates in the combined B.S./M.S. degree program that allows students to double-count graduate courses toward both degrees. The combined-degree program reduces the cost for both degrees and enhances the student's marketability for career advancement. Interested students should contact the MAE department or its website for more information.

Department Requirements

Minimum grades of C are required for the following:

Code	Title	Credits
EGM 2511	Engineering Mechanics: Statics	3
EGM 3344	Introduction to Numerical Methods of Engineering Analysis	3
EGM 3401	Engineering Mechanics: Dynamics	3
EGM 3520	Mechanics of Materials	3
EML 3100	Thermodynamics	3

The minimum C grade is part of the prerequisite requirement for courses listing EGM 2511, EGM 3344, EGM 3401, EGM 3520, or EML 3100 as a prerequisite. The prerequisite course and subsequent course cannot be taken in the same term, even if the prerequisite is being repeated.

An aerospace or mechanical engineering student whose cumulative, upper-division or department grade point average falls below a 2.0 or who does not meet critical tracking requirements will be placed on academic probation and required to complete a probation contract with an MAE academic advisor. Students normally are allowed a maximum of two terms (consecutive or non-consecutive) on academic probation. Students who do not satisfy the conditions of the first term on probation may be dismissed from the department.

All graduating seniors must complete an exit interview with their advisor before graduating.

Dual-Degree Programs

There is much overlap between the aerospace engineering and mechanical engineering curriculum. The first six semesters are identical for both programs. Through proper selection of electives, students can earn a dual mechanical engineering/aerospace engineering degree with one semester of additional work. Contact the Department of Mechanical and Aerospace Engineering or visit the website for more information.

Educational Objectives

The objective of the mechanical engineering program at UF is to prepare students to attain the following goals within a few years of graduation:

- Graduates will meet the expectations of employers of mechanical engineers.
- Qualified graduates will pursue advanced study if they so desire.

Mission

The mission of the undergraduate program is to serve the state of Florida, the United States and the engineering profession by providing quality educational programs in mechanical engineering; conduct a nationally recognized research program; and foster ongoing professional development of students and faculty.

Research Programs

The department's active research programs are sponsored by private industry, the National Science Foundation, Department of Defense, NASA, National Institutes of Health and other agencies.

These programs keep faculty at the leading edge of technology and provides opportunities for students to participate in research through classroom assignments, individual studies, undergraduate research scholarships and employment as research assistants.

Related Mechanical and Aerospace Engineering Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Dual Degree in Mechanical Engineering and Aerospace Engineering
- Bachelor of Science in Aerospace Engineering (p. 1237)
- Biomechanics minor (p. 1261)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=141901&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 8 critical-tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, EML 2023, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses with minimum grades of C in each course within two attempts
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
EML 2920	Department and Professional Orientation	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
Gen Ed Composition; Writing Requirement: 6,000 words (ACT/SAT placement scores do not exempt this requirement)		3
	Credits	15
Semester Two		
EML 2023	Computer Aided Graphics and Design (**Critical Tracking**)	3
ENC 3246	Professional Communication for Engineers (State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
Science elective		3
	Credits	17
Semester Three		
COP 2271	Computer Programming for Engineers (take the matlab section)	2
EGM 2511	Engineering Mechanics: Statics [1]	3
EML 2322L	Design and Manufacturing Laboratory	2
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Physical Sciences)	1
State Core Gen Ed Social and Behavioral Sciences (p. 23) [2]		3
	Credits	18
Semester Four		
EGM 3344	Introduction to Numerical Methods of Engineering Analysis [1]	3
EGM 3520	Mechanics of Materials [1]	3
EMA 3010	Materials	3
EML 3100	Thermodynamics [1]	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
State Core Gen Ed Humanities (p. 23) [2]		3
	Credits	18
Semester Five		
EEL 3003	Elements of Electrical Engineering [3]	3
EGM 3401	Engineering Mechanics: Dynamics [1]	3
EGN 3353C	Fluid Mechanics	3
EML 3301C	Mechanics of Materials Laboratory (Writing Requirement: 6,000 words)	3
Gen Ed Social and Behavioral Sciences [2]		3
	Credits	15
Semester Six		
EML 3005	Mechanical Engineering Design 1	3
EML 4140	Heat Transfer	3
EML 4220	Vibrations	3
EML 4312	Control of Mechanical Engineering Systems	3
Select one:		3
Gen Ed Humanities; Writing Requirement: 6,000 words [2]		
Gen Ed Social and Behavioral Sciences; Writing Requirement: 6,000 words [2]		
	Credits	15
Semester Seven		
EML 4147C	Thermal Sciences Design and Laboratory	3
Select one:		3
EML 4501	Mechanical Engineering Design 2	

EAS 4700	Aerospace Design 1	
EAS 4710	Aerospace Design 2 (can substitute if dual ME/ASE student)	
EML 4507	Finite Element Analysis and Design	3
Technical electives		6
	Credits	15
Semester Eight		
EML 4314C	Dynamics and Controls System Design Laboratory	3
EML 4321	Manufacturing Engineering	3
EML 4502	Mechanical Engineering Design 3	3
Specialization elective		3
Technical elective		3
	Credits	15
	Total Credits	128

1 Minimum grade of C required.

2 Students are also expected to complete the general education international (GE-N) and diversity (GE- D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H or S).

3 Can substitute EEL 3111C.

Approved Electives

Science Elective

Critical Tracking | Select One

Code	Title	Credits
AST 3018	Astronomy and Astrophysics 1	3
BSC 2010	Integrated Principles of Biology 1	3
CHM 2046	General Chemistry 2	3
CHM 2096	Chemistry for Engineers 2	3
PHY 3101	Introduction to Modern Physics	3

Academic Learning Compact

Mechanical engineers are responsible for creating and manufacturing devices and systems that alter, transfer, transform and utilize energy forms that cause motion. The baccalaureate program provides a broad education with a strong foundation in mathematics, science and basic engineering sciences. Advanced courses develop specialized engineering skills in manufacturing, robotics, solid mechanics, thermal and fluid systems, dynamics and controls, and biomechanics.

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Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering principles to mechanical engineering problems.
2. Design and conduct mechanical engineering experiments and analyze and interpret the data.

Critical Thinking

3. Design a mechanical engineering system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability constraints.

Communication

4. Communicate technical data and design information effectively in speech and in writing to other mechanical engineers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EGM 2511	I		I	
EGM 3344	R			
EGM 3401	R			
EGM 3520	A		R	
EGM 4313	R			
EGN 3353C	R			
EML 2023			R	R
EML 2322L	R		A	A
EML 2920				I
EML 3005	R		R	R
EML 3100	A			
EML 3301C	R	I, A		A
EML 4140	R			
EML 4147C	R	R	R	R
EML 4220	R		R	
EML 4304C	R	A	A	A
EML 4312	A		R	
EML 4314C	R	R	R	R
EML 4321	R		R	
EML 4500	R		R	R
EML 4501	R	R	A	R
ENC 3254				R

Assessment Types

- Written exams
- Laboratory and oral reports
- Design project
- Additional assessments include:
  - Exit interview
  - Alumni survey

Metallurgical Engineering Certificate

The metallurgical engineering certificate provides a foundation in the interrelationship of processing, microstructure, and properties of structural metals and alloys.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 10 | Completed with minimum grades of C

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Upon completion of the certificate, students have a fundamental understanding of the processing, microstructures, and properties of metallic structural alloys, as well as materials/process selection and failure analysis.

Prerequisite Courses

Code	Title	Credits
CHM 2045	General Chemistry 1	3
or CHM 2095	Chemistry for Engineers 1	
EMA 3010	Materials	3
EMA 3050	Introduction to Inorganic Materials	3
EMA 4223	Mechanical Behavior of Materials	3
or EGM 3520	Mechanics of Materials	

Required Courses

Code	Title	Credits
EMA 4120	Physical Metallurgy 1	3
EMA 4224	Physical Metallurgy 2	3
EMA 4623	Process Metallurgy	3
EMA 4020L	Metallurgy Laboratory	1
Total Credits		10

Nuclear and Radiological Engineering Minor

Established in 1910, the Herbert Wertheim College of Engineering is the largest professional school, the second-largest college and one of the three largest research units at the University of Florida. The curricula is designed to produce highly skilled engineers and provide each student with a broad range of degree and career choices.

Contact

312 Weil Hall
1949 Stadium Road or
P.O. Box 116550
University of Florida
Gainesville, FL 32611-6550

352.392.2177

Map (http://campusmap.ufl.edu/?loc=0024) More Info (http://www.eng.ufl.edu)

Academic Advising and Career Coaching
Center for Student Excellence
204 Weil Hall
352.392.0944

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 17 minimum, plus 7 credits of prerequisites
- **Related Nuclear Engineering and Science Programs**

Prerequisites

Code	Title	Credits
EML 3007	Elements of Thermodynamics and Heat Transfer	3
or EML 3100	Thermodynamics	
ENU 4001	Nuclear Engineering Analysis 1	4
Total Credits		7

Required Courses

Code	Title	Credits
EGN 3353C	Fluid Mechanics	3
ENU 4103	Reactor Analysis and Computation 1: Statics	4
ENU 4144	Nuclear Power Plant Reactor Systems 1	3
ENU 4605	Radiation Interactions and Sources 1	4

ENU 4612	Nuclear Radiation Detection and Instrumentation	3
Total Credits		17

Suggested Additional Electives

Code	Title	Credits
ENU 4104	Reactor Analysis and Computation 2: Dynamics	3
ENU 4134	Reactor Thermal Hydraulics	4
ENU 4145	Risk Assessment for Radiation Systems	3
ENU 4606	Radiation Interactions and Sources 2	3
ENU 5186	Nuclear Fuel Cycles	3
ENV 4212	Nuclear Power Radioactive Waste Technology	3

Related Nuclear Engineering and Science Programs

- Bachelor of Science in Nuclear Engineering (p. 1325)
- Bachelor of Science in Nuclear and Radiological Sciences (p. 1317)
- Nuclear Radiation and Reactor Analysis certificate (p. 1330)

Nuclear and Radiological Sciences

This degree emphasizes the nuclear sciences rather than nuclear engineering. Students pursue a pre-medical specialization or a pre-medical physics specialization. Any student pursuing this degree must have a selected program, including option area electives, approved in advance by an advisor.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science
- **Specializations:** Pre-Medical (p. 1318) | Pre-Medical Physics (p. 1322)
- **Credits for Degree:** 125
- **Additional Information**
- **Related Nuclear Engineering and Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Diverse opportunities await graduates of the Department of Nuclear and Radiological Engineering (NRE) because nuclear sciences have and will continue to make major contributions to electricity production, medical diagnostic imaging and therapy, non-destructive testing as well as radiation detection and measurement. These opportunities will continue to grow as we face more challenges in energy production and medicine. For the last three decades, the nuclear industry has contributed over 20% of our country's electricity production, and major advances continue to be made in the development of radiation diagnostics and treatment for medical and industrial applications.

Related Nuclear Engineering and Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Nuclear Engineering (p. 1325)
- Nuclear and Radiological Engineering minor (p. 1316)
- Nuclear Radiation and Reactor Analysis certificate (p. 1330)

Academic Learning Compact

The major in nuclear and radiological sciences educates students to work professionally in areas related to the control and safe utilization of nuclear energy, radiation and radioactivity.

Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
- Pass assessment in two or more courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering for problem solving in engineering.
2. Analyze and interpret experimental data.

Critical Thinking

3. Develop an engineering design to meet specific technical requirements within realistic constraints such as economic, environmental, health and safety and reliability.
4. Foster the need for lifelong learning and the ability to adapt this to engineering practice.

Communication

5. Function effectively on multidisciplinary skills teams.
6. Communicate effectively, using both oral and written presentations, in engineering practice.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ENU 4001	I					
ENU 4145						R
ENU 4605	R					
ENU 4612		R	R	R	R	I
ENU 4630		I	I	I	I	
ENU 4641C	A	A	A	A	A	A

Assessment Types

- Assignments
- Exams
- Projects
- Presentations
- Additional assessment includes the senior exit survey

Nuclear and Radiological Sciences | Pre-Medical

This degree emphasizes the nuclear sciences rather than nuclear engineering. Students pursue a pre-medical specialization or a pre-medical physics specialization. Any student pursuing this degree must have a selected program, including option area electives, approved in advance by an advisor.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science
- **Specializations:** Pre-Medical (p. 1318) | Pre-Medical Physics (p. 1322)
- **Credits for Degree:** 125
- **Additional Information**
- **Related Nuclear Engineering and Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Diverse opportunities await graduates of the Department of Nuclear and Radiological Engineering (NRE) because nuclear sciences have and will continue to make major contributions to electricity production, medical diagnostic imaging and therapy, non-destructive testing as well as radiation detection and measurement. These opportunities will continue to grow as we face more challenges in energy production and medicine. For the last three decades, the nuclear industry has contributed over 20% of our country's electricity production, and major advances continue to be made in the development of radiation diagnostics and treatment for medical and industrial applications.

Related Nuclear Engineering and Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Nuclear Engineering (p. 1325)

- Nuclear and Radiological Engineering minor (p. 1316)
- Nuclear Radiation and Reactor Analysis certificate (p. 1330)

Critical Tracking

Note that critical tracking is the same for both specializations.

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=142301&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 8 critical-tracking courses with a minimum grade of C within two attempts: BSC 2010, CHM 2045 or CHM 2095, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are required to complete IDS 1161 in semester 1 or 2. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2010	Integrated Principles of Biology 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	3
BSC 2010L	Integrated Principles of Biology Laboratory 1	1
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4

State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15
Semester Two		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (Gen Ed Biological Sciences)	4
Select one:		3
CHM 2046	General Chemistry 2 (Gen Ed Physical Sciences)	
CHM 2096	Chemistry for Engineers 2	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Physical Sciences)	1
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
	Credits	15
Semester Three		
ENC 3246	Professional Communication for Engineers (Gen Ed Composition; Writing Requirement; minimum grade of C required)	3
State Core Gen Ed Humanities (p. 23)		3
	Credits	6
Semester Four		
CHM 2210	Organic Chemistry 1	3
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	14
Semester Five		
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
COP 2271	Computer Programming for Engineers	2
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**)	3
PHY 2049L	Laboratory for Physics with Calculus 2	1
	Credits	14
Semester Six		
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
ENU 4001	Nuclear Engineering Analysis 1 [1]	4
ENU 4605	Radiation Interactions and Sources 1 [1]	4
ENU 4934	Fundamentals of Nuclear and Radiological Engineering (seminar)	1
	Credits	13
Semester Seven		
APK 2100C	Applied Human Anatomy with Laboratory	4
EEL 3003	Elements of Electrical Engineering	3
EGS 4034	Engineering Ethics and Professionalism	1
PHY 3101	Introduction to Modern Physics	3
Select one:		3
Gen Ed Social and Behavioral Sciences		
Gen Ed Humanities		
	Credits	14
Semester Eight		
STA 3032	Engineering Statistics	3
Gen Ed Social and Behavioral Sciences		3
	Credits	6
Semester Nine		
APK 2105C	Applied Human Physiology with Laboratory	4
ENU 4612	Nuclear Radiation Detection and Instrumentation	3
ENU 4612L	Nuclear Radiation Detection and Instrumentation Laboratory	1
ENU 4630	Fundamental Aspects of Radiation Shielding [1]	3
Engineering elective		3
	Credits	14
Semester Ten		
ENU 4145	Risk Assessment for Radiation Systems [1]	3
ENU 4641C	Applied Radiation Protection [1]	2

Engineering elective		3
Pre-med electives		6
	Credits	14
	Total Credits	125

[1] All nuclear engineering and nuclear engineering sciences majors must pass all required undergraduate department courses with an overall C average.

Approved Electives

Engineering Electives

All technical engineering electives must be approved by a department advisor. At least five credits of technical engineering electives must be ENU courses. Examples include courses in nuclear engineering, engineering materials, thermodynamics, statics, dynamics, and advanced programming.

Examples of Pre-Medical Electives

Code	Title	Credits
PCB 3063	Genetics	4
or AGR 3303	Genetics	
PCB 4723C	Physiology and Molecular Biology of Animals	5
PCB 5235	Immunology	3

Academic Learning Compact

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Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
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Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

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1. Apply knowledge of mathematics, science and engineering for problem solving in engineering.
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Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ENU 4001	I					
ENU 4145						R
ENU 4605	R					
ENU 4612		R	R	R	R	I
ENU 4630		I	I	I	I	
ENU 4641C	A	A	A	A	A	A

Assessment Types

- Assignments
- Exams
- Projects
- Presentations
- Additional assessment includes the senior exit survey

Nuclear and Radiological Sciences | Pre-Medical Physics

This degree emphasizes the nuclear sciences rather than nuclear engineering. Students pursue a pre-medical specialization or a pre-medical physics specialization. Any student pursuing this degree must have a selected program, including option area electives, approved in advance by an advisor.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science
- **Specializations:** Pre-Medical (p. 1318) | Pre-Medical Physics (p. 1322)
- **Credits for Degree:** 125
- **Additional Information**
- **Related Nuclear Engineering and Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Diverse opportunities await graduates of the Department of Nuclear and Radiological Engineering (NRE) because nuclear sciences have and will continue to make major contributions to electricity production, medical diagnostic imaging and therapy, non-destructive testing as well as radiation detection and measurement. These opportunities will continue to grow as we face more challenges in energy production and medicine. For the last three decades, the nuclear industry has contributed over 20% of our country's electricity production, and major advances continue to be made in the development of radiation diagnostics and treatment for medical and industrial applications.

Related Nuclear Engineering and Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Nuclear Engineering (p. 1325)
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Critical Tracking

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Semester 1

- Complete 1 of 8 critical-tracking courses with a minimum grade of C within two attempts: BSC 2010, CHM 2045 or CHM 2095, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2010	Integrated Principles of Biology 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	3
BSC 2010L	Integrated Principles of Biology Laboratory 1	1
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement		3
	Credits	15
Semester Two		
Select one:		3
CHM 2046	General Chemistry 2 (Gen Ed Physical Sciences)	
CHM 2096	Chemistry for Engineers 2	
CHM 2046L	General Chemistry 2 Laboratory (Gen Ed Physical Sciences)	1
ENC 3246	Professional Communication for Engineers (Gen Ed Composition; minimum grade of C required)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
	Credits	14
Semester Three		
State Core Gen Ed Humanities (p. 23)		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	6
Semester Four		
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences)	1
State Core Gen Ed Social and Behavioral Sciences (p. 23)		6
	Credits	14
Semester Five		
COP 2271	Computer Programming for Engineers	2
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
PHY 2049	Physics with Calculus 2 (**Critical Tracking**)	3
PHY 2049L	Laboratory for Physics with Calculus 2	1

STA 3032	Engineering Statistics	3
	Credits	12
Semester Six		
ENU 4001	Nuclear Engineering Analysis 1 [1]	4
ENU 4605	Radiation Interactions and Sources 1 [1]	4
ENU 4934	Fundamentals of Nuclear and Radiological Engineering (seminar)	1
PHY 3101 or PHY 3063	Introduction to Modern Physics or Enriched Modern Physics	3
PHY 3323	Electromagnetism 1	3
	Credits	15
Semester Seven		
APK 2100C	Applied Human Anatomy with Laboratory	4
EEL 3003	Elements of Electrical Engineering	3
EGS 4034	Engineering Ethics and Professionalism	1
PHY 4424	Optics 1	3
Physics elective		3
	Credits	14
Semester Eight		
Engineering electives		6
	Credits	6
Semester Nine		
APK 2105C	Applied Human Physiology with Laboratory	4
ENU 4612	Nuclear Radiation Detection and Instrumentation	3
ENU 4612L	Nuclear Radiation Detection and Instrumentation Laboratory [1]	1
ENU 4630	Fundamental Aspects of Radiation Shielding [1]	3
ENU 4905	Special Problems in Nuclear and Radiological Engineering (individual work)	1
PHY 4604	Introductory Quantum Mechanics 1	3
	Credits	15
Semester Ten		
ENU 4145	Risk Assessment for Radiation Systems [1]	3
ENU 4641C	Applied Radiation Protection [1]	2
Engineering electives		6
Physics elective		3
	Credits	14
	Total Credits	125

[1] All nuclear engineering and nuclear engineering sciences majors must pass all required undergraduate department courses with an overall C average.

Approved Electives

Engineering Electives

All technical engineering electives must be approved by a department advisor. At least five credits of the technical engineering electives must be ENU courses. Examples include courses in nuclear engineering, engineering materials, thermodynamics, statics, dynamics, and advanced programming.

Examples of Pre-Medical Physics Electives

Code	Title	Credits
ENU 5626	Radiation Biology	3
ENU 5658	Imag Sys Med Phys	3

Academic Learning Compact

The major in nuclear and radiological sciences educates students to work professionally in areas related to the control and safe utilization of nuclear energy, radiation and radioactivity.

Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
- Pass assessment in two or more courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering for problem solving in engineering.
2. Analyze and interpret experimental data.

Critical Thinking

3. Develop an engineering design to meet specific technical requirements within realistic constraints such as economic, environmental, health and safety and reliability.
4. Foster the need for lifelong learning and the ability to adapt this to engineering practice.

Communication

5. Function effectively on multidisciplinary skills teams.
6. Communicate effectively, using both oral and written presentations, in engineering practice.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ENU 4001	I					
ENU 4145						R
ENU 4605	R					
ENU 4612		R	R	R	R	I
ENU 4630		I	I	I	I	
ENU 4641C	A	A	A	A	A	A

Assessment Types

- Assignments
- Exams
- Projects
- Presentations
- Additional assessment includes the senior exit survey

Nuclear Engineering

Nuclear engineering includes the design, development and operation of nuclear power systems; numeric simulation of nuclear systems; health physics and radiation protection; radiation imaging; radiation measurements; national security and non-proliferation; nondestructive examination of materials and structures using radiation techniques; use of radiation in medicine for treatment and diagnostics; and using radiation in food processing, industrial processing and manufacturing control.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Degree:** Bachelor of Science in Nuclear Engineering
- **Credits for Degree:** 127
- **Additional Information**
- **Related Nuclear Engineering and Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

A full complement of experimental facilities is available, including a 100 KW research and training reactor, a neutron activation analysis laboratory and a D-D neutron source for radiation studies. The department also has specialized nuclear instrumentation in the radiation detection laboratories located in the Nuclear Science Building and the Nuclear Field Building.

Students should concentrate electives in one discipline to achieve solid familiarity in a minor field of study. These electives, chosen with an advisor, allow option area specialization in reactor engineering, reactor operations, radioisotopes and nuclear radiation technology, and radiation and biological systems.

Transfer Admission Requirements

It is the department's policy to admit the best-qualified transfer applicants as demonstrated by academic achievement. Successful applicants must have earned:

- An overall 2.5 grade point average, based on the first two attempts in the eight preprofessional (critical-tracking) courses;
- Minimum grades of C in the following. Only the first two attempts in each course, including withdrawals, will be considered for admission to or retention in the department:

Code	Title	Credits
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
MAP 2302	Elementary Differential Equations	3
CHM 2045	General Chemistry 1	3
or CHM 2095	Chemistry for Engineers 1	
CHM 2045L	General Chemistry 1 Laboratory	1
Select one:		3
CHM 2046	General Chemistry 2	
or CHM 2096	Chemistry for Engineers 2	
BSC 2010	Integrated Principles of Biology 1	

- A cumulative minimum 2.0 GPA is required for all courses.

Department Requirements

- Minimum grades of C are required in the following:

Code	Title	Credits
ENC 3246	Professional Communication for Engineers	3
ENU 4001	Nuclear Engineering Analysis 1	4
ENU 4191	Elements of Nuclear and Radiological Engineering Design	1
ENU 4192	Nuclear and Radiological Engineering Design	3
ENU 4605	Radiation Interactions and Sources 1	4

- The department encourages students to accept internships and opportunities to study abroad. It is highly recommended that students seek academic advising for appropriate registration planning.
- All nuclear engineering and nuclear radiological sciences majors must pass all required undergraduate department courses with an overall C average.
- All technical electives must be approved by a department advisor. At least six credits of technical electives must be ENU courses.

Educational Objectives

The Department of Nuclear and Radiological Engineering has established the following educational objectives for its undergraduate program.

Graduates will:

- Have successful careers in nuclear engineering or related disciplines
- Pursue continuing education or advanced degrees

Mission

The department will provide quality education and conduct nationally recognized research in nuclear and radiological engineering to serve the needs of Florida and the nation.

Related Nuclear Engineering and Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Bachelor of Science in Nuclear and Radiological Sciences (p. 1317)

- Nuclear and Radiological Engineering minor (p. 1316)
- Nuclear Radiation and Reactor Analysis certificate (p. 1330)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=142301&track=01) may be used for transfer students.

Semester 1

- Complete 1 of 8 critical-tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095; CHM 2046 or CHM 2096 or BSC 2010; MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the general education international (GE-N) and diversity (GE-D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Select one:		3
CHM 2045	General Chemistry 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2095	Chemistry for Engineers 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2045L	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
ENU 1000	Introduction to Nuclear Engineering	1
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics)	4
State Core Gen Ed Composition (p. 23); Writing Requirement: 6,000 words [1]		3
State Core Gen Ed Social and Behavioral Sciences (p. 23)		3
	Credits	15

Semester Two		
ENC 3246	Professional Communication for Engineers (Gen Ed Composition; Writing Requirement: 6,000 words)	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2048	Physics with Calculus 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	3
PHY 2048L	Laboratory for Physics with Calculus 1 (Gen Ed Biological and Physical Sciences)	1
	Credits	14
Semester Three		
ENU 4934	Fundamentals of Nuclear and Radiological Engineering	1
MAC 2313	Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics)	4
PHY 2049	Physics with Calculus 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	3
PHY 2049L	Laboratory for Physics with Calculus 2 (Gen Ed Biological and Physical Sciences)	1
STA 3032	Engineering Statistics	3
Select one:		3
ARH 2000	Art Appreciation: American Diversity and Global Arts (State Core Gen Ed Humanities with Diversity (p. 23))	
THE 2000	Theatre Appreciation (State Core Gen Ed Humanities with Diversity (p. 23))	
	Credits	15
Semester Four		
Select one:		3
BSC 2010	Integrated Principles of Biology 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2046	General Chemistry 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
CHM 2096	Chemistry for Engineers 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	
COP 2271	Computer Programming for Engineers	2
EGM 2511	Engineering Mechanics: Statics	3
EML 3100	Thermodynamics	3
MAP 2302	Elementary Differential Equations (**Critical Tracking**)	3
	Credits	14
Semester Five		
EGM 3520	Mechanics of Materials	3
EMA 3010	Materials	3
Gen Ed Social and Behavioral Sciences with International; Writing Requirement: 6,000 words		3
	Credits	9
Semester Six		
EEL 3003	Elements of Electrical Engineering	3
EGN 3353C	Fluid Mechanics	3
EGS 4034	Engineering Ethics and Professionalism	1
ENU 4001	Nuclear Engineering Analysis 1	4
ENU 4605	Radiation Interactions and Sources 1	4
	Credits	15
Semester Seven		
EML 4140	Heat Transfer	3
ENU 4103	Reactor Analysis and Computation 1: Statics	4
ENU 4144	Nuclear Power Plant Reactor Systems 1	3
ENU 4800	Introduction to Nuclear Reactor Materials	3
atechnical elective		3
	Credits	16
Semester Eight		
ENU 4134	Reactor Thermal Hydraulics	4
ENU 4191	Elements of Nuclear and Radiological Engineering Design	1
ENU 4612	Nuclear Radiation Detection and Instrumentation	3
ENU 4612L	Nuclear Radiation Detection and Instrumentation Laboratory	1
ENU 4630	Fundamental Aspects of Radiation Shielding	3
Technical elective		3
	Credits	15

Semester Nine		
ENU 4145	Risk Assessment for Radiation Systems	3
ENU 4192	Nuclear and Radiological Engineering Design	3
ENU 4505L	Nuclear and Radiological Engineering Laboratory 1 (Writing Requirement: 4,000 words)	3
ENU 4641C	Applied Radiation Protection (Writing Requirement: 2,000 words)	2
Technical elective		3
	Credits	14
	Total Credits	127

[1] ACT/SAT Placement scores do not exempt this requirement.

Technical Electives

The choice of engineering science and technical electives allows emphasis in nuclear power engineering, nuclear instrumentation, criticality safety safeguards, radiation imaging, plasmas/fusion, advanced nuclear reactor concepts and non-proliferation.

Of the nine credits of technical electives required, six credits must be ENU courses 3000-level or above. A maximum of three credits, combined, may come from ENU 4905 or ENU 4949. The final three credits may be any engineering (including ENU), mathematics or science course 3000-level or above.

Academic Learning Compact

The major in nuclear engineering educates students to work professionally in areas related to the control and safe utilization of nuclear energy, radiation and radioactivity.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ABET EAC Program Educational Objectives, Student Outcomes, and Enrollment and Graduation Numbers can be found on the college website (https://www.eng.ufl.edu/academics/degree-programs/accreditation).

Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
- Pass assessment in two or more courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Apply knowledge of mathematics, science and engineering for problem solving in engineering.
2. Design and conduct experiments and analyze and interpret experimental data.

Critical Thinking

3. Develop an engineering design to meet specific technical requirements within realistic constraints such as economic, environmental, health and safety and reliability.
4. Foster the need for lifelong learning and the ability to adapt this to engineering practice.

Communication

5. Function effectively on multidisciplinary skills teams.
6. Communicate effectively, using both oral and written presentations, in engineering practice.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
ENU 4001	I					
ENU 4103	R		I	I		
ENU 4133						

ENU 4134		R	R	R		
ENU 4192	A		A	A	A	A
ENU 4505L		A			R	R
ENU 4612C		I			I	I

Assessment Types

- Instructor's outcome scorecards
- Senior exit survey

Nuclear Radiation and Reactor Analysis Certificate

The nuclear radiation and reactor analysis certificate provides a foundation in radiation and reactor concepts for engineers across multiple majors and industries. The certificate is designed with prerequisites and courses to promote nuclear engineering education across a numerous engineering disciplines.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 11 | Completed with minimum grades of C
- **Related Nuclear Engineering and Science Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

Code	Title	Credits
CHM 2045	General Chemistry 1	3
or CHM 2095	Chemistry for Engineers 1	
CHM 2046	General Chemistry 2	3
or CHM 2096	Chemistry for Engineers 2	
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
PHY 2048	Physics with Calculus 1	3
PHY 2049	Physics with Calculus 2	3
Select one:		3
EGM 4313	Intermediate Engineering Analysis	
MAP 4305	Differential Equations for Engineers and Physical Scientists	

Required Courses

Code	Title	Credits
ENU 4103	Reactor Analysis and Computation 1: Statics	4
ENU 4605	Radiation Interactions and Sources 1	4
ENU 4612	Nuclear Radiation Detection and Instrumentation	3
Total Credits		11

Related Nuclear Engineering and Science Programs

- Bachelor of Science in Nuclear Engineering (p. 1325)
- Bachelor of Science in Nuclear and Radiological Sciences (p. 1317)
- Nuclear and Radiological Engineering minor (p. 1316)

Nuclear Thermal Systems Analysis Certificate

The nuclear thermal systems analysis certificate provides a more in-depth education of thermal systems principles related to nuclear industries. The certificate promotes thermal system understanding of nuclear systems for mechanical engineers or closely related majors.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 10 | Completed with minimum grades of C

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

Code	Title	Credits
CHM 2045	General Chemistry 1 [1]	3
or CHM 2095	Chemistry for Engineers 1	
CHM 2046	General Chemistry 2 [1]	3
or CHM 2096	Chemistry for Engineers 2	
MAC 2311	Analytic Geometry and Calculus 1 [1]	4
MAC 2312	Analytic Geometry and Calculus 2 [1]	4
MAC 2313	Analytic Geometry and Calculus 3 [1]	4
MAP 2302	Elementary Differential Equations [1]	3
PHY 2048	Physics with Calculus 1 [1]	3
PHY 2049	Physics with Calculus 2 [1]	3
Select one:		3
EGM 4313	Intermediate Engineering Analysis [1]	
MAP 4305	Differential Equations for Engineers and Physical Scientists [1]	
Select one:		3
EML 3007	Elements of Thermodynamics and Heat Transfer	
EML 3100	Thermodynamics	
EML 4140	Heat Transfer	
ENU 4605	Radiation Interactions and Sources 1 [1]	4

[1] Minimum grade of C required.

Required Courses

Code	Title	Credits
EGN 3353C	Fluid Mechanics	3
ENU 4134	Reactor Thermal Hydraulics	4
ENU 4144	Nuclear Power Plant Reactor Systems 1	3
Total Credits		10

Polymer Science and Engineering Certificate

The polymer science and engineering (PSE) certificate provides a foundation in polymer synthesis, processing and characterization, and how this relates to polymer structure and properties. This facilitates the proper selection of polymers for various applications such as plastics, composites, biomaterials, organic electronics, and rheology modifiers.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 10 | Completed with minimum grades of C

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

Code	Title	Credits
CHM 2045	General Chemistry 1	3
or CHM 2095	Chemistry for Engineers 1	
CHM 2046	General Chemistry 2	3
or CHM 2096	Chemistry for Engineers 2	
EMA 3010	Materials	3
Select one:		3
EMA 3011	Fundamental Principles of Materials	
CHM 2200	Fundamentals of Organic Chemistry	

CHM 2210	Organic Chemistry 1	
EMA 3066	Introduction to Organic Materials	3

Required Courses

Code	Title	Credits
EMA 4161	Physical Properties of Polymers	3
EMA 4666	Polymer Processing	3
EMA 4462	Polymer Characterization	3
EMA 4161L	Polymers Laboratory	1
Total Credits		10

Sales Engineering Minor

Graduates with this minor are regarded highly by recruiters for industries seeking sales engineering staff. The minor provides the academic background for careers in sales, managerial and entrepreneurial pursuits. Graduates are more effective communicators and are trained to promote and market new technologies and related products.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 16-18 | Completed with a minimum 2.8 combined GPA
- **Contact:** 371 Weil Hall (http://campusmap.ufl.edu/?loc=0024)

Any engineering major is eligible to apply for this minor.

The curriculum enhances the engineering discipline with courses in communications, business, management and accounting. There is a core requirement of seven to eight credits, a communication skills elective requirement of three credits and a management skills elective requirement of six to eight credits.

Required Courses

Code	Title	Credits
Required		
ACG 2021	Introduction to Financial Accounting	3-4
or AEB 3144	Introduction to Agricultural Finance	
AEB 3341	Selling Strategically	3
EGN 4930	Sales Engineer Seminar	1
Select one:		3
CGN 4101	Civil Engineering Cost Analysis	
ECH 4604	Process Economics and Optimization	
EIN 3354	Engineering Economy	
AEB 3300	Agricultural and Food Marketing	3-4
or MAR 3023	Principles of Marketing	
Communications Skills elective		3
Total Credits		16-18

Communications Skills Electives

Code	Title	Credits
AEC 3030C	Effective Oral Communication	3
ENC 3250	Professional Communication	3
ENC 3246	Professional Communication for Engineers	3
SDS 4410	Interpersonal Communication Skills	3
SPC 2300	Introduction to Interpersonal Communication	3
SPC 2608	Introduction to Public Speaking	3

Semiconductor Materials Certificate

The semiconductor materials certificate provides a foundation in the fundamental physics, processing, and technological applications of various semiconductor materials.

About this Program

- **College:** Herbert Wertheim College of Engineering (p. 1231)
- **Credits:** 10 | Completed with minimum grades of C

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

Code	Title	Credits
CHM 2045	General Chemistry 1	3
or CHM 2095	Chemistry for Engineers 1	
EMA 3010	Materials	3
EMA 3413	Electronic Properties of Materials	3
EEL 3003	Elements of Electrical Engineering	3-4
or EEL 3111C	Circuits 1	

Required Courses

Code	Title	Credits
EEL 3008	Physics of Electrical Engineering	3
EMA 4614	Production of Electronic Materials	3
EMA 4615	Compound Semiconductor Materials	3
EMA 4414L	Electronic Materials Laboratory	1
Total Credits		10

Construction Management, M.E. Rinker, Sr., School of

Established in 1935, the M.E. Rinker, Sr. School of Construction Management is the oldest continuous construction management program in the country. The school offers majors in Construction Management and Fire and Emergency Services; and certificates in Construction Management, Emergency Medical Services Management, and Fire and Emergency Services Management.

Contact

304 Rinker Hall
P.O. Box 115703
University of Florida
Gainesville, FL 32611-5703

352.273.1150

Map (http://campusmap.ufl.edu/?loc=0272) More Info (http://www.bcn.ufl.edu)

Academic Advising
301 Rinker Hall
352.273.1180

Established

1935 through the architecture program. Became a department in 1957 and a school in 1976.

Accredited

American Council for Construction Education

Degrees

Bachelor of Science in Construction Management (B.S.C.M), Bachelor of Science in Fire and Emergency Services (B.S.F.E.S.)

Certificates

EMS Management, FES Management, Construction Management

Scholarships

General financial aid information is available from the Office of Student Financial Affairs. The school can provide scholarship information for third- and fourth-year building construction students.

Internships and Career Guidance

The school has a job placement office and also hosts a building construction job fair each semester.

Research Centers

Shimberg Center for Housing Studies, the Powell Center for Construction and Environment, the Fluor Program for Construction Safety and the Center for Advanced Construction Information Modeling.

Helpful Links

- School Website (https://dcp.ufl.edu/rinker)
- Combined Degrees (p. 1400)
- Computer Requirement (http://www.bcn.ufl.edu/computer-requirement)
- Student Clubs (http://www.bcn.ufl.edu/studentactivities/student-clubs)

Academic Policies

Application Deadlines

Students are admitted for third-year professional coursework in the fall and spring semesters for construction management and each semester for fire and emergency services. Application procedures, receipt of transcripts and school requirements for admission should be completed by the application deadline (http://www.admissions.ufl.edu/ugrad/trappdates.html). Late applications are not accepted.

Dean's List (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#deanslisttext)

Normal Academic Progress

Students must maintain normal academic progress with a minimum GPA of 2.0 for all courses attempted in the junior and senior years. Students must take courses in the sequence specified. Students may be dismissed from the program if they fail to maintain normal academic progress.

Normal Course Loads

The average course load for building construction students is 16 credits. Students who wish to take fewer than 12 credits should be aware that certain university privileges and benefits require a minimum course load. It is the student's responsibility to verify the minimum course load necessary for these privileges and benefits.

Student Work

The Rinker School reserves the right to retain all student work for the purpose of record, exhibition or instruction.

Probation and Dismissal

Students who do not make satisfactory academic progress will be excluded from further registration.

Students who receive a failing grade in a BCN course will be dismissed if they subsequently receive a failing grade in the same course.

Students failing two or more BCN courses in any semester will be dismissed.

Student Responsibility

Before enrolling, it is the student's responsibility to review and consider all pertinent information about the university and the school. Special attention must be paid to required documentation, degree requirements and deadlines.

Waiver of Liability

Several courses require field trips. All students must sign a waiver of liability and a hold harmless agreement as a prerequisite to admission to the School of Construction Management. In addition, student organizations are represented at conferences, seminars and projects outside of campus. A separate, similar waiver will be used for students who participate in these voluntary activities.

Admission to Construction Management

Admission to CM is **selective** and is given to those applicants whose potential indicates the greatest likelihood of success in the program.

All Students

- The school has limited admission. An applicant's satisfaction of minimum requirements does not guarantee admission. The school has established a selective process for admission and only a limited number of new students are accepted each fall and spring term. No distinction is made between internal and external transfers. Students may apply only twice to upper division.
- Students must attain a minimum 2.50 GPA in construction management prerequisite coursework and have an overall 2.50 GPA for all freshman and sophomore work required for a baccalaureate degree in construction management.
- Students must submit SAT or ACT scores, which will be evaluated for admission selection. Students are ranked and admitted based on an evaluation of their construction management prerequisite coursework and their SAT or ACT scores.
- Students must submit a personal statement outlining their reasons for applying to the Rinker School. Consideration is also given to the number of preprofessional courses remaining, as well as to the applicant's letter of intent, work experience, personal references and participation in student organizations and community events.
- Students must complete two sequential courses of foreign language in secondary school, 8-10 credits at the postsecondary level or document an equivalent level of proficiency.

Transfer Students

Students attending four-year colleges should follow a program of general education and preprofessional courses equivalent to the basic curriculum for entry to the Rinker School.

Junior college and public college students must meet the following requirements:

- Complete the university transfer program at the junior college.
- Complete the A.A. degree.
- Complete all prerequisite general education and preprofessional courses, or acceptable substitutes.
- Meet with an academic advisor in the Rinker School before applying to upper division.
- Can transfer up to 15 credits from another ACCE accredited four-year program.

Admission to Fire and Emergency Services

All Students

- An Associate of Arts degree from a Florida state college -OR- 60+ transferrable credits from a regionally accredited college or university (may require additional coursework to satisfy the state of Florida general education requirements).
- A minimum 2.30 GPA in fire and emergency services prerequisite coursework and have an overall 2.30 GPA for all freshman and

sophomore work required for a baccalaureate degree in fire and emergency services.
- Complete two sequential courses of foreign language in secondary school, 8-10 credits at the postsecondary level *or* document an equivalent level of proficiency.
- Credits beyond the 60 required for admission to the school will not reduce the number of credits to be completed in the junior and senior years to earn a degree. These courses may not be accepted for equivalent credit.
- Travel may be required

Transfer Students

Students attending four-year colleges should follow a program of general education and preprofessional courses equivalent to the basic curriculum for entry to the school.

Junior college and public college students should:

- Complete the university transfer program at the junior college.
- Complete the A.A. degree.
- Complete all prerequisite general education and preprofessional courses, or acceptable substitutes.

Degree Requirements

Seniors must file a formal application for degree on ONE.UF (https://one.uf.edu) by the deadline (p. 1442), which is early in the semester in which they expect to receive the degree.

To receive the Bachelor of Science in Construction Management, a student must complete all of the following satisfactorily:

- Complete 64 credits of construction management prerequisite requirements.
- Complete the approved program in construction management, consisting of 61 credits of 3000/4000-level coursework taken in the junior/senior years.
- Attain a minimum 2.0 overall GPA.
- Attain a minimum 2.0 GPA on all 3000/4000-level degree requirements.
- A minimum of 125 credits is required for graduation. The waiving of any required course does not reduce the credits required for graduation.

Degree Requirements for Fire and Emergency Services

Seniors must file a formal application for degree on ONE.UF (https://one.uf.edu), by the deadline (p. 1442), which is early in the semester in which they expect to receive the degree.

To receive the Bachelor of Science in Fire and Emergency Services, a student must complete all of the following satisfactorily:

- Complete the approved program in fire and emergency services, consisting of 60 credits of 3000/4000-level coursework taken in the junior/senior years.
- Attain a minimum 2.0 overall GPA.
- Complete a minimum of 120 credits. The waiving of any required course does not reduce the credits required for graduation.

Graduating with Honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

Programs

MAJORS

- Construction Management

CERTIFICATES

- Construction Management Certificate
- Emergency Management Certificate
- Emergency Medical Services Management Certificate
- Senior Fire Officer Certificate

UF ONLINE MAJORS

- Fire and Emergency Services UF Online

Construction Management

Bachelor of Science in Construction Management is a four-year program for students interested in careers in construction management, techniques, operations and related areas in the construction industry. The degree draws upon skills in communication and interpersonal relations.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **School:** M.E. Rinker, Sr. School of Construction Management (p. 1333)
- **Degree:** Bachelor of Science in Construction Management
- **Credits for Degree:** 125
- **Contact:** 352.273.1180 | 304 Rinker Hall (http://campusmap.ufl.edu/?loc=0272)
- **Additional Information**
- **Related Construction Management Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Opportunities for advancement and increasing responsibility exist in all areas of the construction industry, including land development; home building; public building; industrialized building systems; commercial, industrial, marine and heavy construction; underwater development; space-age facilities; materials and equipment sales and installations; and construction product research, development, sales and applications.

Related Construction Management Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Construction Management certificate (p. 1339)

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=151001&track=01) may be used for transfer students.

Semester 1

- Complete 3 of 14 critical-tracking courses for a total of 9 credits: ACG 2021, BCN 1210, BCN 1251C (or ARC 1301 and ARC 1302), BCN 2405C, BUL 4310, ECO 2013, ENC 1102, ENC 3254, MAC 2311, STA 2023, PHY 2053/PHY 2053L, PHY 2054/PHY 2054L, SPC 2608, SPN 1180
- 2.35 UF GPA required

Semester 2

- Complete 13 additional credits of critical-tracking courses
- 2.4 UF GPA required

Semester 3

- Complete 11 additional credits of critical-tracking courses
- 2.45 UF GPA required

Semester 4

- Complete 15 additional credits of critical-tracking courses
- 2.5 GPA on all attempts of critical-tracking courses
- 2.5 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BCN 1210	Construction Materials (**Critical Tracking**) [2]	3
BCN 1582	International Sustainable Development (Gen Ed Social and Behavioral Sciences and International)	3
DCP 1003 or BCN 1001	Creating our Built Environment or Introduction to Construction Management	1
ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition (p. 23)) [1, 2]	3
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences) [2]	5
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
	Credits	18
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
ENC 1102	Argument and Persuasion (**Critical Tracking**; Gen Ed Composition) [2]	3
IDS 1161	What is the Good Life (Gen Ed Humanities)	3

PHY 2054	Physics 2	5
& 2054L	and Laboratory for Physics 2 (**Critical Tracking**; Gen Ed Physical Sciences) [2]	
SPN 1180	Elementary Spanish: Review and Progress (**Critical Tracking**)	3
	Credits	18
Semester Three		
BCN 1251C	Construction Drawing (**Critical Tracking**)	3
BCN 2405C	Construction Mechanics (**Critical Tracking**) [2]	4
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [2]	4
State Core Gen Ed Humanities with Diversity (p. 23)		3
	Credits	14
Semester Four		
ACG 2021	Introduction to Financial Accounting (**Critical Tracking**)	4
BUL 4310	The Legal Environment of Business (**Critical Tracking**)	4
ENC 3254	Professional Writing in the Discipline (**Critical Tracking**; Gen Ed Composition) [2]	3
SPC 2608	Introduction to Public Speaking (**Critical Tracking**)	3
	Credits	14
Semester Five		
BCN 3027C	Principles of Construction Management	3
BCN 3224C	Construction Techniques	3
BCN 3255C	Graphic Communication in Construction	3
BCN 3431C	Structures	3
BCN 3730	Construction, Safety, Health and the Environment	3
	Credits	15
Semester Six		
BCN 3223C	Soils and Concrete	3
BCN 3521C	Electrical Systems	2
BCN 3611C	Construction Estimating 1	3
BCN 3700	Construction Contracts	3
MAN 3025	Principles of Management (Gen Ed Social and Behavioral Sciences)	4
BCN elective		2
	Credits	17
Semester Seven		
BCN 4423C	Temporary Structures	3
BCN 4510C	Mechanical Systems	4
BCN 4612C	Construction Estimating 2	3
BCN 4720	Construction Planning and Control	3
BCN elective		3
	Credits	16
Semester Eight		
BCN 3281C	Construction Methods Laboratory (Surveying)	2
BCN 4709C	Construction Project Management	3
BCN 4787C	Construction Capstone Project	3
BCN 4753	Construction Finance	3
Elective (BCN or approved)		2
	Credits	13
	Total Credits	125

1 If you place out of ENC 1101, take ENC 1102.

2 Minimum grade of C- required.

Residential Option

Building construction students may graduate with a residential option if they choose the option by registration for semester 6.

Required electives:

Code	Title	Credits
Select one:		
REE 4303	Real Estate Investment Decision Making	

BCN 4237	Roofing Systems	
BCN 4787C	Construction Capstone Project (a residential project)	3

Combined BS/MSCM and BS/MCM Degree Programs

The combined-degree programs require the same freshman, sophomore and junior course requirements as the B.S.C.M. program. The senior-year courses vary, as follows:

Course	Title	Credits
Semester Seven		
BCN 4423C	Temporary Structures	3
BCN 4510C	Mechanical Systems	4
BCN 4612C	Construction Estimating 2	3
BCN 4720	Construction Planning and Control	3
Graduate-level elective		3
	Credits	16
Semester Eight		
BCN 3281C	Construction Methods Laboratory (Surveying)	2
BCN 4753	Construction Finance	3
BCN 5705C	Proj Manage Construc	3
BCN 5789C	Constru Project Del	3
Graduate-level elective		2
	Credits	13
	Total Credits	29

Summary

Code	Title	Credits
Fifth Year Additional Credits for M.S.C.M		18
Total Credits for M.S.C.M.		143
Fifth Year Additional Credits for M.C.M.		24
Total Credits for M.C.M.		149

Academic Learning Compact

The Bachelor of Science in Construction Management prepares students for a career in the construction industry.

Before Graduating Students Must

- Pass the performance based capstone course utilizing Construction Project Simulation.
- Successfully utilize and interpret the Florida Building Code in classroom tests and reports.
- Satisfy formal presentation requirements; attend field trips and submit reports for them that demonstrate proficiency in writing professional memos and letters.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Interpret knowledge of engineering, materials, methods, equipment and processes to safely construct buildings and structures.
2. Survey and quantify building components to estimate project costs, analyze progress and control expenditures.

Critical Thinking

3. Create an effective planning, scheduling and control system by identifying, evaluating and organizing the diverse elements of a construction project.
4. Set up and manage project administration and management systems to efficiently document and monitor the construction process.

Communication

5. Describe technical and financial data effectively in speech and in writing to all stakeholders in the construction process.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
BCN 3027C			I	I	I
BCN 3223C	R				
BCN 3224C	I			I	I
BCN 3255C	I				I
BCN 3281C	R				
BCN 3431C	I				
BCN 3521C	R				
BCN 3611C		I		I	
BCN 3700				R	
BCN 3730	I				I
BCN 4423C	R				
BCN 4510C	A				
BCN 4612C		R			
BCN 4709C				R	R
BCN 4720			R		R
BCN 4753		R			R
BCN 4787C	A	A	A	A	A

Assessment Types

- Exams
- Writing assignments
- Presentations
- The American Institute of Constructors (AIC) Level 1: Associate Constructor's exam, the first step toward AIC Professional Constructor Certification

Construction Management Certificate

The construction management certificate is intended for seniors enrolled in construction-related programs (e.g., civil engineering) in universities other than UF wherein students spend one semester at UF completing four construction management courses.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **School:** M.E. Rinker, Sr. School of Construction Management (p. 1333)
- **Credits:** 12 | Completed with minimum grades of C or better and a combined grade average of 2.50 from all courses
- **Contact:** 352.273.1180 | 304 Rinker Hall (http://campusmap.ufl.edu/?loc=0272)
- **Related Construction Management Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

- A senior enrolled in an undergraduate degree program in a construction-related field (e.g., civil engineering) reviewed and approved by the school's faculty.
- Demonstrated English communication skills.
- Students from non-exempt countries must demonstrate proficiency in English by providing TOEFL or TSE scores.

Required Courses

Students will be awarded the certificate if they complete four of the following upper-division construction management courses with a combined GPA of 2.5 or better and a 2.0 or better in each course.

Code	Title	Credits
Select four:		12
BCN 3224C	Construction Techniques	
BCN 3240C	Equipment and Methods for Heavy/Highway Construction	
BCN 5784		
BCN 3255C	Graphic Communication in Construction	
BCN 3611C	Construction Estimating 1	
or BCN 5618C	Comprehen Estimating	
BCN 3730	Construction, Safety, Health and the Environment	
or BCN 5737	Adv Issue Cons Safety	
BCN 4709C	Construction Project Management	
or BCN 5705C	Proj Manage Construc	
BCN 4720	Construction Planning and Control	
or BCN 5722	Adv Constru Plan/Cont	
Total Credits		12

Related Construction Management Programs

- Bachelor of Science in Construction Management (p. 1335)

Emergency Management Certificate

This certificate focuses on the management and communication skills necessary for working professionals in the emergency management industry.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **School:** M.E. Rinker, Sr. School of Construction Management (p. 1333)
- **Credits:** 15, with minimum grades of C
- **Related Emergency Management Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

- Experience or certification in emergency management or equivalent
- An associate's (A.A./A.S.) degree

Required Courses

Code	Title	Credits
FES 3533	Community Risk Reduction for Emergency Services	3
or FES 4234	EMS Community Risk Reduction	
FES 3822	Disaster Policy in Emergency Management	3
FES 4014	Foundations of Emergency Management	3
FES 4825	Disaster Planning and Control	3
FES 4884	Introduction to Terrorism in Emergency Management	3
Total Credits		15

Related Emergency Management Programs

- Bachelor of Science in Fire and Emergency Services, Emergency Medical Services Management (p. 1341)
- Bachelor of Science in Fire and Emergency Services, UF Online (p. 1341)
- Emergency Medical Services Management certificate (p. 1340)

Emergency Medical Services Management Certificate

This certificate focuses on the management and communication skills necessary for working professionals in the emergency medical services industry.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **School:** M.E. Rinker, Sr. School of Construction Management (p. 1333)
- **Credits:** 15 | Completed with minimum grades of C
- **Related Emergency Management Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

- A non-degree-seeking working professional in the emergency medical services industry
- Experience or certification in fire and/or emergency services
- An associate's (A.A./A.S.) degree in a related subject area

Required Courses

Code	Title	Credits
FES 3284	Management of Emergency Medical Services	3
FES 3285	Advanced Leadership Issues in Emergency Medical Services	3
FES 3720	Strategic Planning for FES	3
FES 4224	Management of Mass Casualty Incidents	3
FES 4244	Legal, Political, and Regulatory in EMS	3
Total Credits		15

Related Emergency Management Programs

- Bachelor of Science in Fire and Emergency Services, Emergency Medical Services Management (p. 1341)
- Bachelor of Science in Fire and Emergency Services, UF Online (p. 1341)
- Emergency Management Certificate (p. 1340)

Fire and Emergency Services UF Online

Fire and emergency services degree program is designed to add the academic substance to prepare graduates to lead public or private sector fire, EMS and emergency management. Students earn a bachelor of science with the ability to specialize in fire, emergency medical services management or emergency management.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **School:** M.E. Rinker, Sr. School of Construction Management (p. 1333)
- **Degree:** Bachelor of Science in Fire and Emergency Services
- **Specializations:** Fire Management (p. 1352) | Emergency Medical Services Management (p. 1348) | Emergency Management (p. 1344)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Fire and Emergency Services Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The program specializations offer the student the ability to focus their degree in three different aspects of the emergency services industry. The program prepares the graduates for advancement in the ranks for the fire service, EMS and emergency management. In addition, graduates can find jobs at the local, state and national level of government, insurance companies, industry, and other areas. Students may apply to the university at the junior year after earning the Associate of Arts degree from a Florida state college or other regionally accredited academic institution. Freshman and sophomore coursework will be taken at a Florida state or public college or other regionally accredited academic institution.

After being accepted, students can pursue a Bachelor of Science without moving to Gainesville. Coursework for the junior and senior years will be offered via electronic distance learning, and UF faculty will teach and advise students in the program.

Students need access to a personal computer capable of connecting to the Internet.

Course requirements for the Degree

The B.S. degree is for students with different professional objectives. All students, regardless of specialization, are required to take FES 3015 Principles of Fire and Emergency Services Management as their opening course.

Each specialization has a specific set of required core courses required courses and electives of upper-division courses that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. The required courses are designed to be applicable across all specializations. The electives allow the students to select courses that meet their career interest. Upper-division courses are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Coursework

Fire Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3004	Political and Legal Foundations of Fire Protection	3
FES 3533	Community Risk Reduction for Emergency Services	3
FES 3782	Applications of Fire Research	3
FES 4003	Fire and Emergency Services Administration	3
FES 4045	Fire and Emergency Services Human Resource Management	3
FES 4585	Management of Fire Prevention Programs	3
FES 3815	Command and Control at Catastrophic Fire-Rescue Incidents	3
Total Credits		21

EMS Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3223	Foundations of EMS	3
FES 3233	EMS Safety and Risk Management	3
FES 3284	Management of Emergency Medical Services	3
FES 4244	Legal, Political, and Regulatory in EMS	3
FES 4274	Quality Management and Research in Emergency Services	3
FES 4234	EMS Community Risk Reduction	3
FES 4224	Management of Mass Casualty Incidents	3
Total Credits		21

Emergency Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3533	Community Risk Reduction for Emergency Services	3
FES 3822	Disaster Policy in Emergency Management	3
FES 4003	Fire and Emergency Services Administration	3
FES 4014	Foundations of Emergency Management	3
FES 4045	Fire and Emergency Services Human Resource Management	3
FES 4884	Introduction to Terrorism in Emergency Management	3
FES 3815	Command and Control at Catastrophic Fire-Rescue Incidents	3
Total Credits		21

All Specializations

Code	Title	Credits
Required Coursework for All Specializations		
FES 3153	FES Communication and Informational Technology	3
FES 3753	Fire and Emergency Services Financial Management	3
FES 4023	Fire and Emergency Services Ethical Practices and Leadership	3
FES 4055	Fire and Emergency Services Public Relations	3
FES 4825	Disaster Planning and Control	3
FES 3720	Strategic Planning for FES	3
FES 3015	Principles of Fire and Emergency Services Management	3
Electives		
Select six:		18
EMS 4315	Analytical Approaches to EMS	
FES 3285	Advanced Leadership Issues in Emergency Medical Services	

FES 3780	Analytical Approaches to Fire Protection
FES 3803	Multi-Agency Incident Command
FES 4034	Regulatory Issues in Fire and Emergency Services
FES 4226	EMS Special Operations
FES 4685	Fire Investigation and Analysis
FES 4804	Disaster Recovery and Mitigation
FES 4820	Critical Incident Management for Emergency Managers
FES 4835	Natural Disaster Phenomena in Florida
FES 4905	Special Studies in Fire and Emergency Services
FES 4935	Current Issues in Fire and Emergency Services
FES 3263	Public Safety Educator
FES 3227	Ambulance Operations
FFP 4507	Management of Fire-Related Human Behavior
Any course from other core courses	
Total Credits	39

Related Fire and Emergency Services Programs

- Emergency Management certificate (p. 1340)
- Emergency Medical Services Management certificate (p. 1340)
- Senior Fire Officer certificate (p. 1355)

Academic Learning Compact

The School of Construction Management offers an accessible Bachelor of Science program for members of the fire and emergency services. This degree program is designed to build on students' experience in the fire service and to add the academic substance to prepare students to lead public or private sector fire and emergency service units.

Before Graduating Students Must

- Demonstrate ability in management, labor issues and operations.
- Demonstrate ability in services related to medical, disaster and human resources.
- Demonstrate ability in public relations, ethical practices and leadership.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and evaluate organizational problems associated with fire and emergency services.
2. Identify and demonstrate proper knowledge and use of comprehensive emergency management/command and control skills in major catastrophic incidents in fire and emergency services.
3. Illustrate knowledge and legal application of safety, health and environmental regulations at state and federal levels.

Critical Thinking

4. Demonstrate effective leadership behavior and skills in fire and emergency services.
5. Properly address issues of management, code regulations and the labor market in fire and emergency services.

Communication

6. Demonstrate strong verbal and written communication skills for leadership in fire and emergency services.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
FES 3015	I	I	I	I	I	I
FES 3033	I		I	I	I	I
FES 3153	I					
FES 3284	I, R	I, R	I, R	I, R	I, R	I, R
FES 3285	I, R		I, R	I, R	I, R	
FES 3753	I			I		I

FES 3755	I, R		I, R	I, R		I, R
FES 3803	I	I, R	I	I, R		I
FES 3815	R		R			I, R
FES 3823		A	I, R	I, R		I, R
FES 4003	R		I, R	R	R	A
FES 4023	R			A		A
FES 4034			A			
FES 4045					A	
FES 4055						R
FES 4224	A					
FES 4585	A					
FES 4825		R				
FES 4935	R					

Assessment Types

- Exams
- Final papers

Fire and Emergency Services | Emergency Management

Fire and emergency services degree program is designed to add the academic substance to prepare graduates to lead public or private sector fire, EMS and emergency management. Students earn a bachelor of science with the ability to specialize in fire, emergency medical services management or emergency management.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **School:** M.E. Rinker, Sr. School of Construction Management (p. 1333)
- **Degree:** Bachelor of Science in Fire and Emergency Services
- **Specializations:** Fire Management (p. 1352) | Emergency Medical Services Management (p. 1348) | Emergency Management (p. 1344)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Fire and Emergency Services Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The program specializations offer the student the ability to focus their degree in three different aspects of the emergency services industry. The program prepares the graduates for advancement in the ranks for the fire service, EMS and emergency management. In addition, graduates can find jobs at the local, state and national level of government, insurance companies, industry, and other areas. Students may apply to the university at the junior year after earning the Associate of Arts degree from a Florida state college or other regionally accredited academic institution. Freshman and sophomore coursework will be taken at a Florida state or public college or other regionally accredited academic institution.

After being accepted, students can pursue a Bachelor of Science without moving to Gainesville. Coursework for the junior and senior years will be offered via electronic distance learning, and UF faculty will teach and advise students in the program.

Students need access to a personal computer capable of connecting to the Internet.

Course requirements for the Degree

The B.S. degree is for students with different professional objectives. All students, regardless of specialization, are required to take FES 3015 Principles of Fire and Emergency Services Management as their opening course.

Each specialization has a specific set of required core courses required courses and electives of upper-division courses that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. The required courses are designed to be applicable across all specializations. The electives allow the students to select courses that meet their career interest. Upper-division courses are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Coursework

Fire Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3004	Political and Legal Foundations of Fire Protection	3
FES 3533	Community Risk Reduction for Emergency Services	3
FES 3782	Applications of Fire Research	3
FES 4003	Fire and Emergency Services Administration	3
FES 4045	Fire and Emergency Services Human Resource Management	3
FES 4585	Management of Fire Prevention Programs	3
FES 3815	Command and Control at Catastrophic Fire-Rescue Incidents	3
Total Credits		21

EMS Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3223	Foundations of EMS	3
FES 3233	EMS Safety and Risk Management	3
FES 3284	Management of Emergency Medical Services	3
FES 4244	Legal, Political, and Regulatory in EMS	3
FES 4274	Quality Management and Research in Emergency Services	3
FES 4234	EMS Community Risk Reduction	3
FES 4224	Management of Mass Casualty Incidents	3
Total Credits		21

Emergency Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3533	Community Risk Reduction for Emergency Services	3
FES 3822	Disaster Policy in Emergency Management	3
FES 4003	Fire and Emergency Services Administration	3
FES 4014	Foundations of Emergency Management	3
FES 4045	Fire and Emergency Services Human Resource Management	3
FES 4884	Introduction to Terrorism in Emergency Management	3
FES 3815	Command and Control at Catastrophic Fire-Rescue Incidents	3
Total Credits		21

All Specializations

Code	Title	Credits
Required Coursework for All Specializations		
FES 3153	FES Communication and Informational Technology	3
FES 3753	Fire and Emergency Services Financial Management	3
FES 4023	Fire and Emergency Services Ethical Practices and Leadership	3
FES 4055	Fire and Emergency Services Public Relations	3
FES 4825	Disaster Planning and Control	3
FES 3720	Strategic Planning for FES	3
FES 3015	Principles of Fire and Emergency Services Management	3
Electives		
Select six:		18
EMS 4315	Analytical Approaches to EMS	
FES 3285	Advanced Leadership Issues in Emergency Medical Services	
FES 3780	Analytical Approaches to Fire Protection	
FES 3803	Multi-Agency Incident Command	
FES 4034	Regulatory Issues in Fire and Emergency Services	
FES 4226	EMS Special Operations	
FES 4685	Fire Investigation and Analysis	
FES 4804	Disaster Recovery and Mitigation	
FES 4820	Critical Incident Management for Emergency Managers	
FES 4835	Natural Disaster Phenomena in Florida	
FES 4905	Special Studies in Fire and Emergency Services	
FES 4935	Current Issues in Fire and Emergency Services	
FES 3263	Public Safety Educator	

FES 3227	Ambulance Operations
FFP 4507	Management of Fire-Related Human Behavior
Any course from other core courses	
Total Credits	39

Related Fire and Emergency Services Programs

- Emergency Management certificate (p. 1340)
- Emergency Medical Services Management certificate (p. 1340)
- Senior Fire Officer certificate (p. 1355)

Emergency Management

For students seeking careers in emergency management in the public or private sector.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=430203&track=01) may be used for transfer students.

Model Semester Plan

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
FES 3015	Principles of Fire and Emergency Services Management	3
FES 3815	Command and Control at Catastrophic Fire-Rescue Incidents	3
	Credits	6
Semester Two		
FES 3720	Strategic Planning for FES	3
FES 4003	Fire and Emergency Services Administration	3
	Credits	6
Semester Three		
Electives		6
	Credits	6
Semester Four		
FES 3533	Community Risk Reduction for Emergency Services	3
FES 4884	Introduction to Terrorism in Emergency Management	3
	Credits	6
Semester Five		
FES 4014	Foundations of Emergency Management	3
Elective		3
	Credits	6
Semester Six		
FES 3153	FES Communication and Informational Technology	3
FES 4825	Disaster Planning and Control	3
	Credits	6
Semester Seven		
FES 3822	Disaster Policy in Emergency Management	3
FES 4045	Fire and Emergency Services Human Resource Management	3
Elective		3
	Credits	9
Semester Eight		
FES 3753	Fire and Emergency Services Financial Management	3
FES 4023	Fire and Emergency Services Ethical Practices and Leadership	3
Elective		3
	Credits	9
Semester Nine		
FES 4055	Fire and Emergency Services Public Relations	3

Elective		3
	Credits	6
	Total Credits	60

Academic Learning Compact

The School of Construction Management offers an accessible Bachelor of Science program for members of the fire and emergency services. This degree program is designed to build on students' experience in the fire service and to add the academic substance to prepare students to lead public or private sector fire and emergency service units.

Before Graduating Students Must

- Demonstrate ability in management, labor issues and operations.
- Demonstrate ability in services related to medical, disaster and human resources.
- Demonstrate ability in public relations, ethical practices and leadership.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and evaluate organizational problems associated with fire and emergency services.
2. Identify and demonstrate proper knowledge and use of comprehensive emergency management/command and control skills in major catastrophic incidents in fire and emergency services.
3. Illustrate knowledge and legal application of safety, health and environmental regulations at state and federal levels.

Critical Thinking

4. Demonstrate effective leadership behavior and skills in fire and emergency services.
5. Properly address issues of management, code regulations and the labor market in fire and emergency services.

Communication

6. Demonstrate strong verbal and written communication skills for leadership in fire and emergency services.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
FES 3015	I	I	I	I	I	I
FES 3033	I		I	I	I	I
FES 3153	I					
FES 3284	I, R	I, R	I, R	I, R	I, R	I, R
FES 3285	I, R		I, R	I, R	I, R	
FES 3753	I			I		I
FES 3755	I, R		I, R	I, R		I, R
FES 3803	I	I, R	I	I, R		I
FES 3815	R		R			I, R
FES 3823		A	I, R	I, R		I, R
FES 4003	R		I, R	R	R	A
FES 4023	R			A		A
FES 4034			A			
FES 4045					A	
FES 4055						R
FES 4224	A					
FES 4585	A					
FES 4825		R				
FES 4935	R					

Assessment Types

- Exams
- Final papers

Fire and Emergency Services | Emergency Medical Services Management UF Online

Fire and emergency services degree program is designed to add the academic substance to prepare graduates to lead public or private sector fire, EMS and emergency management. Students earn a bachelor of science with the ability to specialize in fire, emergency medical services management or emergency management.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **School:** M.E. Rinker, Sr. School of Construction Management (p. 1333)
- **Degree:** Bachelor of Science in Fire and Emergency Services
- **Specializations:** Fire Management (p. 1352) | Emergency Medical Services Management (p. 1348) | Emergency Management (p. 1344)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Fire and Emergency Services Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The program specializations offer the student the ability to focus their degree in three different aspects of the emergency services industry. The program prepares the graduates for advancement in the ranks for the fire service, EMS and emergency management. In addition, graduates can find jobs at the local, state and national level of government, insurance companies, industry, and other areas. Students may apply to the university at the junior year after earning the Associate of Arts degree from a Florida state college or other regionally accredited academic institution. Freshman and sophomore coursework will be taken at a Florida state or public college or other regionally accredited academic institution.

After being accepted, students can pursue a Bachelor of Science without moving to Gainesville. Coursework for the junior and senior years will be offered via electronic distance learning, and UF faculty will teach and advise students in the program.

Students need access to a personal computer capable of connecting to the Internet.

Course requirements for the Degree

The B.S. degree is for students with different professional objectives. All students, regardless of specialization, are required to take FES 3015 Principles of Fire and Emergency Services Management as their opening course.

Each specialization has a specific set of required core courses required courses and electives of upper-division courses that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. The required courses are designed to be applicable across all specializations. The electives allow the students to select courses that meet their career interest. Upper-division courses are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Coursework

Fire Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3004	Political and Legal Foundations of Fire Protection	3
FES 3533	Community Risk Reduction for Emergency Services	3
FES 3782	Applications of Fire Research	3
FES 4003	Fire and Emergency Services Administration	3
FES 4045	Fire and Emergency Services Human Resource Management	3
FES 4585	Management of Fire Prevention Programs	3
FES 3815	Command and Control at Catastrophic Fire-Rescue Incidents	3
Total Credits		21

EMS Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3223	Foundations of EMS	3
FES 3233	EMS Safety and Risk Management	3
FES 3284	Management of Emergency Medical Services	3
FES 4244	Legal, Political, and Regulatory in EMS	3
FES 4274	Quality Management and Research in Emergency Services	3
FES 4234	EMS Community Risk Reduction	3
FES 4224	Management of Mass Casualty Incidents	3
Total Credits		21

Emergency Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3533	Community Risk Reduction for Emergency Services	3
FES 3822	Disaster Policy in Emergency Management	3
FES 4003	Fire and Emergency Services Administration	3
FES 4014	Foundations of Emergency Management	3
FES 4045	Fire and Emergency Services Human Resource Management	3
FES 4884	Introduction to Terrorism in Emergency Management	3
FES 3815	Command and Control at Catastrophic Fire-Rescue Incidents	3
Total Credits		21

All Specializations

Code	Title	Credits
Required Coursework for All Specializations		
FES 3153	FES Communication and Informational Technology	3
FES 3753	Fire and Emergency Services Financial Management	3
FES 4023	Fire and Emergency Services Ethical Practices and Leadership	3
FES 4055	Fire and Emergency Services Public Relations	3
FES 4825	Disaster Planning and Control	3
FES 3720	Strategic Planning for FES	3
FES 3015	Principles of Fire and Emergency Services Management	3
Electives		
Select six:		18
EMS 4315	Analytical Approaches to EMS	
FES 3285	Advanced Leadership Issues in Emergency Medical Services	
FES 3780	Analytical Approaches to Fire Protection	
FES 3803	Multi-Agency Incident Command	
FES 4034	Regulatory Issues in Fire and Emergency Services	
FES 4226	EMS Special Operations	
FES 4685	Fire Investigation and Analysis	
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FES 3263	Public Safety Educator	
FES 3227	Ambulance Operations	
FFP 4507	Management of Fire-Related Human Behavior	
Any course from other core courses		
Total Credits		39

Related Fire and Emergency Services Programs

- Emergency Management certificate (p. 1340)
- Emergency Medical Services Management certificate (p. 1340)
- Senior Fire Officer certificate (p. 1355)

Emergency Medical Services Management

For students seeking careers in managing an EMS system, working in a governing agency for EMS, or management and leadership positions for the hospital environment.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=430203&track=01) may be used for transfer students.

Model Semester Plan

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
FES 3015	Principles of Fire and Emergency Services Management	3
FES 3720	Strategic Planning for FES	3
	Credits	6
Semester Two		
FES 4224	Management of Mass Casualty Incidents	3
FES 4244	Legal, Political, and Regulatory in EMS	3
	Credits	6
Semester Three		
FES 3233	EMS Safety and Risk Management	3
FES 3284	Management of Emergency Medical Services	3
	Credits	6
Semester Four		
Elective		3
FES 4045	Fire and Emergency Services Human Resource Management	3
	Credits	6
Semester Five		
FES 3223	Foundations of EMS	3
Elective		3
	Credits	6
Semester Six		
FES 3153	FES Communication and Informational Technology	3
FES 4825	Disaster Planning and Control	3
	Credits	6
Semester Seven		
FES 4234	EMS Community Risk Reduction	3
Elective		3
FES 4274	Quality Management and Research in Emergency Services	3
	Credits	9
Semester Eight		
FES 3753	Fire and Emergency Services Financial Management	3
FES 4023	Fire and Emergency Services Ethical Practices and Leadership	3
Elective		3
	Credits	9
Semester Nine		
FES 4055	Fire and Emergency Services Public Relations	3
Elective		3
	Credits	6
	Total Credits	60

Academic Learning Compact

The School of Construction Management offers an accessible Bachelor of Science program for members of the fire and emergency services. This degree program is designed to build on students' experience in the fire service and to add the academic substance to prepare students to lead public or private sector fire and emergency service units.

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Students in the Major will Learn to

Student Learning Outcomes (SLOs)

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Critical Thinking

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5. Properly address issues of management, code regulations and the labor market in fire and emergency services.

Communication

6. Demonstrate strong verbal and written communication skills for leadership in fire and emergency services.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
FES 3015	I	I	I	I	I	I
FES 3033	I		I	I	I	I
FES 3153	I					
FES 3284	I, R	I, R	I, R	I, R	I, R	I, R
FES 3285	I, R		I, R	I, R	I, R	
FES 3753	I			I		I
FES 3755	I, R		I, R	I, R		I, R
FES 3803	I	I, R	I	I, R		I
FES 3815	R		R			I, R
FES 3823		A	I, R	I, R		I, R
FES 4003	R		I, R	R	R	A
FES 4023	R			A		A
FES 4034			A			
FES 4045					A	
FES 4055						R
FES 4224	A					
FES 4585	A					
FES 4825		R				
FES 4935	R					

Assessment Types

- Exams
- Final papers

Fire and Emergency Services | Fire Management UF Online

Fire and emergency services degree program is designed to add the academic substance to prepare graduates to lead public or private sector fire, EMS and emergency management. Students earn a bachelor of science with the ability to specialize in fire, emergency medical services management or emergency management.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **School:** M.E. Rinker, Sr. School of Construction Management (p. 1333)
- **Degree:** Bachelor of Science in Fire and Emergency Services
- **Specializations:** Fire Management (p. 1352) | Emergency Medical Services Management (p. 1348) | Emergency Management (p. 1344)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR
- **Additional Information**
- **Related Fire and Emergency Services Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The program specializations offer the student the ability to focus their degree in three different aspects of the emergency services industry. The program prepares the graduates for advancement in the ranks for the fire service, EMS and emergency management. In addition, graduates can find jobs at the local, state and national level of government, insurance companies, industry, and other areas. Students may apply to the university at the junior year after earning the Associate of Arts degree from a Florida state college or other regionally accredited academic institution. Freshman and sophomore coursework will be taken at a Florida state or public college or other regionally accredited academic institution.

After being accepted, students can pursue a Bachelor of Science without moving to Gainesville. Coursework for the junior and senior years will be offered via electronic distance learning, and UF faculty will teach and advise students in the program.

Students need access to a personal computer capable of connecting to the Internet.

Course requirements for the Degree

The B.S. degree is for students with different professional objectives. All students, regardless of specialization, are required to take FES 3015 Principles of Fire and Emergency Services Management as their opening course.

Each specialization has a specific set of required core courses required courses and electives of upper-division courses that represent important interdisciplinary topic areas. Core courses provide students with the knowledge and fundamental concepts essential to the specialization. The required courses are designed to be applicable across all specializations. The electives allow the students to select courses that meet their career interest. Upper-division courses are designed to build knowledge, competency and skills applicable to professional development.

Students should meet with an advisor as early as possible in their academic careers to choose their specialization and to plan their course of study.

Coursework

Fire Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3004	Political and Legal Foundations of Fire Protection	3
FES 3533	Community Risk Reduction for Emergency Services	3
FES 3782	Applications of Fire Research	3
FES 4003	Fire and Emergency Services Administration	3
FES 4045	Fire and Emergency Services Human Resource Management	3
FES 4585	Management of Fire Prevention Programs	3
FES 3815	Command and Control at Catastrophic Fire-Rescue Incidents	3
Total Credits		21

EMS Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3223	Foundations of EMS	3
FES 3233	EMS Safety and Risk Management	3
FES 3284	Management of Emergency Medical Services	3
FES 4244	Legal, Political, and Regulatory in EMS	3
FES 4274	Quality Management and Research in Emergency Services	3

FES 4234	EMS Community Risk Reduction	3
FES 4224	Management of Mass Casualty Incidents	3
Total Credits		21

Emergency Management

Code	Title	Credits
Core Coursework by Specialization		
FES 3533	Community Risk Reduction for Emergency Services	3
FES 3822	Disaster Policy in Emergency Management	3
FES 4003	Fire and Emergency Services Administration	3
FES 4014	Foundations of Emergency Management	3
FES 4045	Fire and Emergency Services Human Resource Management	3
FES 4884	Introduction to Terrorism in Emergency Management	3
FES 3815	Command and Control at Catastrophic Fire-Rescue Incidents	3
Total Credits		21

All Specializations

Code	Title	Credits
Required Coursework for All Specializations		
FES 3153	FES Communication and Informational Technology	3
FES 3753	Fire and Emergency Services Financial Management	3
FES 4023	Fire and Emergency Services Ethical Practices and Leadership	3
FES 4055	Fire and Emergency Services Public Relations	3
FES 4825	Disaster Planning and Control	3
FES 3720	Strategic Planning for FES	3
FES 3015	Principles of Fire and Emergency Services Management	3
Electives		
Select six:		18
EMS 4315	Analytical Approaches to EMS	
FES 3285	Advanced Leadership Issues in Emergency Medical Services	
FES 3780	Analytical Approaches to Fire Protection	
FES 3803	Multi-Agency Incident Command	
FES 4034	Regulatory Issues in Fire and Emergency Services	
FES 4226	EMS Special Operations	
FES 4685	Fire Investigation and Analysis	
FES 4804	Disaster Recovery and Mitigation	
FES 4820	Critical Incident Management for Emergency Managers	
FES 4835	Natural Disaster Phenomena in Florida	
FES 4905	Special Studies in Fire and Emergency Services	
FES 4935	Current Issues in Fire and Emergency Services	
FES 3263	Public Safety Educator	
FES 3227	Ambulance Operations	
FFP 4507	Management of Fire-Related Human Behavior	
Any course from other core courses		
Total Credits		39

Related Fire and Emergency Services Programs

- Emergency Management certificate (p. 1340)
- Emergency Medical Services Management certificate (p. 1340)
- Senior Fire Officer certificate (p. 1355)

Fire Management

For students who wish to work in the fire service or a fire related career. The program focuses on the area of fire science.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=430203&track=01%20class=) may be used for transfer students.

Model Semester Plan

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
FES 3015	Principles of Fire and Emergency Services Management	3
FES 3815	Command and Control at Catastrophic Fire-Rescue Incidents	3
	Credits	6
Semester Two		
FES 3720	Strategic Planning for FES	3
FES 4003	Fire and Emergency Services Administration	3
	Credits	6
Semester Three		
FES 4585	Management of Fire Prevention Programs	3
Elective		3
	Credits	6
Semester Four		
FES 3533	Community Risk Reduction for Emergency Services	3
FES 3004	Political and Legal Foundations of Fire Protection	3
	Credits	6
Semester Five		
FES 3782	Applications of Fire Research	3
Elective		3
	Credits	6
Semester Six		
FES 3153	FES Communication and Informational Technology	3
FES 4825	Disaster Planning and Control	3
	Credits	6
Semester Seven		
Electives		6
FES 4045	Fire and Emergency Services Human Resource Management	3
	Credits	9
Semester Eight		
FES 3753	Fire and Emergency Services Financial Management	3
FES 4023	Fire and Emergency Services Ethical Practices and Leadership	3
Elective		3
	Credits	9
Semester Nine		
FES 4055	Fire and Emergency Services Public Relations	3
Elective		3
	Credits	6
	Total Credits	60

Academic Learning Compact

The School of Construction Management offers an accessible Bachelor of Science program for members of the fire and emergency services. This degree program is designed to build on students' experience in the fire service and to add the academic substance to prepare students to lead public or private sector fire and emergency service units.

Before Graduating Students Must

- Demonstrate ability in management, labor issues and operations.
- Demonstrate ability in services related to medical, disaster and human resources.
- Demonstrate ability in public relations, ethical practices and leadership.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

Content

1. Identify and evaluate organizational problems associated with fire and emergency services.
2. Identify and demonstrate proper knowledge and use of comprehensive emergency management/command and control skills in major catastrophic incidents in fire and emergency services.
3. Illustrate knowledge and legal application of safety, health and environmental regulations at state and federal levels.

Critical Thinking

4. Demonstrate effective leadership behavior and skills in fire and emergency services.
5. Properly address issues of management, code regulations and the labor market in fire and emergency services.

Communication

6. Demonstrate strong verbal and written communication skills for leadership in fire and emergency services.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6
FES 3015	I	I	I	I	I	I
FES 3033	I		I	I	I	I
FES 3153	I					
FES 3284	I, R	I, R	I, R	I, R	I, R	I, R
FES 3285	I, R		I, R	I, R	I, R	
FES 3753	I			I		I
FES 3755	I, R		I, R	I, R		I, R
FES 3803	I	I, R	I	I, R		I
FES 3815	R		R			I, R
FES 3823		A	I, R	I, R		I, R
FES 4003	R		I, R	R	R	A
FES 4023	R			A		A
FES 4034			A			
FES 4045					A	
FES 4055						R
FES 4224	A					
FES 4585	A					
FES 4825		R				
FES 4935	R					

Assessment Types

- Exams
- Final papers

Senior Fire Officer Certificate

This certificate focuses on the management and communication skills necessary for working professionals in the fire and emergency services industry.

About this Program

- **College:** Design, Construction and Planning (p. 313)
- **School:** M.E. Rinker, Sr. School of Construction Management (p. 1333)
- **Credits:** 18 | Completed with minimum grades of C
- **Related Fire and Emergency Services Programs**

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

- Experience or certification in fire or emergency services
- Associate's (A.A./A.S.) degree

Required Courses

Code	Title	Credits
FES 3533	Community Risk Reduction for Emergency Services	3
FES 3720	Strategic Planning for FES	3
FES 3780	Analytical Approaches to Fire Protection	3
FES 4003	Fire and Emergency Services Administration	3
FES 4023	Fire and Emergency Services Ethical Practices and Leadership	3
FES 4045	Fire and Emergency Services Human Resource Management	3
Total Credits		18

Related Fire and Emergency Services Programs

- Bachelor of Science in Fire and Emergency Services (p. 1341)
- Bachelor of Science in Fire and Emergency Services, UF Online (p. 1341)

Natural Resources and Environment, School of

The School of Natural Resources and Environment provides interdisciplinary environmental degree programs and develops leaders with integrated thinking about natural and social systems. The school's undergraduate curriculum spans the range of human knowledge needed to solve complex environmental problems not amenable to narrowly based solutions.

Contact

103 Black Hall
P.O. Box 116455
University of Florida
Gainesville, FL 32611-6455
352.392.9230

Map (http://campusmap.ufl.edu/?loc=0724) More Info (http://snre.ufl.edu)

Academic Advising
103 Black Hall
352.846.1634

Established

1995

Degrees

Bachelor of Science in environmental science with specializations in environmental science and natural resource management, and a Bachelor of Arts in environmental science with specializations in environmental education, environmental policy and environmental policy and business.

Internships and Career Guidance

The dean's office maintains a list of potential sources of internships. The school grants course credit for internships (S-U grades, 1-3 credits, one per semester up to a maximum of three semesters) to enable maintenance of student status.

Programs

The school operates horizontally across UF's structure of academic disciplines, offering more than 200 courses taught in 50 departments. Faculty members from these departments are affiliated with the school.

Scholarships

General financial aid information is available from the Office of Student Financial Affairs. Students are eligible for scholarships awarded by the College of Agricultural and Life Sciences.
More Info (http://cals.ufl.edu/students/scholarships.php)

Helpful Links

- School Website (http://snre.ufl.edu)
- Combined Degrees (p. 1400)
- Computer Requirement (http://www.it.ufl.edu/policies/student-computing-requirements)

Academic Policies

Admission Requirements

Admission requirements for freshmen and students other than first-semester freshmen are found in the College of Agricultural and Life Sciences' Academic Policies.

School Requirements and Regulations

Students admitted to the school have full responsibility for registering for appropriate courses and fulfilling school and university requirements.

During their first term in the school, students must obtain academic advising and a plan of study worksheet from 103 Black Hall.

Students should review the relevant information in this catalog each term to track and plan the progress of their academic work. Failure to understand and follow these guidelines could cause unnecessary hardship, delay and expense.

Dean's List (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#deanslisttext)

Probation

Refer to the College of Agricultural and Life Sciences' Academic Policies.

Degree Requirements

Graduation requires satisfactory completion of 120 credits for the B.S. or B.A. degree and a cumulative 2.00 GPA in both the upper-division and the overall UF GPA.

Graduating with Honors (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

Programs

MAJORS

- Environmental Science

MINORS

- Environmental Science Minor

Combined Degree Opportunities

Eligible seniors in the School of Natural Resources and Environment can also participate in a combined degree that combines a B.A./B.S. in environmental science with a Master of Science in interdisciplinary ecology.
More Info (p. 1400)

Environmental Science

Environmental science is the study of people's role in our natural systems. Using an interdisciplinary approach, the Environmental Science program approaches complex environmental issues across multiple perspectives. Environmental Science students study ecology, soil and water sciences, and natural resource management as well as environmental ethics, economics, policy, and law.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **School:** Natural Resources and Environment (p. 1356)
- **Degrees:** Bachelor of Arts (p. 1360) | Bachelor of Science (p. 1367)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Environmental Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The environmental science degree approaches complex environmental issues with reliable knowledge and interdisciplinary perspectives, and provides the full range of knowledge relevant to complex environmental problems. This includes biological and physical sciences, ethics, economics, policy and law.

The degree prepares graduates for jobs in environmental consulting companies, government environmental offices or land and water management agencies, or non-government organizations. About one-third of environmental science students advance to graduate or professional degree programs. The combination of the school's broad undergraduate degree with a subsequent degree is highly marketable.

The school also offers a combined-degree program offering a bachelor's degree in environmental science and a Master of Science in interdisciplinary ecology.

Core Requirements for Both Degrees

Students take a core of courses, including a general course in environmental science and courses in ethics, ecology, chemistry, earth science, global science, hydrologic systems, and policy and natural resource management.

The core provides 31-32 credits of coursework in physical, biological and social sciences. The B.S. and B.A. tracks are similar. The B.S. includes one course in policy and one in organic chemistry; the B.A. includes two policy courses and no organic chemistry.

Beyond the core requirement, each student selects 21-27 additional credits from electives for the major. During the fourth year, all students take a capstone course where critical thinking skills are developed.

The freshmen and sophomore years lay a foundation of coursework for building later expertise. Students need to know the natural sciences of physics, chemistry and biology, with laboratory experience in each area. Study of microeconomics and macroeconomics are required to understand

the human economy. Introductory statistics empowers students to independently evaluate sets of numbers. College algebra and an introduction to calculus enable students to work with rates of change, the heart of ecological science.

Coursework in the core of the major provides a base of common knowledge and experience in subjects essential to environmental science. Then students diverge into electives chosen according to individual interest. Senior-year students return to a common course that develops critical-thinking skills by confronting conflicts of ecological and economic paradigms, synthesizing across physical, biological and social systems, and engaging diverse knowledge and views to help resolve key environmental problems.

The preprofessional courses for the Bachelor of Science prepare students for a more science-oriented major. The requirements for the Bachelor of Arts include less chemistry, physics and mathematics, in preparation for a major that is more focused on the sociopolitical aspects of environmental science.

Code	Title	Credits
Required Foundation Course		
EVS 3000 & 3000L	Environmental Science and Environmental Science Laboratory	4
Environmental Ethics		
Select one:		3
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences)	
PHM 3032	Ethics and Ecology (Gen Ed Humanities)	
POT 3503	Environmental Ethics and Politics	
REL 2104	Environmental Ethics (Gen Ed Humanities)	
REL 2166	Religion and the Environmental Crisis	
REL 3492	Religion Ethics and Nature (Gen Ed Humanities)	
Ecology		
Select one:		3-4
ALS 3153	Agricultural Ecology	
FOR 3153C	Forest Ecology (Gen Ed Biological Sciences)	
PCB 3601C	Plant Ecology	
PCB 4043C	General Ecology (Gen Ed Biological Sciences)	
Organic Chemistry		
Select one for the B.S.; B.A. select none:		0-4
BCH 3023	Elementary Organic and Biological Chemistry	
CHM 2200	Fundamentals of Organic Chemistry	
EES 4203	Phase Partitioning in the Environment	
CHM 2210	Organic Chemistry 1	
Earth and Soil Science		
Select one:		3-4
GEO 2200 & 2200L	Physical Geography and Physical Geography Laboratory (Gen Ed Physical Sciences)	
GLY 2010C	Physical Geology (Gen Ed Physical Sciences, B.S. only)	
GLY 2030C	Environmental and Engineering Geology (Gen Ed Physical Sciences)	
GLY 2100C	Historical Geology (Gen Ed Physical Sciences; B.S. only)	
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Physical Sciences)	
SWS 4231C	Soil, Water and Land Use (Gen Ed Physical Sciences) [1]	
Global Systems		
Select one:		3
GEO 2242	Extreme Weather	
GEO 3250	Climatology (Gen Ed Physical Sciences)	
GLY 3074	Oceans and Global Climate Change	
OCE 1001	Introduction to Oceanography	
Hydrologic Systems		
Select one:		3-4
AOM 4643	Environmental Hydrology: Principles and Issues	
FNR 4343C	Forest Water Resources	
GEO 3280	Principles of Geographic Hydrology (Gen Ed Physical Sciences)	
GLY 3882C	Hydrogeology and Human Affairs	
SWS 4244	Wetlands	
SWS 4245	Water Resource Sustainability	
Environmental Policy		
Select one for the B.S.; B.A. select two:		3-6

AEB 4123	Agricultural and Natural Resource Law	
AEB 4283	International Development Policy (Gen Ed Social and Behavioral Sciences)	
FNR 4660	Natural Resource Policy and Economics	
INR 3034	Politics of the World Economy	
INR 3502	International Institutions (Gen Ed Social and Behavioral Sciences and International)	
Natural Resource Management		
Select one:		3
AGG 3501	Environment, Food and Society	
ALS 3133	Agricultural and Environmental Quality	
EES 3008	Energy and Environment (Gen Ed Physical Sciences; B.A. only)	
FAS 4305C	Introduction to Fishery Science	
FOR 3004	Forests, Conservation and People	
FOR 3200C	Foundations of Natural Resources and Conservation	
FOR 4621	Forest Economics and Management (Gen Ed Physical Sciences)	
LEI 3546	Park Management	
PLS 3004C	Principles of Plant Science	
SWS 4231C	Soil, Water and Land Use (Gen Ed Physical Sciences) [1]	
SWS 4932	Special Topics in Soil and Water Science (Forest and Soil Ecosystem Services)	
Required Capstone Course		
EVS 4021	Critical Thinking in Environmental Science	3
Total Credits		28-38

[1] If taken from one group, this course does not satisfy the requirement for a course from the other group.

Preprofessional Requirements for Both Degrees

Each student must fulfill preprofessional requirements that differ slightly for the B.S. and B.A. degrees. These consist of courses in chemistry, physics, biology, calculus, statistics and economics, totaling 39-46 (typically 43) credits for the B.S. and 31-39 (typically 34) credits for the B.A.

In addition to the preprofessional requirements, all students are responsible for completing the university's general education and the writing requirement.

Certain preprofessional requirements simultaneously satisfy 18-21 credits (depending on courses selected) of the general education mathematics, physics, biology, and social and behavioral science. Remaining general education requirements include 15-18 credits (depending on preprofessional courses taken) in composition, humanities and social and behavioral sciences.

The 12 credits of writing requirements include 3-12 credits taken for general education and preprofessional requirements, depending on selections. The six credits of math requirements are satisfied by preprofessional requirements.

For efficiency, freshmen should seek to maximize overlap of preprofessional requirements with general education and the writing requirement, as outlined below:

- Science preprofessional requirements satisfy up to 12 credits of physical and biological sciences (the basic nine-credit requirement plus the variable three credits from a category). Students should allocate the variable three credits to physical and biological sciences to reduce the humanities requirement from nine to six credits.
- Economics preprofessional requirements satisfy up to eight of the nine-credit social and behavioral sciences requirement (eight if satisfied with ECO 2013 and ECO 2023; four if satisfied with AEB 3103).
- Policy preprofessional requirement (POS 2041) for B.A. students satisfies the remaining social and behavioral sciences requirement. B.S. students can satisfy the remaining social and behavioral sciences requirement with certain core courses, under ethics (AEB 4126) and policy.
- Satisfying the preceding requirements leaves 18 credits: six for humanities, three for composition and nine for writing.
- Students should take humanities, composition and writing courses that also satisfy the three-credit international studies requirement, such as LIT 2110 or LIT 2120, and the three-credit diversity requirement with a REL 2388 or WST 2611 overlap.

Related Environmental Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Environmental Science minor (p. 1376)

Academic Learning Compact

Environmental science is the science of humanity's role in natural systems, the basis of our economy. This program accesses courses university-wide and provides numerous opportunities for international study. Students will acquire reliable knowledge and interdisciplinary perspectives of

complex environmental issues, gaining the full range of knowledge relevant to a professional understanding of complex environmental problems in the biological and physical sciences, ethics, economics, policy and law.

Before Graduating Students Must

- Complete at least one course in each of the foundation areas.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Acquire knowledge and demonstrate understanding of basic terminology, concepts, methodologies and theories in the physical and biological sciences that describe environmental systems.
2. Acquire knowledge of essential concepts in the social sciences that describe human activity in the environment.

Critical Thinking

3. Apply the scientific method to develop reasoned solutions to environmental problems.

Communication

4. Communicate knowledge, ideas and reasoning clearly, effectively and objectively in both written and oral forms.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EVS 3000 and EVS 3000L	I	I	I	I
EVS 4021	A	A	A	A
Earth and Soil Sciences	R			
Ecology	R	R	R	
Environmental Ethics		R	R	R
Environmental Policy		R	R	R
Global Systems	R			
Hydrologic Systems	R			
Human Dimensions		R	R	R
Natural Resource Management	R	R	R	

Assessment Types

- Oral presentation or written essay

Environmental Science | BA

Environmental science is the study of people's role in our natural systems. Using an interdisciplinary approach, the Environmental Science program approaches complex environmental issues across multiple perspectives. Environmental Science students study ecology, soil and water sciences, and natural resource management as well as environmental ethics, economics, policy, and law.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **School:** Natural Resources and Environment (p. 1356)
- **Degrees:** Bachelor of Arts (p. 1360) | Bachelor of Science (p. 1367)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Environmental Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The environmental science degree approaches complex environmental issues with reliable knowledge and interdisciplinary perspectives, and provides the full range of knowledge relevant to complex environmental problems. This includes biological and physical sciences, ethics, economics, policy and law.

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The school also offers a combined-degree program offering a bachelor's degree in environmental science and a Master of Science in interdisciplinary ecology.

Core Requirements for Both Degrees

Students take a core of courses, including a general course in environmental science and courses in ethics, ecology, chemistry, earth science, global science, hydrologic systems, and policy and natural resource management.

The core provides 31-32 credits of coursework in physical, biological and social sciences. The B.S. and B.A. tracks are similar. The B.S. includes one course in policy and one in organic chemistry; the B.A. includes two policy courses and no organic chemistry.

Beyond the core requirement, each student selects 21-27 additional credits from electives for the major. During the fourth year, all students take a capstone course where critical thinking skills are developed.

The freshmen and sophomore years lay a foundation of coursework for building later expertise. Students need to know the natural sciences of physics, chemistry and biology, with laboratory experience in each area. Study of microeconomics and macroeconomics are required to understand the human economy. Introductory statistics empowers students to independently evaluate sets of numbers. College algebra and an introduction to calculus enable students to work with rates of change, the heart of ecological science.

Coursework in the core of the major provides a base of common knowledge and experience in subjects essential to environmental science. Then students diverge into electives chosen according to individual interest. Senior-year students return to a common course that develops critical-thinking skills by confronting conflicts of ecological and economic paradigms, synthesizing across physical, biological and social systems, and engaging diverse knowledge and views to help resolve key environmental problems.

The preprofessional courses for the Bachelor of Science prepare students for a more science-oriented major. The requirements for the Bachelor of Arts include less chemistry, physics and mathematics, in preparation for a major that is more focused on the sociopolitical aspects of environmental science.

Code	Title	Credits
Required Foundation Course		
EVS 3000 & 3000L	Environmental Science and Environmental Science Laboratory	4
Environmental Ethics		
Select one:		3
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences)	
PHM 3032	Ethics and Ecology (Gen Ed Humanities)	
POT 3503	Environmental Ethics and Politics	
REL 2104	Environmental Ethics (Gen Ed Humanities)	
REL 2166	Religion and the Environmental Crisis	
REL 3492	Religion Ethics and Nature (Gen Ed Humanities)	
Ecology		
Select one:		3-4
ALS 3153	Agricultural Ecology	
FOR 3153C	Forest Ecology (Gen Ed Biological Sciences)	
PCB 3601C	Plant Ecology	
PCB 4043C	General Ecology (Gen Ed Biological Sciences)	
Organic Chemistry		
Select one for the B.S.; B.A. select none:		0-4
BCH 3023	Elementary Organic and Biological Chemistry	
CHM 2200	Fundamentals of Organic Chemistry	
EES 4203	Phase Partitioning in the Environment	
CHM 2210	Organic Chemistry 1	
Earth and Soil Science		
Select one:		3-4

GEO 2200 & 2200L	Physical Geography and Physical Geography Laboratory (Gen Ed Physical Sciences)	
GLY 2010C	Physical Geology (Gen Ed Physical Sciences, B.S. only)	
GLY 2030C	Environmental and Engineering Geology (Gen Ed Physical Sciences)	
GLY 2100C	Historical Geology (Gen Ed Physical Sciences; B.S. only)	
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Physical Sciences)	
SWS 4231C	Soil, Water and Land Use (Gen Ed Physical Sciences) [1]	
Global Systems		
Select one:		3
GEO 2242	Extreme Weather	
GEO 3250	Climatology (Gen Ed Physical Sciences)	
GLY 3074	Oceans and Global Climate Change	
OCE 1001	Introduction to Oceanography	
Hydrologic Systems		
Select one:		3-4
AOM 4643	Environmental Hydrology: Principles and Issues	
FNR 4343C	Forest Water Resources	
GEO 3280	Principles of Geographic Hydrology (Gen Ed Physical Sciences)	
GLY 3882C	Hydrogeology and Human Affairs	
SWS 4244	Wetlands	
SWS 4245	Water Resource Sustainability	
Environmental Policy		
Select one for the B.S.; B.A. select two:		3-6
AEB 4123	Agricultural and Natural Resource Law	
AEB 4283	International Development Policy (Gen Ed Social and Behavioral Sciences)	
FNR 4660	Natural Resource Policy and Economics	
INR 3034	Politics of the World Economy	
INR 3502	International Institutions (Gen Ed Social and Behavioral Sciences and International)	
Natural Resource Management		
Select one:		3
AGG 3501	Environment, Food and Society	
ALS 3133	Agricultural and Environmental Quality	
EES 3008	Energy and Environment (Gen Ed Physical Sciences; B.A. only)	
FAS 4305C	Introduction to Fishery Science	
FOR 3004	Forests, Conservation and People	
FOR 3200C	Foundations of Natural Resources and Conservation	
FOR 4621	Forest Economics and Management (Gen Ed Physical Sciences)	
LEI 3546	Park Management	
PLS 3004C	Principles of Plant Science	
SWS 4231C	Soil, Water and Land Use (Gen Ed Physical Sciences) [1]	
SWS 4932	Special Topics in Soil and Water Science (Forest and Soil Ecosystem Services)	
Required Capstone Course		
EVS 4021	Critical Thinking in Environmental Science	3
Total Credits		28-38

[1] If taken from one group, this course does not satisfy the requirement for a course from the other group.

Preprofessional Requirements for Both Degrees

Each student must fulfill preprofessional requirements that differ slightly for the B.S. and B.A. degrees. These consist of courses in chemistry, physics, biology, calculus, statistics and economics, totaling 39-46 (typically 43) credits for the B.S. and 31-39 (typically 34) credits for the B.A.

In addition to the preprofessional requirements, all students are responsible for completing the university's general education and the writing requirement.

Certain preprofessional requirements simultaneously satisfy 18-21 credits (depending on courses selected) of the general education mathematics, physics, biology, and social and behavioral science. Remaining general education requirements include 15-18 credits (depending on preprofessional courses taken) in composition, humanities and social and behavioral sciences.

The 12 credits of writing requirements include 3-12 credits taken for general education and preprofessional requirements, depending on selections. The six credits of math requirements are satisfied by preprofessional requirements.

For efficiency, freshmen should seek to maximize overlap of preprofessional requirements with general education and the writing requirement, as outlined below:

- Science preprofessional requirements satisfy up to 12 credits of physical and biological sciences (the basic nine-credit requirement plus the variable three credits from a category). Students should allocate the variable three credits to physical and biological sciences to reduce the humanities requirement from nine to six credits.
- Economics preprofessional requirements satisfy up to eight of the nine-credit social and behavioral sciences requirement (eight if satisfied with ECO 2013 and ECO 2023; four if satisfied with AEB 3103).
- Policy preprofessional requirement (POS 2041) for B.A. students satisfies the remaining social and behavioral sciences requirement. B.S. students can satisfy the remaining social and behavioral sciences requirement with certain core courses, under ethics (AEB 4126) and policy.
- Satisfying the preceding requirements leaves 18 credits: six for humanities, three for composition and nine for writing.
- Students should take humanities, composition and writing courses that also satisfy the three-credit international studies requirement, such as LIT 2110 or LIT 2120, and the three-credit diversity requirement with a REL 2388 or WST 2611 overlap.

Related Environmental Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Environmental Science minor (p. 1376)

Bachelor of Arts

The Bachelor of Arts degree in environmental science focuses on the social sciences that connect the natural sciences and engineering to society.

Electives in the areas of policy, law, public administration and resource economics make this the preferred specialization for students interested in advancing to law school or to the policy aspects of environmental consulting and public agency work.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=030104&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 9 critical-tracking courses, excluding labs: BSC 2005/BSC 2005L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, ECO 2013, ECO 2023, MAC 1147, PHY 2020 or PHY 2004, POS 2041, STA 2023
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 9 critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
BSC 2005 & 2005L	Biological Sciences and Laboratory in Biological Sciences (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 1147	Precalculus Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	4
Gen Ed Composition (according to placement)		3
	Credits	14
Semester Two		
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
State Core Gen Ed Composition (p. 23); Writing Requirement		3
Elective		3
State Core Gen Ed Humanities with Diversity or International (p. 23)		3
	Credits	16
Semester Three		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences) [2]	4
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
Select one:		3
PHY 2020	Introduction to Principles of Physics (**Critical Tracking**) [3]	
PHY 2004	Applied Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences) [3]	
Gen Ed International or Diversity		3
	Credits	14
Semester Four		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
EVS 3000 & 3000L	Environmental Science and Environmental Science Laboratory	4
POS 2041	American Federal Government (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	3
Elective		3-4
	Credits	14-15
Semester Five		
Earth and soil science elective [4]		3-4
Ecology elective [4]		3-4
Environmental ethics elective [4]		3
Environmental policy elective [4]		3-4
Elective		3
	Credits	15-18
Semester Six		
Environmental law elective [4]		3-4
Environmental policy elective [4]		3-4
Global systems elective [4]		3
Hydrologic systems elective [4]		3-4
Natural resource management elective [4]		3
	Credits	15-18
Semester Seven		
Environmental policy/public administration elective [4]		3-4
Environmental policy/public administration elective [4]		3
Resource economics elective [4]		3-4

Electives for the major [4]		6
	Credits	15-17
Semester Eight		
EVS 4021	Critical Thinking in Environmental Science	3
Electives		5
Electives for the major [4]		9
	Credits	17
	Total Credits	120

1 If students take MAC 1140 and MAC 1114 in place of MAC 1147, the extra credits count toward the degree as electives.

2 If CHM 1025 was taken in preparation for CHM 2045, the extra credits count toward the degree.

3 These courses may be used as substitutes:
- BSC 2010/BSC 2010L and BSC 2011/BSC 2011L for BSC 2005 and BSC 2005L;
- PHY 2053 for PHY 2020 or PHY 2004.

4 From master list.

Approved Electives | 9 courses | 27 credits

Students can substitute appropriate graduate courses for electives, with approval of the school and permission of the instructor. To substitute a 5000-level course or higher, the student must have senior standing and a minimum junior/senior-level GPA of 3.0.

Code	Title	Credits
Environmental Law		
Select one:		
AEB 4085	Agricultural Risk Management and the Law	3
AEB 4123	Agricultural and Natural Resource Law	3
BUL 4310	The Legal Environment of Business	4
Environmental Policy/Public Administration		
Select two:		
AEB 4283	International Development Policy [1]	3
PAD 3003	Introduction to Public Administration	3
POS 4931	Special Topics (Environmental Politics in the Global South)	3
PUP 4224	Florida Environmental Politics	3
Resource Economics		
AEB 3450	Introduction to Natural Resource and Environmental Economics [1]	3
ECP 3302	Environmental Economics and Resource Policy	4
Other Electives		
Select five:		
ACG 2021	Introduction to Financial Accounting	4
AEB 3133	Principles of Agribusiness Management	3
AEB 3300	Agricultural and Food Marketing	3
AEB 4085	Agricultural Risk Management and the Law	3
AEB 4123	Agricultural and Natural Resource Law	3
AEB 4242	International Trade Policy in Agriculture	3
AEB 4283	International Development Policy (Gen Ed Social and Behavioral Sciences) [1]	3
AEB 4343	International Agribusiness Marketing	3
AEC 3030C	Effective Oral Communication	3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
AEC 3073	Intercultural Communication	3
AEC 3414	Leadership Development	3
AEC 4052	Communication Campaign Strategies in Agricultural and Life Sciences	3
AEC 4500	Program Development and Evaluation	3
ALS 3133	Agricultural and Environmental Quality	3
AMH 4930	History Research Seminar: US (Florida Environmental History)	3
ANT 3141	Development of World Civilization	3
ANT 3514C	Introduction to Biological Anthropology	4
ANT 4403	Environment and Cultural Behavior	3
BOT 2011C	Plant Diversity	4
BOT 3151C	Local Flora of North Florida	3
DEP 3053	Developmental Psychology	3
ECO 3101	Intermediate Microeconomics	4

ECO 3203	Intermediate Macroeconomics	4
ECO 3532	Public Choice	4
EDF 3110	Human Growth and Development	3
EDF 4430	Measurement and Evaluation in Education	3
EES 4316	Industrial Ecology	3
ENC 3250	Professional Communication	3
ENC 3310	Advanced Exposition	3
ENC 3312	Advanced Argumentative Writing	3
ENY 3030C	Insect Field Biology	3
EVR 3323	Introduction to Ecosystem Restoration	4
EVS 4949	Environmental Science Internship	1-3
FIN 3403	Business Finance	4
FNR 3131C	Dendrology/Forest Plants	3
FNR 4070C	Environmental Education Program Development	3
FNR 4343C	Forest Water Resources	3
FNR 4623C	Integrated Natural Resource Management	3
FNR 4660	Natural Resource Policy and Economics	3
FOR 3202	Society and Natural Resources	3
FOR 3214	Fire Ecology and Management	2
FOR 3214L	Fire Ecology and Management Laboratory	1
FOR 4664	Sustainable Ecotourism Development	3
FOS 4731	Government Regulations and the Food Industry	2
FYC 3401	Introduction to Social and Economic Perspectives on the Community	3
GEO 3315	Geography of Crop Plants	3
GEO 3352	The Human Footprint on Landscape	3
GEO 3427	Plants, Health and Spirituality	3
GEO 3502	Economic Geography	3
GIS 3043	Foundations of Geographic Information Systems	4
INR 4035	Rich and Poor Nations in the International System	3
INR 4350	International Environmental Relations	3
JOU 3101	Reporting	3
JOU 4308	Magazine and Feature Writing	3
LEI 3120	Introduction to Outdoor Recreation and Parks	3
LEI 4321	Ecotourism	3
MAN 3025	Principles of Management	4
MMC 2100	Writing for Mass Communication	3
POS 2112	American State and Local Government	3
POS 4674	Political Change and Legal Development	3
POT 3503	Environmental Ethics and Politics	3
SWS 4245	Water Resource Sustainability [1]	3
SWS 4550	Soils, Water and Public Health	3
SWS 4932	Special Topics in Soil and Water Science (Forest and Soil Ecosystem Services)	3
SYA 4930	Special Study (Social Institutions and Environment)	3
SYD 3410	Urban Sociology	3
SYD 4020	Population	3
SYD 4021	U.S. Population Issues	3
SYO 4530	Social Inequality	3
URP 4000	Preview of Urban and Regional Planning	3
URP 4273	Survey of Planning Information Systems	3
WIS 4523	Human Dimensions of Natural Resource Conservation	3
ZOO 4205C	Invertebrate Biodiversity	4
ZOO 4307C	Vertebrate Biodiversity	4
ZOO 4403C	Marine Biology (counts as one or two courses)	4
ZOO 4472C	Avian Biology	4

[1] If this course was taken to fulfill the core requirement, it cannot fulfill the elective requirement. Students must select a substitution from the electives for the major.

Academic Learning Compact

Environmental science is the science of humanity's role in natural systems, the basis of our economy. This program accesses courses university-wide and provides numerous opportunities for international study. Students will acquire reliable knowledge and interdisciplinary perspectives of complex environmental issues, gaining the full range of knowledge relevant to a professional understanding of complex environmental problems in the biological and physical sciences, ethics, economics, policy and law.

Before Graduating Students Must

- Complete at least one course in each of the foundation areas.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Acquire knowledge and demonstrate understanding of basic terminology, concepts, methodologies and theories in the physical and biological sciences that describe environmental systems.
2. Acquire knowledge of essential concepts in the social sciences that describe human activity in the environment.

Critical Thinking

3. Apply the scientific method to develop reasoned solutions to environmental problems.

Communication

4. Communicate knowledge, ideas and reasoning clearly, effectively and objectively in both written and oral forms.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EVS 3000 and EVS 3000L	I	I	I	I
EVS 4021	A	A	A	A
Earth and Soil Sciences	R			
Ecology	R	R	R	
Environmental Ethics		R	R	R
Environmental Policy		R	R	R
Global Systems	R			
Hydrologic Systems	R			
Human Dimensions		R	R	R
Natural Resource Management	R	R	R	

Assessment Types

- Oral presentation or written essay

Environmental Science | BS

Environmental science is the study of people's role in our natural systems. Using an interdisciplinary approach, the Environmental Science program approaches complex environmental issues across multiple perspectives. Environmental Science students study ecology, soil and water sciences, and natural resource management as well as environmental ethics, economics, policy, and law.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **School:** Natural Resources and Environment (p. 1356)
- **Degrees:** Bachelor of Arts (p. 1360) | Bachelor of Science (p. 1367)
- **Credits for Degree:** 120
- **Additional Information**
- **Related Environmental Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The environmental science degree approaches complex environmental issues with reliable knowledge and interdisciplinary perspectives, and provides the full range of knowledge relevant to complex environmental problems. This includes biological and physical sciences, ethics, economics, policy and law.

The degree prepares graduates for jobs in environmental consulting companies, government environmental offices or land and water management agencies, or non-government organizations. About one-third of environmental science students advance to graduate or professional degree programs. The combination of the school's broad undergraduate degree with a subsequent degree is highly marketable.

The school also offers a combined-degree program offering a bachelor's degree in environmental science and a Master of Science in interdisciplinary ecology.

Core Requirements for Both Degrees

Students take a core of courses, including a general course in environmental science and courses in ethics, ecology, chemistry, earth science, global science, hydrologic systems, and policy and natural resource management.

The core provides 31-32 credits of coursework in physical, biological and social sciences. The B.S. and B.A. tracks are similar. The B.S. includes one course in policy and one in organic chemistry; the B.A. includes two policy courses and no organic chemistry.

Beyond the core requirement, each student selects 21-27 additional credits from electives for the major. During the fourth year, all students take a capstone course where critical thinking skills are developed.

The freshmen and sophomore years lay a foundation of coursework for building later expertise. Students need to know the natural sciences of physics, chemistry and biology, with laboratory experience in each area. Study of microeconomics and macroeconomics are required to understand the human economy. Introductory statistics empowers students to independently evaluate sets of numbers. College algebra and an introduction to calculus enable students to work with rates of change, the heart of ecological science.

Coursework in the core of the major provides a base of common knowledge and experience in subjects essential to environmental science. Then students diverge into electives chosen according to individual interest. Senior-year students return to a common course that develops critical-thinking skills by confronting conflicts of ecological and economic paradigms, synthesizing across physical, biological and social systems, and engaging diverse knowledge and views to help resolve key environmental problems.

The preprofessional courses for the Bachelor of Science prepare students for a more science-oriented major. The requirements for the Bachelor of Arts include less chemistry, physics and mathematics, in preparation for a major that is more focused on the sociopolitical aspects of environmental science.

Code	Title	Credits
Required Foundation Course		
EVS 3000 & 3000L	Environmental Science and Environmental Science Laboratory	4
Environmental Ethics		
Select one:		3
AEB 4126	Agricultural and Natural Resource Ethics (Gen Ed Humanities or Social and Behavioral Sciences)	
PHM 3032	Ethics and Ecology (Gen Ed Humanities)	
POT 3503	Environmental Ethics and Politics	
REL 2104	Environmental Ethics (Gen Ed Humanities)	
REL 2166	Religion and the Environmental Crisis	
REL 3492	Religion Ethics and Nature (Gen Ed Humanities)	
Ecology		
Select one:		3-4
ALS 3153	Agricultural Ecology	
FOR 3153C	Forest Ecology (Gen Ed Biological Sciences)	
PCB 3601C	Plant Ecology	
PCB 4043C	General Ecology (Gen Ed Biological Sciences)	
Organic Chemistry		
Select one for the B.S.; B.A. select none:		0-4
BCH 3023	Elementary Organic and Biological Chemistry	
CHM 2200	Fundamentals of Organic Chemistry	
EES 4203	Phase Partitioning in the Environment	
CHM 2210	Organic Chemistry 1	
Earth and Soil Science		
Select one:		3-4

GEO 2200	Physical Geography	
& 2200L	and Physical Geography Laboratory (Gen Ed Physical Sciences)	
GLY 2010C	Physical Geology (Gen Ed Physical Sciences, B.S. only)	
GLY 2030C	Environmental and Engineering Geology (Gen Ed Physical Sciences)	
GLY 2100C	Historical Geology (Gen Ed Physical Sciences; B.S. only)	
SWS 3022	Introduction to Soils in the Environment	
& 3022L	and Introduction to Soils in the Environment Laboratory (Gen Ed Physical Sciences)	
SWS 4231C	Soil, Water and Land Use (Gen Ed Physical Sciences) [1]	
Global Systems		
Select one:		3
GEO 2242	Extreme Weather	
GEO 3250	Climatology (Gen Ed Physical Sciences)	
GLY 3074	Oceans and Global Climate Change	
OCE 1001	Introduction to Oceanography	
Hydrologic Systems		
Select one:		3-4
AOM 4643	Environmental Hydrology: Principles and Issues	
FNR 4343C	Forest Water Resources	
GEO 3280	Principles of Geographic Hydrology (Gen Ed Physical Sciences)	
GLY 3882C	Hydrogeology and Human Affairs	
SWS 4244	Wetlands	
SWS 4245	Water Resource Sustainability	
Environmental Policy		
Select one for the B.S.; B.A. select two:		3-6
AEB 4123	Agricultural and Natural Resource Law	
AEB 4283	International Development Policy (Gen Ed Social and Behavioral Sciences)	
FNR 4660	Natural Resource Policy and Economics	
INR 3034	Politics of the World Economy	
INR 3502	International Institutions (Gen Ed Social and Behavioral Sciences and International)	
Natural Resource Management		
Select one:		3
AGG 3501	Environment, Food and Society	
ALS 3133	Agricultural and Environmental Quality	
EES 3008	Energy and Environment (Gen Ed Physical Sciences; B.A. only)	
FAS 4305C	Introduction to Fishery Science	
FOR 3004	Forests, Conservation and People	
FOR 3200C	Foundations of Natural Resources and Conservation	
FOR 4621	Forest Economics and Management (Gen Ed Physical Sciences)	
LEI 3546	Park Management	
PLS 3004C	Principles of Plant Science	
SWS 4231C	Soil, Water and Land Use (Gen Ed Physical Sciences) [1]	
SWS 4932	Special Topics in Soil and Water Science (Forest and Soil Ecosystem Services)	
Required Capstone Course		
EVS 4021	Critical Thinking in Environmental Science	3
Total Credits		28-38

[1] If taken from one group, this course does not satisfy the requirement for a course from the other group.

Preprofessional Requirements for Both Degrees

Each student must fulfill preprofessional requirements that differ slightly for the B.S. and B.A. degrees. These consist of courses in chemistry, physics, biology, calculus, statistics and economics, totaling 39-46 (typically 43) credits for the B.S. and 31-39 (typically 34) credits for the B.A.

In addition to the preprofessional requirements, all students are responsible for completing the university's general education and the writing requirement.

Certain preprofessional requirements simultaneously satisfy 18-21 credits (depending on courses selected) of the general education mathematics, physics, biology, and social and behavioral science. Remaining general education requirements include 15-18 credits (depending on preprofessional courses taken) in composition, humanities and social and behavioral sciences.

The 12 credits of writing requirements include 3-12 credits taken for general education and preprofessional requirements, depending on selections. The six credits of math requirements are satisfied by preprofessional requirements.

For efficiency, freshmen should seek to maximize overlap of preprofessional requirements with general education and the writing requirement, as outlined below:

- Science preprofessional requirements satisfy up to 12 credits of physical and biological sciences (the basic nine-credit requirement plus the variable three credits from a category). Students should allocate the variable three credits to physical and biological sciences to reduce the humanities requirement from nine to six credits.
- Economics preprofessional requirements satisfy up to eight of the nine-credit social and behavioral sciences requirement (eight if satisfied with ECO 2013 and ECO 2023; four if satisfied with AEB 3103).
- Policy preprofessional requirement (POS 2041) for B.A. students satisfies the remaining social and behavioral sciences requirement. B.S. students can satisfy the remaining social and behavioral sciences requirement with certain core courses, under ethics (AEB 4126) and policy.
- Satisfying the preceding requirements leaves 18 credits: six for humanities, three for composition and nine for writing.
- Students should take humanities, composition and writing courses that also satisfy the three-credit international studies requirement, such as LIT 2110 or LIT 2120, and the three-credit diversity requirement with a REL 2388 or WST 2611 overlap.

Related Environmental Science Programs

- Combined Degree (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- Environmental Science minor (p. 1376)

Bachelor of Science

The Bachelor of Science degree in environmental science emphasizes the applied sciences and the basic sciences from which they derive. The track is designed to prepare for employment or for graduate or professional school.

Elective courses required beyond the core requirements are distributed among four categories: physical sciences, biological sciences, human dimensions and additional skills and concepts. For advice on choice of electives, consult the advisor in 103 Black Hall. Students pursuing the Bachelor of Science who want more environmental policy electives can substitute them for the courses in human dimensions.

Courses taken to fulfill the core requirements cannot fulfill elective requirements. Students can substitute graduate courses for electives, with approval of the school and permission of the instructor. To substitute a 5000-level course or higher, the student must have senior standing and a junior/senior-level GPA of at least 3.0.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (http://www.flvc.org/cpp/displayRecord.jsp?cip=030104&track=01) may be used for transfer students.

Semester 1

- Complete 2 of 11 critical-tracking courses, excluding labs: BSC 2010/BSC 2010L, BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, ECO 2013 and ECO 2023 or AEB 3103, MAC 2311, MAC 2312, PHY 2004/PHY 2004L, PHY 2005/PHY 2005L and STA 2023
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 3 additional courses of the 11 critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 3 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 3 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 11 critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry 1 Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences) [1]	4
IDS 1161	What is the Good Life (Gen Ed Humanities)	3
MAC 2311	Analytic Geometry and Calculus 1 (**Critical Tracking**; State Core Gen Ed Mathematics) [2]	4
Gen Ed Composition (according to placement)		3
	Credits	14
Semester Two		
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory (**Critical Tracking**; Gen Ed Physical Sciences)	4
MAC 2312	Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics) [2]	4
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics) [3]	3
Electives		5
	Credits	16
Semester Three		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
PHY 2004 & 2004L	Applied Physics 1 and Laboratory for Applied Physics 1 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences) [3]	4
State Core Gen Ed Humanities with Diversity or International (p. 23)		3
	Credits	15
Semester Four		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences)	4
Select one:		4
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	
Elective (**Critical Tracking**)		
PHY 2005 & 2005L	Applied Physics 2 and Laboratory for Applied Physics 2 (**Critical Tracking**; Gen Ed Biological Sciences and Physical Sciences) [3]	4
State Core Gen Ed Composition (p. 23)		3
	Credits	15
Semester Five		
EVS 3000 & 3000L	Environmental Science and Environmental Science Laboratory	4
Ecology elective [4]		3-4
Environmental ethics elective [4]		3
Environmental policy elective [4]		3-4
Organic chemistry elective [4]		3-4
	Credits	16-19
Semester Six		
Earth and soil science elective [4]		3-4

Global systems elective [4]		3
Hydrologic systems elective [4]		3-4
Natural resource management elective [4]		3
Elective for the major [4]		3
	Credits	15-17
Semester Seven		
EVS 4021	Critical Thinking in Environmental Science	3
Elective		3
Electives for the major [4]		9
	Credits	15
Semester Eight		
Biological sciences elective [4]		3
Human dimensions elective		3
Physical sciences elective [4]		3
Electives for the major (if needed)		5
	Credits	14
	Total Credits	120

1 If CHM 1025 was taken in preparation for CHM 2045, the extra credits count toward the degree.

2 If students precede this sequence with MAC 1114 and MAC 1140 or MAC 1147, the extra credits count as electives toward the degree. Students can substitute MAC 2233 and MAC 2234 for MAC 2311 and MAC 2312, but this may preclude access to certain courses.

3 These courses may be used as substitutes:
- PHY 2053 and PHY 2053L for PHY 2004 and PHY 2004L;
- PHY 2054 and PHY 2054L for PHY 2005 and PHY 2005L.

4 From master list.

Students preparing for science modeling in graduate school should take MAP 2302 as an elective.

Approved Electives | Select According to Concentrations

No Concentration | 21 credits

Code	Title	Credits
Physical Sciences: Select 3-12 credits		3-12
Biological Sciences: Select 3-12 credits		3-12
Human Dimensions: Select 3-9 credits		3-9
Additional Skills and Concepts: Select 3-12 credits		3-12

Preprofessional Concentration | 9 courses | 22-25 Credits

This concentration includes chemistry and biology courses needed for admission into medical or veterinary school.

Code	Title	Credits
Biological Sciences		
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
PCB 3713C	Cellular and Systems Physiology	4-5
or PCB 4723C	Physiology and Molecular Biology of Animals	
MCB 3020	Basic Biology of Microorganisms	4
& 3020L	and Laboratory for Basic Biology of Microorganisms	
AGR 3303	Genetics	3-4
or PCB 3063	Genetics	
Additional Skills and Concepts		
CHM 2210	Organic Chemistry 1	3
CHM 2211	Organic Chemistry 2	3
CHM 2211L	Organic Chemistry Laboratory	2

Master Lists

Physical Sciences

Code	Title	Credits
ALS 3133	Agricultural and Environmental Quality	3
AOM 4643	Environmental Hydrology: Principles and Issues (Gen Ed Physical Sciences)	3
EMA 3010	Materials	3

ENV 4101	Elements of Atmospheric Pollution	3
FNR 4343C	Forest Water Resources	3
GEO 3250	Climatology [1]	3
GEO 3280	Principles of Geographic Hydrology [1]	4
GLY 2100C	Historical Geology [1]	4
GLY 3074	Oceans and Global Climate Change	3
GLY 3200C	Principles of Mineralogy	4
GLY 3603C	Paleontology	4
GLY 4155C	Geology of Florida	3
GLY 4552C	Sedimentary Geology	4
GLY 4734	Coastal Morphology and Processes	3
MET 3503	Weather and Forecasting	3
OCE 3016	Introduction to Coastal and Oceanographic Engineering	3
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory [1]	4
SWS 4223	Environmental Biogeochemistry	3
SWS 4231C	Soil, Water and Land Use	3
SWS 4245	Water Resource Sustainability [1]	3
SWS 4602C	Soil Physics	3
SWS 4715C	Environmental Pedology	4

[1] If the course was taken to fulfill the core requirement, it cannot fulfill the elective requirement.

Biological Sciences

Code	Title	Credits
AGR 4231C	Forage Science and Range Management	4
ALS 3153	Agricultural Ecology	3
AOM 4932	Special Topics in Agricultural Operations Management (Introduction to Biofuels)	3
BOT 2710C	Practical Plant Taxonomy	3
BOT 3151C	Local Flora of North Florida	3
EES 4102	Wastewater Microbiology	2
EES 4401	Public Health Engineering	3
ENV 4351	Solid and Hazardous Waste Management	4
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	3
ENY 3030C	Insect Field Biology	3
ENY 4161	Insect Classification	3
EVR 3323	Introduction to Ecosystem Restoration	4
FAS 4305C	Introduction to Fishery Science [1]	3
FAS 4405	Aquariums, Water and Aquaculture	3
FNR 3131C	Dendrology/Forest Plants	3
FNR 4623C	Integrated Natural Resource Management [1]	3
FOR 3153C	Forest Ecology	3
FOR 3214	Fire Ecology and Management	2
FOR 3214L	Fire Ecology and Management Laboratory	1
FOR 3342C	Tree Biology	3
FOS 3042	Introductory Food Science	3
FOS 4202	Food Safety and Sanitation	2
MCB 2000 & 2000L	Microbiology and Microbiology Laboratory	4
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	4
NEM 3002	Principles of Nematology	3
ORH 3513C	Environmental Plant Identification and Use	3
PLP 3002C	Fundamentals of Plant Pathology	4
PLS 3004C	Principles of Plant Science	3
SWS 4303C	Soil Microbial Ecology	3
WIS 3401	Wildlife Ecology and Management	3
WIS 4203C	Landscape Ecology and Conservation	3
WIS 4443C	Wetland Wildlife Ecology	4
WIS 4554	Conservation Biology	3
ZOO 4205C	Invertebrate Biodiversity	4

ZOO 4307C	Vertebrate Biodiversity	4
ZOO 4403C	Marine Biology (counts as one or two courses)	4
ZOO 4472C	Avian Biology	4

[1] If the course was taken to fulfill the core requirement, it cannot fulfill the elective requirement.

Human Dimensions

Code	Title	Credits
AEB 3450	Introduction to Natural Resource and Environmental Economics	3
AEB 4242	International Trade Policy in Agriculture (Gen Ed Social and Behavioral Sciences)	3
AEB 4283	International Development Policy [1]	3
ALS 3133	Agricultural and Environmental Quality	3
AMH 4930	History Research Seminar: US (Florida Environmental History)	3
ANT 3141	Development of World Civilization	3
ANT 3514C	Introduction to Biological Anthropology	4
ANT 4403	Environment and Cultural Behavior	3
BUL 4310	The Legal Environment of Business	4
EES 4050	Environmental Planning and Design	3
EES 4316	Industrial Ecology	3
ENV 4601	Environmental Resources Management	2
FOR 3004	Forests, Conservation and People [1]	3
FOR 3202	Society and Natural Resources	3
FOR 4060	Global Forests	3
FOR 4621	Forest Economics and Management [1]	4
FOR 4664	Sustainable Ecotourism Development	3
FOS 4731	Government Regulations and the Food Industry	2
FYC 3401	Introduction to Social and Economic Perspectives on the Community	3
GEO 2500	Global and Regional Economies	3
GEO 3315	Geography of Crop Plants	3
GEO 3352	The Human Footprint on Landscape	3
GEO 3372	Conservation of Resources	3
GEO 3430	Population Geography	3
GEO 3502	Economic Geography	3
GEO 4554	Regional Development	3
INR 4035	Rich and Poor Nations in the International System	3
INR 4350	International Environmental Relations	3
LEI 3120	Introduction to Outdoor Recreation and Parks	3
LEI 3546	Park Management	3
LEI 4321	Ecotourism	3
MAN 3025	Principles of Management	4
PLP 2000	Plants, Plagues and People	3
POS 2041	American Federal Government	3
POS 4931	Special Topics (Florida Environmental Politics)	3
POS 4931	Special Topics (Environmental Politics in the Global South)	3
POT 3503	Environmental Ethics and Politics	3
PUP 4224	Florida Environmental Politics	3
SWS 4550	Soils, Water and Public Health	3
SWS 4932	Special Topics in Soil and Water Science (Florida Lake Management)	3
SWS 4932	Special Topics in Soil and Water Science (Forest and Soil Ecosystem Services)	3
URP 4000	Preview of Urban and Regional Planning	3
WIS 2040	Wildlife Issues in a Changing World	3
WIS 4523	Human Dimensions of Natural Resource Conservation	3

[1] If the course was taken to fulfill the core requirement, it cannot fulfill the elective requirement.

Additional Skills and Concepts: Biology

Code	Title	Credits
AGR 3303	Genetics	3
BSC 3096	Human Physiology	3
PCB 3063	Genetics	4

PCB 4674	Evolution	4
PCB 4723C	Physiology and Molecular Biology of Animals	5

Business Administration

Code	Title	Credits
ACG 2021	Introduction to Financial Accounting	4
AEB 3133	Principles of Agribusiness Management	3
AEB 3144	Introduction to Agricultural Finance	3
AEB 3300	Agricultural and Food Marketing	3
AEB 4343	International Agribusiness Marketing (Gen Ed Social and Behavioral Sciences)	3
FIN 3403	Business Finance	4
MAN 3025	Principles of Management	4
MAR 3023	Principles of Marketing	4

Chemistry

Code	Title	Credits
BCH 3025	Fundamentals of Biochemistry	4
BCH 4024	Introduction to Biochemistry and Molecular Biology	4
CHM 2200L	Fundamentals of Organic Chemistry Laboratory	1
CHM 2210	Organic Chemistry 1	3
CHM 2211	Organic Chemistry 2	5
& 2211L	and Organic Chemistry Laboratory	
CHM 3120	Introduction to Analytical Chemistry	3
CHM 3400	Physical Chemistry for the Biosciences	3
EES 4201	Water Chemistry	3

Communication

Code	Title	Credits
AEC 3030C	Effective Oral Communication	3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
AEC 4905	Individual Study (Gender, Environment, Agriculture and Participation)	3

Mathematics

Code	Title	Credits
ENV 3040C	Computational Methods in Environmental Engineering	3
FNR 3410C	Natural Resource Sampling	3
MAC 2313	Analytic Geometry and Calculus 3	4
MAP 2302	Elementary Differential Equations	3
MAS 3114	Computational Linear Algebra	3
MAS 4105	Linear Algebra 1	4

Pest Management

Code	Title	Credits
AOM 3333	Pesticide Application Techniques	3
FOR 4624C	Forest Health Management	3
IPM 3022	Fundamentals of Pest Management	3

Social Sciences

Code	Title	Credits
AEB 3103	Principles of Food and Resource Economics	4

Spatial Analysis

Code	Title	Credits
GEO 3162C	Introduction to Quantitative Analysis for Geographers	4
GIS 3001C	Spatial Maps and Graphs	4
GIS 3043	Foundations of Geographic Information Systems	4
GIS 3072C	Geographic Information Systems	3
GIS 4021C	Aerial Photo Interpretation [1]	3
SUR 3103C	Geomatics [1]	3
SUR 4380	Remote Sensing [1]	3

SWS 4720C	GIS in Soil and Water Science	3
URP 4273	Survey of Planning Information Systems	3

[1] If the course was taken to fulfill the core requirement, it cannot fulfill the elective requirement.

Academic Learning Compact

Environmental science is the science of humanity's role in natural systems, the basis of our economy. This program accesses courses university-wide and provides numerous opportunities for international study. Students will acquire reliable knowledge and interdisciplinary perspectives of complex environmental issues, gaining the full range of knowledge relevant to a professional understanding of complex environmental problems in the biological and physical sciences, ethics, economics, policy and law.

Before Graduating Students Must

- Complete at least one course in each of the foundation areas.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content

1. Acquire knowledge and demonstrate understanding of basic terminology, concepts, methodologies and theories in the physical and biological sciences that describe environmental systems.
2. Acquire knowledge of essential concepts in the social sciences that describe human activity in the environment.

Critical Thinking

3. Apply the scientific method to develop reasoned solutions to environmental problems.

Communication

4. Communicate knowledge, ideas and reasoning clearly, effectively and objectively in both written and oral forms.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
EVS 3000 and EVS 3000L	I	I	I	I
EVS 4021	A	A	A	A
Earth and Soil Sciences	R			
Ecology	R	R	R	
Environmental Ethics		R	R	R
Environmental Policy		R	R	R
Global Systems	R			
Hydrologic Systems	R			
Human Dimensions		R	R	R
Natural Resource Management	R	R	R	

Assessment Types

- Oral presentation or written essay

Environmental Science Minor

The environmental science minor is intended for majors in science, engineering or business, providing exposure to the major subject areas of the environmental core.

About this Program

- **College:** Agricultural and Life Sciences (p. 40)
- **School:** Natural Resources and Environment (p. 1356)

- **Credits:** 15-17 | Completed with minimum grades of C
- **Related Environmental Science Programs**

Students outside the School of Natural Resources and Environment can apply for admission to the minor as long as they earn 45 credits before applying. The application is available in 2020 McCarty Hall D. Students first must obtain their college's approval before submitting the completed form for processing.

Transfer work will be accepted only for PCB 4043C and an earth and soil systems course (refer to core requirements for the major). Admission consideration requires a minimum overall 2.0 GPA on all UF coursework attempted.

Required Courses

Contact environmental science advisor to register

Code	Title	Credits
Required		
EVS 3000 & 3000L	Environmental Science and Environmental Science Laboratory	4
Ecology		
Select one:		2-4
ALS 3153	Agricultural Ecology	
EES 4103	Applied Ecology (GE-B)	
FOR 3153C	Forest Ecology (GE-B)	
PCB 3601C	Plant Ecology	
PCB 4043C	General Ecology (GE-B)	
Subject Areas		
Select one course from three of five Subject Areas		9-12
Total Credits		15-20

Subject Areas

Code	Title	Credits
Environmental Ethics		
AEB 4126	Agricultural and Natural Resource Ethics (GE-H, S)	3
PHM 3032	Ethics and Ecology (GE-H)	3
POT 3503	Environmental Ethics and Politics	3
REL 2104	Environmental Ethics (GE-H)	3
REL 3492	Religion Ethics and Nature (GE-H)	3
Organic Chemistry		
BCH 3023	Elementary Organic and Biological Chemistry	3
CHM 2200	Fundamentals of Organic Chemistry	3
EES 4203	Phase Partitioning in the Environment	4
Earth and Soil Science		
GEO 2200 & 2200L	Physical Geography and Physical Geography Laboratory (GE-P)	4
GLY 1000	Exploring the Geological Sciences (GE-P)	3
GLY 2010C	Physical Geology (GE-P)	4
GLY 2030C	Environmental and Engineering Geology (GE-P)	3
GLY 2100C	Historical Geology (GE-P)	4
SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (GE-P)	4
SWS 4231C	Soil, Water and Land Use (GE-P) [1]	3
Environmental Policy		
AEB 4123	Agricultural and Natural Resource Law	3
AEB 3450	Introduction to Natural Resource and Environmental Economics	3
AEB 4283	International Development Policy (GE-S)	3
ECP 3302	Environmental Economics and Resource Policy	4
FNR 4660	Natural Resource Policy and Economics	3
INR 3034	Politics of the World Economy	3
INR 3502	International Institutions (GE-S, N)	3
POS 4931	Special Topics	3
Natural Resource Management		

AGG 3501	Environment, Food and Society	3
EES 3008	Energy and Environment	3
FAS 4305C	Introduction to Fishery Science	3
FOR 3004	Forests, Conservation and People	3
FOR 3200C	Foundations of Natural Resources and Conservation	3
FOR 4621	Forest Economics and Management (GE-P)	4
LEI 3546	Park Management	3
PLS 3004C	Principles of Plant Science	3
SWS 4231C	Soil, Water and Land Use (GE-P) [1]	3
SWS 4932	Special Topics in Soil and Water Science	3

[1] Does not satisfy the requirement for a course from the other group.

Related Environmental Science Programs

- Bachelor of Arts or Bachelor of Science in Environmental Science (p. 1357)

Majors

Index of all Majors (http://catalog.ufl.edu/UGRD/programs/#filter=filter_22)

An academic major represents each student's principal interest and the majority of their efforts during their undergraduate studies. Each major's core curriculum covers a range of subjects that provide the student with a solid foundation in their chosen field of study.

Declaring a Major

Upon entering UF as a freshman, students are encouraged to declare the major that they are most likely to pursue. Students may declare Exploratory if they are unsure. In their first few terms, students should take courses to explore multiple academic areas. Many students have varied interests and will graduate with minors, certificates, double majors, dual degrees and/or combined degrees.

Exploring Areas of Interest

Exploring areas of interest early helps students determine whether they want to pursue additional academic programs. In addition, quite a few students change majors in their first or second year, so exploring multiple areas early helps students to confirm their choice of major or identify a more desirable major.
More Info (https://www.advising.ufl.edu/exploratory)

Declaring an Exploratory Category

First-year students with no major preference can declare one of three exploratory categories (humanities and letters, social and behavioral sciences, or science and engineering) for the first three fall/spring terms. Exploratory students are advised by the Academic Advising Center and affiliated with the College of Liberal Arts and Sciences. Exploratory students should be purposeful in all of their decisions, particularly when it comes to choosing classes for each semester to be sure they are taking courses to explore potential majors. They must also actively work to narrow down UF majors to one that fits their aspirations and abilities.

Changing Majors

It's not unusual for students to change their minds about majors and career paths as they gain educational and practical experience. To help ensure that students make the best choices regarding their major and degree, UF provides guidance, information, and technical assistance.

Students should proactively determine their major to obtain the degree that fits them best instead of being forced to select a major due to pending academic deadlines.

There is often little relationship between undergraduate degrees and specific types of employment. A specific major does not guarantee employment in a specific field, nor does a specific major limit employment to a specific field.

Ways to Explore Areas of Study at UF

Review the Undergraduate Majors

Students should search for majors that interest them and explore required courses; they should also speak to faculty or advisors in those departments.

Use ONE.UF to Explore Majors by Subject Area, College, or Major

Current students can use What-If reports in ONE.UF (https://one.uf.edu) to discover if coursework they have taken applies toward a given major's requirements. For additional information, students should contact the department offering the degree or the advising office of the appropriate college.
More Info (https://one.uf.edu)

Meet with an Academic Advisor

Students can discuss majors and career options with an advisor in the college affiliated with their interests.
More Info (http://www.ufadvising.ufl.edu/college-advising-contacts)

Utilize the Exploratory Website

Students who are considering different majors can review advising suggestions, an exploratory timeline, resources, and tips on choosing a major.
More Info (https://www.advising.ufl.edu/exploratory)

Visit the Career Connections Center

The Career Connections Center located on the first floor of the J. Wayne Reitz Union helps students make choices about their major and career. In addition to providing individual and group career counseling, the Career Connections Center library covers everything from accounting to zoology. Many other resources are available through the explore majors and careers section (https://www.crc.ufl.edu/students/explore-majors-

careers) of their website, including information about career planning and numerous helpful exercises. After a tentative decision is made, the Career Connections Center helps students test their choice by participating in externships, internships, co-ops, and career fairs.
More Info (https://career.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0686)

Talk to a College or Department Representative

Students should be sure to discuss various academic programs and their potential career implications. Websites and contact information for each major can be found on its major page.

Minors

Index of all Minors (http://catalog.ufl.edu/UGRD/programs/#filter=filter_23)

The minor provides a traditional, well-accepted way to recognize that a student has completed a significant body of work outside the major. Students can follow-up on long-time personal interests, satisfy intellectual curiosity generated by introductory courses, differentiate their program of study from those of fellow students or enhance their opportunities for employment or for admission to graduate or professional schools.

Applying for a Minor

Students should review the information about their minor of interest in this catalog. In general, each minor page explains which students are eligible to pursue the minor, any qualifications or prerequisites necessary to be eligible for the minor and the requirements to complete the minor. Students are also encouraged to discuss the minor with the offering department.

Students interested in pursuing a minor must complete an application. The application requires the approval of the student's college as well as the college offering the minor. Students who are about to graduate and who have already completed all the requirements for the minor still must apply for admission using the button below to be granted the minor upon graduation. The approval process can take some time so students are strongly encouraged to apply to pursue a minor early.

Apply for a Minor (http://www.registrar.ufl.edu/pdf/minorapp.pdf)

Certificates

Index of all Certificates (http://catalog.ufl.edu/UGRD/programs/#filter=filter_24)

Each certificate program must have at least nine credits that are distinct from every other certificate or minor. That is, certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors. All courses required must be completed with minimum grades of C or S in each course. The undergraduate certificate does not require completion of graduate courses.

Applying for a Certificate Program

Students should review the information about their certificate of interest in this catalog. In general, each certificate page explains which students are eligible to pursue the certificate, any qualifications or prerequisites necessary to be eligible for the certificate and the requirements to complete the certificate. Students are also encouraged to discuss the certificate with the offering department.

Students interested in pursuing a certificate must first apply for program admission. After being admitted and completing the requirements, students will be able to apply to be granted the certificate through ONE.UF (https://one.uf.edu). Students who are about to graduate and who have already completed all the requirements for the certificate still must apply for admission using the button below before applying to be granted the certificate through ONE.UF. The certificate approval process can take some time so students are strongly encouraged to apply to pursue a certificate early.

Apply for a Certificate Program (http://www.admissions.ufl.edu/start.html)

Academic Advising

Mission

The university is committed to quality academic advising for all students. The academic advising mission is to assist students in attaining their educational goals. New students are required to attend, and will receive advising during Preview, UF's new student orientation. After Preview, student advising is handled by college and departmental advisors.

University Responsibilities

The Academic Advising Center (http://www.advising.ufl.edu) in 1000 Farrior Hall (http://campusmap.ufl.edu/?loc=0019) is responsible for certain university advising functions: coordinating academic advising during Preview, advising exploratory students, and providing resources and information to students interested in post-baccalaureate professional programs such as dentistry, law, medicine, and veterinary medicine.

College/School and Department Responsibilities

The dean of each college or school ultimately is responsible for ensuring that academic advising is available and accessible to all students within the college or school. Some colleges' advisors are located in college-level offices, while others are located in departmental offices.

Academic Advising Contacts at UF (http://www.ufadvising.ufl.edu/college-advising-contacts)

Student Academic Responsibilities

To graduate, students are responsible for knowing and fulfilling all university, college, and major requirements.

All students must:

- Attend the Preview orientation program to receive academic advising before their first term of enrollment
- Maintain a GatorLink email address and read official university correspondence sent to this address
- Meet with an advisor in the appropriate college/major upon entrance to a major
- Confer with an advisor on a regular basis about options for a major if the student is undecided about a major

- Review the degree audit each semester to ensure they fully understand their remaining degree requirements
- Seek advising when experiencing academic difficulty to avoid, if possible, academic probation or off-track status, or to understand their options if on probation or off-track
- Maintain their own personal academic records, including transcripts, degree audits, evaluation of transfer work, and notes from previous advising sessions.

Students who at any time are confused about academic requirements or their progress toward a degree are encouraged and expected to meet with an advisor.

Associate of Arts

Area of Interest	Where to Go for Academic Assistance
• Degree certification	• Apply for the degree by the deadline
• Requirements	• The Academic Advising Center to confirm A.A. eligibility

Majors

Area of Interest	Where to Go for Academic Assistance
• Applying to receive a degree and degree certification	• Apply for the degree by the deadline, and
	• The student's college to confirm eligibility for graduation
• Information about a major	• The college/department that offers that major
• Admission to a major	• The college/department that offers that major or minor
• Degree requirements	• The student's college
• Planning future semesters	• The student's college
• Exploring majors/unsure about a major	• Exploratory advising services: Academic Advising Center
	• Colleges offering majors of interest
	• Career Connections Center
• Pursuing a double major or dual degree	• The student's college to determine eligibility, then
	• The departments/colleges offering the majors of interest

Minors

Area of Interest	Where to Go for Academic Assistance
• Information about a minor	• The college/department that offers that minor

Drops/Adds and Withdrawals

Area of Interest	Where to Go for Academic Assistance
• Add a class after drop/add	• The department that offers the class for the approval to add, then
	• The student's college to determine the next step
• Drop a class after drop/add	• The student's college
• Drop a class after the deadline	• The student's college to determine the eligibility and the next step
• Withdrawal from all current term courses	• ONE.UF
	• Registrar's Office

Requirements and Regulations

Area of Interest	Where to Go for Academic Assistance
• State of Florida Summer Term Enrollment Requirement	• The student's college to understand the requirement and if they have met the requirement
	• The Registrar's Office if the student wishes to petition the requirement
• Excess Hours Surcharge	• The student's college
• Flexible learning classes	• The student's college
• General education requirements	• The student's college
• Transient status	• The student's college

Help with Grades

Area of Interest	Where to Go for Academic Assistance
• Tutoring or help with specific courses	• Academic Support Programs
• Study skills and learning strategies to improve grades	• Academic Support Programs

Academic Progress

Universal Tracking

Universal Tracking is the university's monitoring system that assesses progress toward the student's degree requirements. It provides feedback on the student's progress in a major, helping them find the best academic path to complete their degree. For each major, there is a model semester plan which represents an example progression for completing the degree in a timely fashion.

Each semester, students are reminded via GatorLink email and Registration Prep in ONE.UF to review their degree audit before registration for the next term. The audit fits the student's courses and grades into the degree requirements for their major, indicating the requirements that have been completed as well as showing which requirements have yet to be completed.

Students Who Enroll During the Fall and Spring Semesters

Progress toward a degree is monitored in those semesters to ensure that students are on track. For these students, the summer terms may provide opportunities to catch up on critical-tracking courses or to improve their GPA.

Students Who Enroll Only in the Spring and Summer Semesters

Innovation Academy Students

Progress toward a degree is monitored in those semesters to ensure that students are on track. For these students, the fall semester may provide opportunities to catch up on critical-tracking courses or to improve their GPA.

Critical-Tracking Criteria

Minimum Academic Progress Under Universal Tracking

- Students do not have to complete all of the courses in the model plan each semester to remain on track; they simply have to meet certain minimum requirements known as **critical-tracking criteria**.
- Critical-tracking criteria usually include a minimum GPA (UF or overall, depending on the academic program), completion of certain courses toward the major (critical-tracking or preprofessional courses), and a minimum GPA in the critical-tracking courses (tracking or preprofessional GPA). The critical-tracking criteria for the first five terms are listed just before the model semester plan for that major. For many majors, critical-tracking courses are bolded in the semester plan. In the degree audit, a summary of critical-tracking criteria appears near the top of the audit. Each major also has a tracking audit that can be accessed through ONE.UF.
- The critical-tracking criteria are minimum requirements for progression; students should consult their degree audit and their advisor to ensure they meet all requirements for graduation.
- All students admitted as freshmen are monitored in their first semester for the Semester 1 critical-tracking criteria, regardless of the number of credits they have earned through dual enrollment and credit by examination.
- An **off-track** student will have a hold placed on their registration to require a meeting with an advisor to discuss the student's progress. This enables the student to determine what is necessary to get back on track, or to change to a more appropriate major.
- If a student is **off-track for two consecutive terms**, they must change to a major more appropriate to their skills, goals, and performance. Once the student selects a new major, they should contact the college offering that major to schedule an appointment with an advisor to discuss changing majors.

Off-Track Notification

Student progress toward tracking is assessed twice a semester. An analysis of whether the student will be on track at the end of the term ('predictive' analysis) occurs in the fourth week. If a student is predicted to be off-track at the end of the term, a hold is placed on their registration requiring the student meet with an advisor to make a plan to get back on track or change majors.

If a student is predicted to be on-track during the term, but ends up off-track at the end of term, they should meet with an advisor in their college/major before the end of drop/add for the next term to make a plan to get on track or change majors.

Students should review any holds on ONE.UF (http://one.uf.edu) when planning their registration for the next semester.

How Tracking Holds affect a Student

- Holds applied before advance registration prevent students from registering until they consult an advisor to develop an academic plan to complete the critical-tracking courses for the current major or identify a more appropriate major.
- Holds applied at the end of the semester for failure to be on track for two consecutive semesters require students to see an advisor before the next term of enrollment to select a new major and to avoid cancellation of enrollment.

Academic Probation and Dismissal

Academic probation and dismissal follow the academic standards of the university and require the maintenance of grade point averages and reasonable adherence to the program of study.

A minimum grade point average of 2.0 is required to graduate from any UF undergraduate degree program. Any college may specify additional academic standards and students are responsible for observing these regulations.

Additional Information

- Probation (p. 1425)
- Dismissal (p. 1425)
- Changing Majors (p. 1378)

Academic Support Programs

Academic Support, Office of, 311 Little Hall

The Office of Academic Support (OAS) for Undergraduate Affairs, in collaboration with faculty and staff, provides programs and services to enrich the experience of UF students. Our mission is to offer supportive resources and opportunities that help students thrive and grow professionally. OAS is committed to creating an encouraging and inclusive learning community that challenges our students to achieve academic excellence. Our comprehensive academic support includes peer coaching, tutoring, general advising, and other resources to promote the empowerment and growth of students as scholars. Our students

are prepared to set and achieve academic goals, persist, graduate, and advance in their careers.
Map (http://campusmap.ufl.edu/?loc=0655) More Info (http://oas.aa.ufl.edu)

Career Connections Center, Level Two Reitz Union

The Career Connections Center (Career Center) provides events and services to help students develop and implement their Career Action Plan to realize their next steps. Students can work with Career Center staff to clarify their interests and abilities, select a major, develop professionally, build experience, and prepare for future internship, graduate school, or employment searches.

Students should activate their Gator CareerLink account to learn about the range of in-person and online career planning services available to them, and to see which employers are actively recruiting University of Florida candidates.

The Career Connections Center hosts hundreds of employers annually as they attend a variety of career events, hold on-campus interviews, present information sessions, and interact informally with students.
Map (http://campusmap.ufl.edu/?loc=0686) More Info (http://www.crc.ufl.edu)

Center for Undergraduate Research, 202 Newell Hall

The Center for Undergraduate Research (CUR) is committed to fostering a culture of research that encourages students in all levels and disciplines to include a research component as a critical part of their undergraduate experience. CUR provides guidance to students interested in pursuing research opportunities and coordinates campus undergraduate research activities. CUR also works to expand undergraduate research opportunities across campus.
Map (http://campusmap.ufl.edu/?loc=0013) More Info (http://cur.aa.ufl.edu)

Collegiate Veterans Success Center, 4th Floor Yon Hall

The Collegiate Veterans Success Center serves over 2,000 student Veterans, Active Duty Service members, and military families at UF by providing a designated location on campus for student Veterans to study, meet with on and off campus resources, and to spend time with and support each other in a fun and relaxing space. The Collegiate Veterans Success Center at UF is also one of ninety-four universities to host the U.S. Department of Veterans Affairs' VetSuccess on Campus Counselor (VSOC). The VSOC Program serves as the on-campus face for the U.S. Department of Veterans Affairs. UF has been honored for its support services for student Veterans, Active Duty Service members, and military families.

- UF is ranked 2nd out of 81 colleges and universities in Florida for Veteran friendliness (by College Factual);
- UF is ranked 11th out of 1,820 colleges and universities for Veteran friendliness (by College Factual);
- UF is ranked 6th out of 39 Tier One research institutions with outstanding programs and support for our nation's Veterans and their Families (Military Friendly 2019); and
- UF was awarded a Best For Vets college award for excellent academic support of military students (Military Times 2019).

Map (http://campusmap.ufl.edu/?loc=0158) More Info (https://www.dso.ufl.edu/veteran)

Dean of Students Office Care Area, 202 Peabody Hall

Professionals in the Dean of Students Office work with students, their families, and campus and community resources to develop success plans and provide ongoing support for students in distress dealing with a variety of issues.
Map (http://campusmap.ufl.edu/?loc=0004) More Info (https://www.dso.ufl.edu/care)

Disability Resource Center, Reid Hall and Cypress Hall

The Disability Resource Center (DRC) in the Division of Student Affairs, celebrates disability identity as a valued aspect of diversity. We champion a universally accessible community that supports the holistic advancement of individuals with disabilities.

The DRC serves more than 3.000 registered students to provide access within the academic environment. This may be done through academic accommodations as well as collaborating with faculty and staff across the University to proactively address barriers. Students are able to register online by visiting our website (https://disability.ufl.edu). DRC staff are available to consult with faculty and staff on how to best support the access needs of gators with disabilities. Students and their families can schedule an inquiry appointment to learn more about the DRC by emailing drcaccessuf@ufsa.ufl.edu or calling 352.392.8565..
Map (http://campusmap.ufl.edu/?loc=0020) More Info (https://www.dso.ufl.edu/drc)

Graduate Diversity Initiatives, Office of, 123 Grinter Hall

The Office of Graduate Diversity Initiatives (OGDI) is a function of the Graduate School dedicated to the recruitment and retention of underrepresented graduate students. This includes increasing the number of UF graduate students from underrepresented ethnic/racial populations, low-income or first-generation college students, as well as advancing and promoting professional development for all graduate students at the University of Florida. OGDI strives to provide currently enrolled graduate students with programs and services to assist and support the pursuit of a successful graduate education. OGDI provides students with social, informational, referral, mentoring, and, in some cases, financial support. Additionally, OGDI maintains partnerships with administrative offices, academic units, research centers, student services, and organizations across campus to help students with the graduate experience. OGDI accomplishes its mission through several programs held throughout the academic year.

Undergraduates Interested in Graduate School

OGDI aims to improve our UF undergraduates' access to information about graduate school opportunities and to assist graduate schools in identifying qualified underrepresented candidates interested in graduate studies. In this effort, OGDI maintains The University of Florida's membership to the National Name Exchange Consortium (https://apps.grad.uw.edu/nne). This consortium matches undergraduate

underrepresented students interested in graduate studies to graduate schools across the nation. The name exchange seeks to increase the number of qualified minority students accepted into graduate school. OGDI also participates in several recruitment events throughout the state and beyond.

More Information

Office of Graduate Diversity Initiatives
123 Grinter Hall
Gainesville, FL 32611
352.392.6444

Map (http://campusmap.ufl.edu/?loc=0002) More Info (http://graduateschool.ufl.edu/about-us/offices/division-of-graduate-student-affairs-dgsa/graduate-diversity-initiatives-ogdi) Email (ogdi@aa.ufl.edu)

International Center, 170 Hub

The UF International Center (UFIC) supports and promotes international education and research across the university and provides valuable support services for all students and faculty at UF through its various units. International Student Services provides orientation and immigration services to international students throughout their studies at UF. Exchange Visitor Services provides administrative support for international scholars at UF. Undergraduate Academic Programs provides opportunities for all undergraduate students to add an international dimension to their education. The Office of Global Engagement supports faculty development of international research and training programs.

The center also coordinates study abroad, which offers spring break, summer, semester, and academic-year programs. Students can live and study abroad while fulfilling UF degree requirements. Exchange programs enable students to pay UF tuition for study overseas. Scholarships and financial aid can help to finance the international academic experience. Study abroad advisors work with students to find a program that fits both their personal and academic needs.
Map (http://campusmap.ufl.edu/?loc=0032) More Info (http://www.ufic.ufl.edu)

McNair Scholars Program, 319 Infirmary Building

The Ronald E. McNair Scholars Achievement Program encourages undergraduate students to pursue advanced studies at the Ph.D. level. This intense academic research program, one of the most prestigious in the country, is designed for first-generation and low-income college students, as well as students from groups underrepresented at the graduate level. There are 187 McNair programs nationally, which are funded by Federal TRIO Program grants from the U.S. Department of Education.

New scholars begin the program in the summer with an intensive research internship, which includes a three-credit Research Methods and Writing course, GRE preparation, and workshops on the graduate school application process and other topics related to graduate study at the doctoral level.

McNair Scholars receive mentoring, academic support, faculty-guided research experience, and a research stipend of up to $2,800, and travel funding to present at professional conferences and visit prospective graduate programs. Application information (http://mcnair.aa.ufl.edu/application.aspx).

Map (http://campusmap.ufl.edu/?loc=0018) More Info (http://mcnair.aa.ufl.edu)

Teaching Center, SW Broward Hall (Main office)

The Teaching Center offers various academic resources to help students succeed in their studies. All of our tutoring services are free to current students. The following tutoring services are available:

- Drop-in tutoring: best for students who have a few questions or want a place to study with the opportunity to ask questions of a tutor.
- Appointment tutoring: best for students who want to meet regularly with a tutor for an entire class period. These appointments meet at the same time each week of the term.
- Study Groups / SI: group tutoring which allows students to work together with a peer leader. In SI students actively process concepts through social interaction.
- Test Reviews: large auditorium tutoring is great for an overall review of what to expect on upcoming course exams. GRE preparation workshops are also available each semester.
- Video Resources: features tutors explaining how they think about concepts and how they approach problem solving. These online resources are available any time.

A study skills/learning strategies improvement program is also available. Students may work individually with a learning strategist or participate in workshops covering a variety of topics. Study skills videos are available online as well.

The Teaching Center is a certified Prometric, Pearson Vue Select, and NCTA Testing Center, and also provides test proctoring for distance education courses and CLEP exams. There is a fee for test proctoring/administration, however. Please be aware that CLEP exams must be taken and scores reported to UF before the end of the first semester of enrollment (or Fall semester for students entering Summer B).

The Teaching Center also provides tutoring in satellite centers (mathematics through Calculus 1 in LIT 215 and chemistry in TUR 1315). Tutoring schedules may be found on the website.
Map (http://campusmap.ufl.edu/?loc=0011) More Info (https://teachingcenter.ufl.edu)

University of Florida Libraries

All seven of the libraries on campus serve the entire community, and each has a special mission to be the primary support of specific colleges and degree programs. The Libraries home page (http://cms.uflib.ufl.edu) offers a wealth of information about the Libraries and links to a vast array of resources.

The Marston Science Library and Library West are the largest libraries on campus. In Marston, the first floor Collaboration Commons has 21 group study rooms and a multipurpose conference room featuring a multi-touch visualization wall. The first floor is also home to MADE@UF, a collaboration space created by the Libraries and Academic Technology with equipment, software and training for virtual reality and augmented reality applications. A 3D printing lab is located on the second floor and includes 3D scanners and printers available for lending.

Library West offers 18 group study rooms, a graduate student floor, graduate student/faculty study carrels, and the Scott Nygren Scholars Studio, an emerging community center for digital humanities and digital

scholarship. The One Button Video Recording Studio is available for student and faculty checkout. Six ProctorU testing carrels are available by reservation. Library West also has a Tutoring Center, Accessibility Studio and FitDesk study bikes.

More Info (http://cms.uflib.ufl.edu)

University Minority Mentor Program

The University Minority Mentor Program is an opportunity open to first-year students from underrepresented populations. The program pairs each participant with a faculty/staff mentor to assist with the students' transition to college. Mentoring programs have a dramatic and positive effect on student retention, graduation rates, and faculty-student relations. This six month program cycle is administered by Multicultural and Diversity Affairs. For more information, email ummp@multicultural.ufl.edu.
More Info (https://multicultural.ufl.edu/programs/ummp)

University Writing Program, 2215 Turlington Hall

The University Writing Program (UWP) offers writing-intensive courses, workshops, and tutorial support to students and faculty. Instruction is based on the premise that writing is a transferable skill necessary for success in all academic and professional fields.

The University Writing Program also provides one-on-one consultations on any topic related to writing in the Writing Studio. Students can make an appointment online or by contacting the UWP office.

Courses taught by writing program faculty include:

Code	Title	Credits
ENC 1101	Expository and Argumentative Writing	3
ENC 1102	Argument and Persuasion	3
ENC 2305	Analytical Writing and Thinking	3
ENC 3246	Professional Communication for Engineers	3
ENC 3254	Professional Writing in the Discipline	3
ENC 3453	Writing in the Health Professions	3
ENC 3459	Writing in the Medical Sciences	3
ENC 3464	Writing in the Social Sciences	3
ENC 3465	Writing in the Law	3
ENC 3466	Writing in the Communication Sciences	3
ENC 3483	Writing in the Physical Sciences	3

Map (http://campusmap.ufl.edu/?loc=0026) More Info (http://www.writing.ufl.edu)

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Academic Honors

Honors Program

The vision of the University of Florida Honors Program (http://www.honors.ufl.edu) is to encourage and cultivate the full intellectual growth of preeminent undergraduates and aspiring scholars through curricular and co-curricular experiences to fulfill their potential and goals. The Honors Program provides intellectually stimulating experiences designed to create graduates that have disciplinary depth and who also have the ability to fully engage in meaningful dialog across disciplines.

There are two pathways to admission / participation in the Honors Program:

1. Freshman Honors Program. The Freshmen Honors Program (http://www.honors.ufl.edu/prospective/admissions/freshmen-honors-program-fhp) (FHP) is open to high school seniors who are entering UF as incoming freshmen.

Members of the Freshmen Honors Program must earn at least a 3.5 cumulative UF GPA and take at least 2 credits of Honors courses (earned with a B or higher) during their first year. The first year includes Summer B, Fall, and Spring, but not the following summer. Students who complete these requirements will move automatically into University Honors for the remainder of their time at UF.

2. University Honors Program. The University Honors Program (http://www.honors.ufl.edu/prospective/admissions/university-honors-program-uhp) (UHP) is open to sophomores through seniors. Members of the Freshmen Honors Program are automatically advanced to University Honors if they complete the FHP. Currently enrolled freshmen who are not members of FHP may apply to UHP at the conclusion of their first year at UF, provided they have earned at least a 3.5 cumulative UF GPA and 28 credits during that first year (not including incoming credits via accelerated mechanisms).

To complete (http://www.honors.ufl.edu/current/completion-requirements) the University Honors Program, students must graduate with honors in their major and earn 8 academic and 6 enrichment points through various activities. Students who meet the UHP completion requirements will receive a notation on their official UF transcript and a medallion to wear at commencement.

Students in the Honors Program have access to specialized honors courses (http://www.honors.ufl.edu/current/courses), housing in the Honors Residential College at Hume Hall (https://www.housing.ufl.edu/housing/hume-hall), holistic academic advising and coaching (http://www.honors.ufl.edu/current/advising/#form), and honors student involvement opportunities (http://www.honors.ufl.edu/about/student-orgs), in addition to early course registration for their first 10 credits each semester through the junior year. Early registration privileges are limited to students in good standing with either the FHP or UHP.

Honor Roll

Students will appear on the President's Honor Roll if they achieve a perfect 4.0 GPA with at least 15 credits of graded academic course work (no S/U) in the fall or spring semester, or at least 12 credits of graded coursework in the summer semester (consisting of any combination of credits earned in Summer A, B, or C). This achievement will appear on the student's transcript as a permanent record. Students with questions about the President's Honor Roll should contact the Office of the University Registrar in 222 Criser Hall.

Students registered with the Disability Resource Center may be allowed to vary the number of credits required, but not the GPA requirement, following certification by the DRC.

Dean's List

Students will appear on their college's Dean's List if they meet the requirements. In addition, please note the following conditions:

- S/U and internship courses are not counted in the GPA calculation for Dean's List.
- GPA value is determined to the hundredths place and cannot be rounded up (e.g., 3.495 = 3.49).
- Grades of I, NG, I* or N* cannot be calculated into the GPA.

- Students registered with the Disability Resource Center may be allowed to vary the number of credits required, but not the GPA requirement, following certification by the DRC.
- Students are eligible to earn the Dean's List designation only once for the entire summer semester.
- In all colleges except Public Health and Health Professions, the credits in the Summer Requirements column can be earned in any combination of Summer A, B, or C courses. For Public Health and Health Professions, the six credits may be earned in either Summer A or Summer B, but not Summer C, and those students can only appear on their Dean's List once for the summer semester.

Agricultural and Life Sciences, College of

Required GPA	Fall and Spring Requirements	Summer Requirements
3.70	Minimum 12 credits; No S/U, N, or I grades	Minimum 12 credits; No S/U, N, or I grades

Arts, College of the

Required GPA	Fall and Spring Requirements	Summer Requirements
3.50	Minimum 12 credits	Minimum 12 credits

Business, Warrington College of

Required GPA	Fall and Spring Requirements	Summer Requirements
3.70	Minimum 12 Credits; No S/U	Minimum 12 Credits; No S/U
OR		
3.50	Minimum 15 Credits; No S/U	Minimum 15 Credits; No S/U

Design, Construction and Planning, College of

Required GPA	Fall and Spring Requirements	Summer Requirements
3.70	Minimum 12 credits	Minimum 12 credits

Education, College of

Required GPA	Fall and Spring Requirements	Summer Requirements
3.75	Minimum 12 credits; No S/U	Minimum 12 credits; No S/U

Engineering, College of

Required GPA	Fall and Spring Requirements	Summer Requirements
3.20	Minimum 14 credits; No S/U	Minimum 12 credits; No S/U

Health and Human Performance, College of

Required GPA	Fall and Spring Requirements	Summer Requirements
3.50	Minimum 15 credits	Minimum 12 credits

Journalism and Communications, College of

Required GPA	Fall and Spring Requirements	Summer Requirements
3.50	Minimum 12 credits	Minimum 12 credits

Liberal Arts and Sciences, College of

Required GPA	Fall and Spring Requirements	Summer Requirements
3.75	Minimum 12 credits; No dropped courses, grade changes or S/U	Minimum 12 credits; No dropped courses, grade changes or S/U

Pharmacy, College of

Required GPA	Fall and Spring Requirements	Summer Requirements
3.50	Minimum 12 credits; No N grades	Minimum 12 credits; No N grades

Public Health and Health Professions, College of

Required GPA	Fall and Spring Requirements	Summer Requirements
3.50	Minimum 15 credits	Minimum 6 credits; In either Summer A or Summer B

Graduating With Honors

The university offers three levels of honors: **cum laude**, **magna cum laude** and **summa cum laude**.

Please be aware that:

- GPA value is determined to the hundredths place (e.g., 3.495 = 3.49).
- Transfer credits and S/U option credits are excluded.
- Postbaccalaureate students are not eligible for honors recognition.
- Honors recognition is printed on the university diploma.
- Students should check with an academic advisor for complete details.

Honors by College and Major

Fisher School of Accounting

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.2 GPA in all upper-division accounting coursework and a 3.2 upper-division GPA, which includes all courses taken after the student reaches 60 semester credit hours.	3.6 GPA in all upper-division accounting coursework and a 3.6 upper-division GPA, which includes all courses taken after the student reaches 60 semester credit hours. Completion of ACG 4970, with thesis and abstract.	3.8 GPA in all upper-division accounting coursework and a 3.8 upper-division GPA, which includes all courses taken after the student reaches 60 semester credit hours. Completion of ACG 4970, with thesis and abstract.

College of the Arts

Art and Art History

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.5 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits.	3.75 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of a creative project or thesis. Department recommends the distinction awarded.	3.90 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of a creative project or thesis. Department recommends the distinction awarded.
	Art: Studio, graphic design and art education candidates are expected to work with their thesis advisor to determine appropriate content for their honors thesis submission. Art history candidates must submit a research paper. Art education candidates must submit their teaching portfolio.	**Art:** Studio, graphic design and art education candidates are expected to work with their thesis advisor to determine appropriate content for their honors thesis submission. Art history candidates must submit a research paper. Art education candidates must submit their teaching portfolio.

Digital Arts and Sciences

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.5 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits.	3.75 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of a creative project. Department recommends the distinction awarded.	3.90 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of a creative project. Department recommends the distinction awarded.

Music and Music Education

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.4 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits.	3.75 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of a creative project or thesis. Department recommends the distinction awarded.	3.90 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of a creative project or thesis. Department recommends the distinction awarded.

	Music: Music majors must submit a creative or research project under the guidance of a music faculty member. Music education majors must complete the project prior to student teaching.	**Music:** Music majors must submit a creative or research project under the guidance of a music faculty member. Music education majors must complete the project prior to student teaching.

Theatre and Dance

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.4 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits.	3.75 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of a written thesis. Department recommends the distinction awarded.	3.75 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of a written thesis. Department recommends the distinction awarded.

College of Agricultural and Life Sciences

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.5 or higher GPA on all courses taken at UF beginning the semester after accumulating 60 credits.	3.75 GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of an approved research project or creative work and submission of an honors thesis based on that work.	3.85 GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of an approved research project or creative work and submission of an honors thesis based on that work.

Heavener School of Business

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.5 GPA in all UF, core and major courses.	3.7 GPA in all UF, core and major courses. Completion of 90 credits prior to enrolling in honors thesis course and completion of an approved thesis.	3.9 GPA in all UF, core and major courses. Completion of 90 credits prior to enrolling in honors thesis course and completion of an approved thesis.

M.E. Rinker, Sr. School of Construction Management

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.3 GPA in all upper-division courses.	3.6 GPA in all upper-division courses. Completion of an approved research project and formal presentation.	3.75 GPA in all upper-division courses. Completion of an approved research project and formal presentation.

College of Design, Construction and Planning

Architecture

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.3 GPA in all upper-division courses.	3.6 GPA in all upper-division courses. Completion of an approved fourth-year design project.	3.8 GPA in all upper-division courses. Completion of an approved fourth-year design project.

Interior Design

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.3 GPA in all upper-division courses.	3.6 GPA in all upper-division courses. Completion of an approved fourth-year design project.	3.8 GPA in all upper-division courses. Completion of an approved fourth-year design project.

Landscape Architecture

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.2 GPA in all upper-division courses.	3.5 GPA in all upper-division courses. Completion of an approved fifth-year design project.	3.75 GPA in all upper-division courses. Completion of an approved fifth-year design project.

Sustainability and the Built Environment

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.5 GPA in all upper-division courses.	3.65 GPA in all upper-division courses. Completion of an approved fourth-year project.	3.8 GPA in all upper-division courses. Completion of an approved fourth-year project.

College of Education

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.75 GPA on all courses taken at UF beginning the semester after accumulating 60 credits.	3.75 GPA on all courses taken at UF beginning the semester after accumulating 60 credits; submission of an approved scholarly project.	Not available.

Herbert Wertheim College of Engineering

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.3 GPA on all courses taken at UF beginning the semester after accumulating 60 credits.	3.5 GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of an approved research project or creative work.	3.8 GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Completion of an approved research project or creative work.

College of Health and Human Performance

All Majors Except Applied Physiology and Kinesiology

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.4 GPA on all courses taken at UF beginning the semester after accumulating 60 credits, excluding internship, flexible learning courses and extension courses.	3.7 GPA on all courses taken at UF beginning the semester after accumulating 60 credits, excluding internship, flexible learning courses and extension courses. Completion of a senior paper or creative project. Department recommends the distinction awarded.	3.7 GPA on all courses taken at UF beginning the semester after accumulating 60 credits, excluding internship, flexible learning courses and extension courses. Completion of a senior paper or a creative project or thesis. Department recommends the distinction awarded.

Applied Physiology and Kinesiology

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.4 GPA on all courses taken at UF beginning the semester after accumulating 60 credits, excluding internship, flexible learning courses and extension courses.	3.7 GPA on all courses taken at UF beginning the semester after accumulating 60 credits, excluding internship, flexible learning courses and extension courses.	3.7 GPA on all courses taken at UF beginning the semester after accumulating 60 credits, excluding internship, flexible learning courses and extension courses. Completion of a senior paper or a creative project or thesis. Department recommends the distinction awarded.

College of Journalism and Communications

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.5 GPA on all courses taken at UF beginning the semester after accumulating 60 credits (excluding internship) and professional courses.	3.6 GPA on all courses taken at UF beginning the semester after accumulating 60 credits (excluding internship) and professional courses. Submit evidence of professional competency based on student's area of study.	3.8 GPA on all courses taken at UF beginning the semester after accumulating 60 credits (excluding internship) and professional courses. Submit evidence of professional competency based on student's area of study.

College of Liberal Arts and Sciences

To graduate with honors, students must meet the college requirements for cum laude, magna cum laude or summa cum laude. Students will be granted magna or summa cum laude if they meet the college requirements AND the requirements specified by their major in the tables below.

College Requirements

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.50 or higher GPA on all courses taken at UF beginning the semester after accumulating 60 credits.	Eligible students must have a 3.50 or higher GPA on all courses taken at UF beginning the semester after accumulating 60 credits and completion of, and faculty evaluation of, a thesis, research project or other creative work. Distinction of magna or summa cum laude may be granted based on faculty evaluation of the thesis, and the department will make the determination whether and what level of distinction will be awarded.	Eligible students must have a 3.50 or higher GPA on all courses taken at UF beginning the semester after accumulating 60 credits and completion of, and faculty evaluation of, a thesis, research project or other creative work. Distinction of magna or summa cum laude may be granted based on faculty evaluation of the thesis, and the department will make the determination whether and what level of distinction will be awarded.

Major Requirements

Anthropology

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must register for three credits of ANT 4914 in their final semester and successfully complete and defend an honors thesis. Students must have an approved faculty mentor and signed thesis contract. Distinction of magna or summa cum laude is based on faculty committee evaluation of the thesis.	Student must register for three credits of ANT 4914 in their final semester and successfully complete and defend an honors thesis. Students must have an approved faculty mentor and signed thesis contract. Distinction of magna or summa cum laude is based on faculty committee evaluation of the thesis.

Astronomy

Cum Laude	Magna Cum Laude	Summa Cum Laude
	In addition, student must complete six credits of AST 4911 and write a thesis. A committee of at least three faculty members evaluates the thesis and makes a recommendation to the astronomy adviser regarding the level of honors awarded.	In addition, student must complete six credits of AST 4911 and write a thesis. A committee of at least three faculty members evaluates the thesis and makes a recommendation to the astronomy adviser regarding the level of honors awarded.

Biology

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Distinction of magna cum laude requires a 3.50 or higher GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Student must also complete the equivalent of at least six credits of approved undergraduate research (contact undergraduate coordinator), complete a thesis research project and submit a mentor-approved honors thesis. The undergraduate coordinator will review the thesis and submit a recommendation for approval or disapproval to the Biology Major Executive Committee.	Distinction of summa cum laude requires a 3.75 or higher GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Student must also complete the equivalent of at least six credits of approved undergraduate research (contact undergraduate Coordinator), complete a thesis research project and submit a mentor-approved honors thesis. The undergraduate coordinator will review the thesis and submit a recommendation for approval or disapproval to the Biology Major Executive Committee.

Botany

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete one semester (3-4 credits) of BOT 4911, complete a research project, and write a thesis.	Student must complete two semesters (6-8 credits) of BOT 4911, complete a research project, and write a thesis.

Chemistry

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete six credits of CHM 4910 and write a thesis. Distinction of magna or summa cum laude is based on both GPA and faculty evaluation of the thesis.	Student must complete six credits of CHM 4910 and write a thesis. Distinction of magna or summa cum laude is based on both GPA and faculty evaluation of the thesis.

Classical Studies

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must also write an honors thesis under supervision of a faculty mentor. Contact the Classics undergraduate adviser for more information.	Student must also write an honors thesis under supervision of a faculty mentor. Contact the Classics undergraduate adviser for more information.

Computer Science

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Requires two additional approved CISE courses.	3.80 GPA. Requires two additional approved CISE courses.

Criminology

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must defend a thesis and may enroll in CCJ 4970 or honors-focused courses for credit to write a thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.	Student must defend a thesis and may enroll in CCJ 4970 or honors-focused courses for credit to write a thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.

Economics

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must earn a 3.30 GPA for all UF economics courses, complete ECO 4935 or ECO 4905, and submit an acceptable thesis.	Student must earn a 3.70 GPA on all courses taken at UF the semester after accumulating 60 credits and a 3.50 GPA for all UF economics courses. Must also complete ECO 4935 or ECO 4905 and submit an acceptable thesis.

English

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must earn an A or B grade in at least one semester of ENG 4936 and a minimum grade of B + in ENG 4970.	Student must earn a minimum grade of B and at least one A in no fewer than two semesters of ENG 4936 and an A in ENG 4970.

Foreign Languages and Literatures

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Students must complete a thesis and receive approval of the completed project by two full-time faculty members (excluding adjunct faculty), one of whom must be affiliated with Languages, Literatures and Cultures and serve as the student's primary advisor. In consultation with the primary advisor, the student should identify the second faculty member no later than the mid-point of the semester. It is strongly recommended that the student complete up to 6 credits of 4911 in their area of specialization. (In the case of the Chinese and Japanese tracks, it is strongly recommended that the student complete up to 3 credits of CHI 4911/ CHT 4911 or CHW 4911 or JPN 4911/JPT 4911 or JPW 4911, prior to completing 3 credits of CHI 4935 or JPN 4935 (Senior Thesis).	Students must complete a thesis and receive approval of the completed project by two full-time faculty members (excluding adjunct faculty), one of whom must be affiliated with Languages, Literatures and Cultures and serve as the student's primary advisor. In consultation with the primary advisor, the student should identify the second faculty member no later than the mid-point of the semester. It is strongly recommended that the student complete up to 6 credits of 4911 in their area of specialization. (In the case of the Chinese and Japanese tracks, it is strongly recommended that the student complete up to 3 credits of CHI 4911/ CHT 4911 or CHW 4911 or JPN 4911/JPT 4911 or JPW 4911, prior to completing 3 credits of CHI 4935 or JPN 4935 (Senior Thesis).
	It is possible that a student may complete a thesis and not receive a magna or summa cum laude designation.	It is possible that a student may complete a thesis and not receive a magna or summa cum laude designation.
	Students must have earned an A or B in at least one semester of an approved 4911/4935 course. The distinction of magna cum laude is based on an evaluation of the thesis by the faculty advisor and second reader.	Students must have earned an A or B in at least one semester of an approved 4911/4935 course. Students' writing and research must be excellent, of nearly publishable quality. The distinction of summa cum laude is based on an evaluation of the thesis by the faculty advisor and second reader.

Geography

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must earn an A in GEO 4970 or GEO 4905 and submit an honors thesis. Distinction of magna or summa cum laude is based on evaluation of the thesis by a faculty adviser and a second reader.	Student must earn an A in GEO 4970 or GEO 4905 and submit an honors thesis. Distinction of magna or summa cum laude is based on evaluation of the thesis by a faculty adviser and a second reader.

Geology

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Students must complete two semesters of GLY 4911 with grades of B or higher and submit an honors thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.	Students must complete two semesters of GLY 4911 with grades of B or higher and submit an honors thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.

History

Cum Laude	Magna Cum Laude	Summa Cum Laude
	In the fall semester, student must pass the History Honors Seminar: Thesis Workshop while completing thesis research. Then, in the spring semester, student must enroll in HIS 4970 and write an acceptable thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis. Contact the undergraduate coordinator or history honors coordinator for information.	In the fall semester, student must pass the History Honors Seminar: Thesis Workshop while completing thesis research. Then, in the spring semester, student must enroll in HIS 4970 and write an acceptable thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis. Contact the undergraduate coordinator or history honors coordinator for information.

Interdisciplinary Studies

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student with a GPA of 3.5 or higher must be recommended by two members of the student's supervisory committee, including the principal supervisor, who will affirm that the student conducted an individual project in IDS 4906 (or equivalent). Distinction of magna or summa cum laude is based on faculty evaluation of the project.	Student with a GPA of 3.5 or higher must be recommended by two members of the student's supervisory committee, including the principal supervisor, who will affirm that the student conducted an individual project in IDS 4906 (or equivalent). Distinction of magna or summa cum laude is based on faculty evaluation of the project.

Jewish Studies

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must enroll in JST 4970 and complete an honors project. Distinction of magna or summa cum laude is based on faculty evaluation of the project.	Student must enroll in JST 4970 and complete an honors project. Distinction of magna or summa cum laude is based on faculty evaluation of the project.

Linguistics

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete at least three credits of LIN 4905, followed by LIN 4970. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.	Student must complete at least three credits of LIN 4905, followed by LIN 4970. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.

Mathematics

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must write a thesis that fulfills the department's honors standards.[1]	Student must satisfy the B.S. degree requirements and write a thesis that fulfills the department's honors standards.[1]

[1] More Info (https://math.ufl.edu/mathematics-major)

Microbiology and Cell Science

Cum Laude	Magna Cum Laude	Summa Cum Laude
	3.75 GPA. Student must have grade of S in at least four credits of MCB 4911, MCB 4915 or other department undergraduate research course previously approved.	3.85 GPA. Student must have grade of S in at least four credits of MCB 4911, MCB 4915 or other department undergraduate research course previously approved.

Philosophy

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete an honors thesis while enrolled in PHI 4912. A formal proposal must be submitted the semester prior to that during which the student writes the thesis. Upon completion, the thesis is reviewed by the department's undergraduate committee, which also conducts an oral examination. The undergraduate coordinator, in consultation with that committee, will determine the distinction awarded.[1]	Student must complete an honors thesis while enrolled in PHI 4912. A formal proposal must be submitted the semester prior to that during which the student writes the thesis. Upon completion, the thesis is reviewed by the department's undergraduate committee, which also conducts an oral examination. The undergraduate coordinator, in consultation with that committee, will determine the distinction awarded.[1]

[1] More Info (http://www.phil.ufl.edu/ugrad/ugrad-major.html)

Physics

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete and defend a thesis to graduate magna or summa cum laude. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis and an oral presentation by the student.	Student must complete and defend a thesis to graduate magna or summa cum laude. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis and an oral presentation by the student.

Political Science

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete POS 4734, POS 4934 and POS 4970 in order to complete an honors thesis. The program requires a minimum of two semesters of coursework and research. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.	Student must complete POS 4734, POS 4934 and POS 4970 in order to complete an honors thesis. The program requires a minimum of two semesters of coursework and research. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.

Portuguese

Cum Laude	Magna Cum Laude	Summa Cum Laude
Refer to the general CLAS honors information.	Refer to the general CLAS honors information.	Refer to the general CLAS honors information.

Psychology

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete and defend a thesis while taking at least one credit of PSY 4970. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.	Student must complete and defend a thesis while taking at least one credit of PSY 4970. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.

Religion

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete REL 4932. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.	Student must complete REL 4932. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.

Sociology

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete a senior honors thesis while taking SYA 4931. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.	Student must complete a senior honors thesis while taking SYA 4931. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.

Spanish

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete and defend a thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.	Student must complete and defend a thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.

Statistics

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must write a thesis that fulfills the standards as specified in the department's honors guidelines.[1]	Student must satisfy the B.S. degree requirements and write a thesis that fulfills the standards as specified in the department's honors guidelines.[1]

[1] More Info (http://www.stat.ufl.edu/~athienit/honors_guidelines.pdf)

Sustainability Studies

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete a thesis, which may be written for independent study credit in the primary supervisor's department (but not for cluster credit). The student, in consultation with the director, must secure primary and secondary faculty supervisors associated with the major (one from CLAS). Distinction of magna cum laude will be given upon recommendation of both supervisors after evaluation of the thesis. Distinction of summa cum laude will be given upon recommendation of both supervisors and an oversight board reader, designated by the director, after evaluation of the thesis.	Student must complete a thesis, which may be written for independent study credit in the primary supervisor's department (but not for cluster credit). The student, in consultation with the director, must secure primary and secondary faculty supervisors associated with the major (one from CLAS). Distinction of magna cum laude will be given upon recommendation of both supervisors after evaluation of the thesis. Distinction of summa cum laude will be given upon recommendation of both supervisors and an oversight board reader, designated by the director, after evaluation of the thesis.

Women's Studies

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must enroll in WST 4970 and complete an honors thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.	Student must enroll in WST 4970 and complete an honors thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.

Zoology

Cum Laude	Magna Cum Laude	Summa Cum Laude
	Student must complete at least six credits of ZOO 4911, BSC 4910, BSC 4912, or BOT 4911, complete a thesis research project and submit an honors thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.	Student must complete at least six credits of ZOO 4911, BSC 4910, BSC 4912, or BOT 4911, complete a thesis research project and submit an honors thesis. Distinction of magna or summa cum laude is based on faculty evaluation of the thesis.

School of Natural Resources and Environment

Cum Laude	Magna Cum Laude	Summa Cum Laude
Refer to the College of Agricultural and Life Sciences.	Refer to the College of Agricultural and Life Sciences.	Refer to the College of Agricultural and Life Sciences.

College of Nursing

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.70-3.79 GPA in all upper-division nursing courses.	3.80-3.89 GPA in all upper-division nursing courses.	3.90-4.00 GPA in all upper-division nursing courses.
Students in all honors distinctions must satisfactorily complete the honors program.	Students in all honors distinctions must satisfactorily complete the honors program.	Students in all honors distinctions must satisfactorily complete the honors program.

College of Pharmacy

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.50 or higher GPA in required pharmacy courses and completion of all pharmacy coursework in the Doctor of Pharmacy curriculum.	3.60 - 3.79 GPA in required pharmacy courses and completion of all pharmacy coursework in the Doctor of Pharmacy curriculum. In addition, student must complete a project, submit a report and make a presentation via adherence to College of Pharmacy guidelines. Student must also be approved by the supervisor, the supervisor's department chair and the Graduate Studies Council.	3.80 or higher GPA in required pharmacy courses and completion of all pharmacy coursework in the Doctor of Pharmacy curriculum. In addition, student must complete a project, submit a report and make a presentation via adherence to College of Pharmacy guidelines. Student must also be approved by the supervisor, the supervisor's department chair and the Graduate Studies Council.

College of Public Health and Health Professions

Cum Laude	Magna Cum Laude	Summa Cum Laude
3.5 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits.	3.75 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Successful completion of HSC 4969 and 4970 including research poster presentation and thesis, or SPA 4931 including thesis and depending on BHS major, and no student conduct or honor code violations. Dean's review of thesis designates honors level.	3.85 upper-division GPA on all courses taken at UF beginning the semester after accumulating 60 credits. Successful completion of HSC 4969 and 4970 including research poster presentation and thesis, or SPA 4931 including thesis and depending on BHS major, and no student conduct or honor code violations. Dean's review of thesis designates honors level.

Academic Terminology

| A (p. 1395) | B (p. 1395) | C (p. 1395) | D (p. 1396) | E (p. 1396) | F (p. 1396) | G (p. 1397) | H | I (p. 1397) | J | K | L (p. 1397) | M (p. 1397) | N | O (p. 1397) | P (p. 1398) | Q | R (p. 1398) | S (p. 1398) | T (p. 1398) | U (p. 1399) | V | W (p. 1399) | X | Y | Z |

A

- **A.A. Degree**
  Associate of Arts degree, awarded upon satisfactory completion of 60 credits (at least 36 at UF) with an overall C (2.0) average, including general education requirements, foreign language competency, and the writing requirement.
  More Info (p. 1429)

- **Academic Learning Compact (ALC)**
  UF's definition for each major of the minimum communication skills, critical thinking skills and content knowledge appropriate for that major.

- **Academic Year**
  The annual cycle of academic terms: Summer B, Fall, Spring, Summer A, Summer C.
  More Info (p. 1442)

- **Admission Requirements**
  The necessary minimum criteria every applicant must have to be admitted to UF. Many majors have additional requirements for admission as a junior.
  More Info (p. 15)

- **Admitted**
  Term used to describe students who have applied and have been accepted to the university in a degree-seeking status. Admission is not validated until the student registers for and attends classes.
  More Info (p. 15)

- **Audit**
  Permission to attend and to participate in a course without benefit of a grade or credit. Continuing education units (CEUs) may be awarded at the discretion of the instructor.
  More Info (p. 1440)

B

- **Baccalaureate**
  Bachelor's degree, the traditional undergraduate degree. B.A. is the Bachelor of Arts degree and B.S. is the Bachelor of Science degree. It is awarded upon satisfactory completion of at least 120 credits with an overall C (2.0) average.

C

- **Calendar, University**
  An annual publication listing all official dates and deadlines for the academic year.
  More Info (p. 1442)

- **Catalog Year**
  The year during which the regulations published in a specific edition of the undergraduate catalog apply. A student's catalog year determines their academic requirements for completing a degree based upon the requirements published in the catalog in effect at the time the student begins degree-seeking enrollment.
  More Info (p. 1429)

- **Certificate**
  An organized concentration of study in an approved subject area. University-approved certificate programs began appearing on the student transcript in Spring 2012. Non-university approved certificate programs are not recognized on a student transcript although individual courses are reflected.
  More Info (p. 1379)
- **Classification/College**
  A code indicating a student's academic level (year) and college affiliation.
  More Info (p. 1441)
- **Combined Degrees**
  An accelerated program that allows students to count 12 graduate credits toward their undergraduate degree.
  More Info (http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees)
- **Common Course Numbering System**
  A statewide system of course prefixes and numbers developed to facilitate the transfer of credit by identifying equivalent courses.
  More Info (http://scns.fldoe.org)
- **Continuing Education Unit (CEU)**
  Courses taken to maintain licensure in professions that require a state or professional board license.
- **Continuous Enrollment**
  Undergraduate students who enroll for at least one course in one term in an academic year are continuously enrolled.
  More Info (p. 1429)
- **Corequisite**
  Two courses that must be taken concurrently.
- **Course Sequence**
  The specified order of enrollment for a series of courses; e.g., SPN 1130, SPN 1131, SPN 2200, SPN 2201.
- **Credit**
  Every course taught is designated a total number of credits. The number of credits for a class reflects approximately the total hours a student spends per week in class.
- **Critical Tracking Criteria**
  The courses required for entry to a major; these courses are in bold or otherwise noted in the undergraduate catalog and on the degree audit.
  More Info (p. 1379)
- **Cum Laude**
  Graduating with honors.
  More Info (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

D

- **Deficit Record**
  A combination of UF cumulative credits and UF cumulative grade point average, where the UF cumulative GPA falls below a 2.0.
  More Info (p. 1425)
- **Degree Audit**
  A computerized evaluation of a student's progress towards completion of a degree. See ONE.UF.
  More Info (https://one.uf.edu/dashboard)
- **Dismissal**
  Students with a grade point deficit of 15 or more will be placed on academic dismissal and will not be permitted further registration at UF.
  More Info (p. 1425)
- **Distance Learning**
  Online courses that are administered through an e-learning delivery system.
  More Info (p. 1413)
- **Drop**
  To drop a single course from a given term after the drop/add period. Students are liable for fees for a dropped course and a W is posted to the student's transcript.
  More Info (p. 1430)
- **Drop/Add**
  A period of time beginning with the first day of classes when students can adjust schedules by dropping or adding courses or changing sections of a course. Courses dropped by 11:59 p.m. on the last day of drop/add are not subject to fees.
  More Info (p. 1430)
- **Dual Enrollment**
  Simultaneous registration at two educational institutions.
  More Info (p. 1407)

E

- **Early Admission**
  Admission as a freshman following completion of the junior year of high school.
  More Info (p. 16)
- **Electives**
  Any course not required as part of a student's degree requirements.
- **Enrollment**
  Registration for coursework and payment of fees constitutes official enrollment.
- **Excess Hours**
  Credits exceeding a state-specified threshold of the degree requirements. Additional tuition is assessed for credits exceeding this threshold.
  More Info (p. 1431)

F

- **FERPA**
  The Family Educational Rights and Privacy Act, which affords students certain rights with respect to their education records.
  More Info (p. 1436)
- **Flexible Learning**
  Division of Continuing Education course offerings. Consult the college dean's office for restrictions and limitations.
  More Info (p. 1413)

G

- **GatorLink**
  A student's computer identity at UF, which consists of a username and password to allow access to secure UF sites. It also includes official UF email service, usually in the format of username@ufl.edu. All students are required to sign up for a GatorLink account and email service because official university communications are sent to this email address.
  More Info (p. 1452)

- **Gator 1 Card**
  UF's official university photo identification. All enrolled students must have a university ID card.
  More Info (p. 1452)

- **General Education Requirement**
  University-wide requirement of basic studies that form the foundation of all undergraduate degree programs.
  More Info (p. 21)

- **Good Standing**
  Eligible to continue to register for university coursework.
  More Info (p. 1425)

- **Grade Point Average (GPA)**
  The ratio of grade points earned to semester credits carried. The UF GPA is computed on University of Florida coursework only. The UF GPA is displayed to the hundredths place and not rounded up (i.e. 3.528 = 3.52).
  More Info (p. 1438)

- **Grade Points**
  The number of points attributed to a grade (A=4, B=3, etc.) times the number of credits in the course.
  More Info (p. 1438)

- **Graduate Student**
  A student who has earned a baccalaureate degree and who has been admitted to the Graduate School to pursue a graduate degree program (master's, specialist, engineer, doctorate).
  More Info (http://www.graduateschool.ufl.edu)

- **Graduation Requirements**
  University-wide, college- and major-specific requirements that must be met for graduation from UF.
  More Info (p. 1429)

I

- **Individual Students Assessments (ISA)**
  The different ways in which UF will measure whether students have successfully completed the learning outcomes for a particular major. These may include a passing score on a particular test, a final project, term paper, portfolio and so on.

- **Innovation Academy (IA)**
  Innovation Academy, a unique undergraduate program experience, creates a small-college experience that focuses on delivering innovation, creativity, entrepreneurship, ethics, and leadership. IA students take courses on campus during the spring and summer, leaving the fall term free for online courses, study abroad, internships, research, community service, and/or employment. IA students follow this spring-summer on campus schedule throughout their entire degree program.
  More Info (http://innovationacademy.aa.ufl.edu)

L

- **Learning Outcomes**
  What students are expected to learn by completing a particular major.
  More Info

M

- **Magna Cum Laude**
  Graduating with high honors.
  More Info (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

- **Major**
  A subject of academic study chosen as a field of specialization.
  More Info (p. 1378)

- **Matriculation**
  Initial term of enrollment and attendance at UF. Can be as an admitted, degree-seeking student or as a non-degree student.

- **Medical Withdrawal**
  Student drops all courses in a given term based on medical documentation. Fees for the semester will be refunded if a successful petition is filed within six months of given term.
  More Info (https://care.dso.ufl.edu/medical-withdrawal-process)

- **Minor**
  An officially recognized secondary concentration of study in an approved subject area, consisting of at least 15 credits of appropriate coursework. Minors are optional.
  More Info (p. 1379)

O

- **Ombuds**
  The university ombuds assists all members of the university community to solve problems and conflicts. They will listen, discuss issues, answer questions, interpret policies, provide information and referrals, and help develop options for problem resolution. The ombuds serves as an advocate for fairness for all members of the university community.
  More Info (p. 1425)

- **On-track or Off-track**
  On-track refers to students who are meeting progress requirements each term, according to their majors' critical tracking plans. Off-track refers to students who are not meeting their degree requirements each term.
  More Info (p. 1425)

- **ONE.UF**
  Enables students to access and manage their records online.
  More Info (https://one.uf.edu)

- **Overall GPA**
  Cumulative GPA of UF coursework. GPA's are displayed to the hundredths place and not rounded up.
  More Info (p. 1438)

P

- **PaCE: Pathway to Campus Enrollment**
  PaCE offers degree programs through a combination of online and residential or campus-based learning options.
  More Info (http://www.admissions.ufl.edu/pace)

- **Permanent Academic Record**
  The complete list of a student's courses attempted, grades and credit earned, degrees awarded and any other pertinent academic information.

- **Petition**
  A written request seeking a waiver of or an exception to a university regulation, policy or deadline. Petitions may be considered if the circumstances are beyond the student's control.
  More Info (p. 1425)

- **Postbaccalaureate**
  A student who has earned a baccalaureate degree and been admitted for continued study but who has not been admitted as a graduate or professional student.

- **Preprofessional GPA**
  The grade point average achieved in the specific courses required for admission to a major; these courses generally are completed in the first two years of study and the required GPA is often higher than 2.0.

- **Prerequisite**
  A condition that must be met to establish eligibility to enroll in a program or course.

- **Prerequisite Courses**
  The courses students must take and successfully complete before they can enroll in a subsequent course.

- **Probation, Academic**
  Any undergraduate with less than a 2.0 cumulative UF GPA shall be placed on academic probation while a grade point deficit exists. Refer to deficit points.
  More Info (p. 1425)

- **Professional Student**
  A student who is admitted to pursue a Doctor of Dental Medicine, Juris Doctor, Doctor of Medicine, Doctor of Nursing Practice, Doctor of Pharmacy, Doctor of Physical Therapy, Physician Assistant or Doctor of Veterinary Medicine degree.

R

- **Readmission**
  The procedure for a previously enrolled UF student to re-enroll in a degree-seeking status after a break in enrollment of more than one term; a readmission fee is required.
  More Info (p. 19)

- **Registration**
  The process by which a student officially selects and enrolls in university coursework.
  More Info (p. 1440)

- **Residence**
  A student's tenure within the university and/or a specific college or school in campus-based learning opportunities.
  More Info (p. 1429)

- **Residency**
  Classification of students as Florida residents or non-Florida residents for tuition purposes.
  More Info (p. 19)

S

- **Schedule Adjustment**
  A period of time following registration before the beginning of classes when students can adjust their course schedules.

- **Schedule of Courses**
  A listing of courses offered by semester.
  More Info (https://registrar.ufl.edu/soc)

- **Semester**
  A standard academic term (fall, spring or summer). Refer to term.
  More Info (p. 1442)

- **Student**
  Any individual who is attending or has attended a postsecondary educational agency or institution that maintains academic records.

- **Specialization**
  A detailed set of courses and/or semester plan for graduation for an emphasis of study within a major.

- **Student Learning Outcomes (SLOs)**
  What students are expected to learn by completing a particular major.

- **Summa Cum Laude**
  Graduating with highest honors.
  More Info (http://catalog.ufl.edu/UGRD/academic-programs/academic-honors/#graduatingwithhonorstext)

- **S/U Option**
  A provision by which a student may elect, with college approval, to enroll in a course, the grade for which is not computed in the grade point average. Grades awarded are S (satisfactory) or U (unsatisfactory). The S grade is equivalent to a grade of C (2.0) or better.
  More Info (p. 1438)

- **SUS**
  The State University System of Florida. The University of Florida is one of the state-supported universities and colleges in the SUS.
  More Info (http://www.flbog.edu)

T

- **Term**
  A period of instruction. During the fall and spring, the term is a standard 16-week semester. During the summer, various shorter length periods of instruction are offered: Summer A and Summer B are six-week terms; Summer C is a 12-week term.
  More Info (p. 1442)

- **Textbook Adoption**
  The process by which textbook requirements are submitted by faculty and displayed online for students to see and to purchase for their courses.

- **Transcript**
  An official copy of the student's complete coursework, grades, credit and degrees earned at the University of Florida.
  More Info (https://registrar.ufl.edu/services/transcripts.html)

- **Transfer Credit**
  Coursework completed at another institution that is accepted at the University of Florida and which may be applicable toward a specific major, minor or degree.
  More Info (p. 18)

- **Transient Student**
  A student of another accredited institution who receives permission to register (for one term) as a non-degree-seeking student to earn credit to transfer back to their parent institution.

U

- **UFID**
  A unique eight-digit number that serves as the primary identifier for all university records and transactions. No two people have the same number and each person has only one UFID.
  More Info (p. 1452)

- **UF Online**
  Bachelor degrees and minors offered exclusively through distance learning.
  More Info (http://ufonline.ufl.edu)

- **Unit**
  An alternate term for credit. One unit equals one credit.

- **Universal Tracking System and Audits**
  UF's academic monitoring system, feature semester-by-semester plans for each major.
  More Info (p. 1379)

W

- **What-If Report**
  Exploring possible majors to determine a student's interest and to estimate whether the coursework they have completed meets any of the degree requirements for a specific major.

- **Withdraw**
  To drop all courses for a given term. Students are liable for fees and a grade of W will appear on the transcript for each course.
  More Info (p. 1430)

- **Writing Requirement**
  The University of Florida requires all students to complete courses that involve substantial writing for a total of 24,000 words. Courses are identified by category in the schedule of courses.
  More Info (p. 1421)

Accelerated Degrees

College of Dentistry's Honors Combined B.S./D.M.D. Program

Incoming freshmen who intend to pursue a career in dentistry can, through a cooperative agreement between the College of Agricultural and Life Sciences and the College of Dentistry, qualify for provisional admission to the preprofessional program leading to the D.M.D. This honors program helps highly motivated students complete a B.S. degree in Nutritional Sciences or Microbiology and Cell Science and the D.M.D. degree.
More Info (http://dental.ufl.edu/admissions/dmd-program/honors-combined-bs-dmd-program)

Admission Criteria (http://dental.ufl.edu/admissions/dmd-program/honors-combined-bs-dmd-program)
Contact: 352.273.5955

Junior Honors Medical Program

An accelerated path to medical school. Students apply to this highly competitive program in the second semester of the second year of undergraduate study. If selected, they begin coursework for medical school in the third year and enter the M.D. program in the fourth year. After completion of the first year of medical school, students earn their B.S. degrees.
More Info (http://jhmp.med.ufl.edu)

Admission Criteria: Apply during sophomore year
Contact: Email (med-admissions@ufl.edu); 352.273.7990

Master of Agribusiness (MAB)

A professional degree for students who desire careers in marketing and management in agriculture, food processing and distribution, forest products and related industry where there has been strong demand for MAB graduates. Offered by the Department of Food and Resource Economics (FRE), the MAB can be completed in three semesters (fall, spring and summer). A bachelor's degree in economics or business is not required.
More Info (http://www.fred.ifas.ufl.edu/graduate/mab)

Admission Criteria: Competitive GRE or GMAT score; 3.0 upper-division GPA
Contact: Email (fregradprogram@ifas.ufl.edu)

Master of Science in Management (MSM)

Provides non–business majors with the opportunity to combine the knowledge gained from other academic disciplines with functional business applications to create a dynamic skill set that is in demand by employers.
More Info (https://warrington.ufl.edu/master-of-science-in-management)

Admission Criteria: Refer to Web site for next information session.
Contact: Email (msm@cba.ufl.edu); 352.273.0344.

Master of Public Health

This degree offers diverse career opportunities, including identifying and tracking biohazards, keeping communities safe, investigating disease outbreaks, creating community health promotion programs and measuring the impact of health policy on access to care.

More Info (http://mph.ufl.edu)

Students are admitted to one of six concentrations:

- biostatistics
- environmental health
- epidemiology
- public health management and policy
- public health practice
- social and behavioral sciences

Admission Criteria: 1000 GRE and a 3.0 GPA for last 60 hours of undergraduate coursework.
Contact: Email (shanson@phhp.ufl.edu); 352.273.6379

Combined Degrees

The Combined Degree program allows undergraduate students who qualify academically to obtain both a bachelor's and master's degree. Minimum qualifications for many programs include a 3.2 GPA and a competitive GRE score for admission to graduate school.

Combined degree programs allow students to get a head start on their graduate education by taking graduate courses throughout the junior and senior undergraduate years. In most programs, 12 credit hours of graduate work will also count toward an undergraduate degree, thus reducing the time it takes to get both degrees. Students should consult their department advisors to determine whether the department offers combined-degree programs and whether they qualify.

There are a number of financial considerations to keep in mind. Students are responsible for paying the difference between undergraduate and graduate tuitions. Florida Prepaid College Tuition Program participants will receive funding for the first 120 credit hours. The program will fund graduate courses taken toward the undergraduate degree at the undergraduate level. Financial aid may be available to assist with the graduate degree portion of the program.

Advantages

- Qualified students can obtain an undergraduate and a graduate degree in much less time than two separate degrees.
- The cost of both degrees is reduced, since at least 12 credits apply toward both degrees.
- Students have time to decide whether to pursue further graduate or professional study.
- A student's marketability is greatly enhanced; many professions now require a master's degree for entry-level positions.

Combined Degrees by College

Accounting, Fisher School of

Accounting | 3/2 MAcc/BSAc

Non-thesis only

This is an integrated, five-year, 150-hour program that leads to the joint award of a Bachelor of Science in Accounting and a Master of Accounting. Students may pursue a general accounting curriculum, or select an auditing or taxation concentration. This program is for students seeking a professional accounting career. Completion fulfills the state's requirements to take the CPA examination to practice in Florida.

Admission Criteria

Contact: 352.273.0200 | Email (FSOA@warrington.ufl.edu)
More Info (https://warrington.ufl.edu/3-2-bsac-macc)

Agricultural and Life Sciences, College of

Agricultural Education and Communication | BS/MS

Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: Email (nstedman@ufl.edu)
More Info (http://aec.ifas.ufl.edu/undergraduate)

Agricultural Operations Management | BS/MS

Admission Criteria: Competitive GRE score; 3.3 GPA
Contact: 352.392.1864 ext. 116 | Email (rsnyder@ufl.edu)
Overlapping Credits: 12
More Info (http://www.abe.ufl.edu/academics/undergraduate/ag-op-management-major.shtml)

Animal Sciences | BS/MS

Admission Criteria: Competitive GRE score; junior or senior status; 3.2 GPA
Contact: 352.392.7527 | Email (raluca@ufl.edu)
More Info (http://www.animal.ufl.edu/teaching/indexteaching.shtml)

Biology/Biochemistry and Molecular Biology | BS/MS

Students must identify a College of Medicine faculty member who will serve as their graduate faculty advisor. A written agreement must be approved by both the Undergraduate Coordinator in the Department of Biology and the Graduate Coordinator in the College of Medicine. To count toward the MS degree, courses much be graduate level and letter-graded.

Admission Criteria: 3.2 cumulative GPA, 3.3 upper division GPA, completion of all critical-tracking requirements in the Biology B.S. degree, completion of at least three semester hours of mentored research (e.g., through BSC 4910 and BSC 4912) or equivalent research experience, and completion of BCH4024 (or equivalent).
Contact: 352.392.1521 | Email (http://catalog.ufl.eduMAILTO:bioadvising@advising.ufl.edu)
Overlapping Credits: 12
More info (https://biology.ufl.edu/undergraduates/undergraduate-combined-degree-program-offerings)

Biology/Botany | BS/MS

Students must identify a Department of Biology faculty member who will serve as their graduate faculty advisor. A written agreement must be approved by both the Undergraduate Coordinator and Graduate Coordinator in the Department of Biology. To count toward the MS degree, courses much be graduate level and letter-graded.

Admission Criteria: 3.2 cumulative GPA, 3.3 upper division GPA, completion of all critical-tracking requirements in the Biology B.S. degree, and completion of at least three semester hours of mentored research (e.g., through BSC 4910 and BSC 4912) or equivalent research experience.
Contact: 352.392.1521 | Email (http://catalog.ufl.eduMAILTO:bioadvising@advising.ufl.edu)
Overlapping Credits: 12
More info (https://biology.ufl.edu/undergraduates/undergraduate-combined-degree-program-offerings)

Biology/Medical Sciences | BS/MS

Students must identify a College of Medicine faculty member who will serve as their graduate faculty advisor. A written agreement must be approved by both the Undergraduate Coordinator in the Department of Biology and the Graduate Coordinator in the College of Medicine. To

count toward the MS degree, courses much be graduate level and letter-graded.

Admission Criteria: 3.2 cumulative GPA, 3.3 upper division GPA, completion of all critical-tracking requirements in the Biology B.S. degree, completion of at least three semester hours of mentored research (e.g., through BSC 4910 and BSC 4912) or equivalent research experience, and completion of BCH4024 (or equivalent) for the Genetics Track or Microbiology Track.
Contact: 352.392.1521 | Email (http://catalog.ufl.eduMAILTO:bioadvising@advising.ufl.edu)
Overlapping Credits: 12
More info (https://biology.ufl.edu/undergraduates/undergraduate-combined-degree-program-offerings)

Biology/Zoology | BS/MS

Students must identify a Department of Biology faculty member who will serve as their graduate faculty advisor. A written agreement must be approved by both the Undergraduate Coordinator and Graduate Coordinator in the Department of Biology. To count toward the MS degree, courses much be graduate level and letter-graded.

Admission Criteria: 3.2 cumulative GPA, 3.3 upper division GPA, completion of all critical-tracking requirements in the Biology B.S. degree, and completion of at least three semester hours of mentored research (e.g., through BSC 4910 and BSC 4912) or equivalent research experience.
Contact: 352.392.1521 | Email (http://catalog.ufl.eduMAILTO:bioadvising@advising.ufl.edu)
Overlapping Credits: 12
More info (https://biology.ufl.edu/undergraduates/undergraduate-combined-degree-program-offerings)

Entomology and Nematology | BS/MS

Admission Criteria: Competitive GRE score; 3.5 GPA
Contact: 352.273.3913 | Email (hjmca@ufl.edu) or 352.273.3974 | Email (baldwinr@ufl.edu)
Overlapping Credits: 12
More Info (http://entnemdept.ufl.edu/academics/About_Us.html)

Family, Youth and Community Sciences | BS/MS and BS/MFYCS

Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.273.3514 | Email (ghenderschiedt@ufl.edu)
Overlapping Credits: 12
More Info (http://fycs.ifas.ufl.edu)

Fisheries and Aquatic Sciences | BS/MS or MFAS

BS Degree in Another Discipline
Students must find a Fisheries and Aquatic Sciences faculty member to serve as their graduate faculty advisor. A written agreement must be approved by both the undergraduate and future graduate academic advisor. To count for the MS or MFAS degree, FAS courses must be taken at the graduate level.
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.846.0847 | Email (khaselier@ufl.edu)
Overlapping Credits: 12
More Info (http://sfrc.ufl.edu/fish/degreeprograms/graduate)

Food and Resource Economics | BS/MS

Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: Email (jherman@ufl.edu)
Overlapping Credits: up to 15 credit hours. Specific courses will be determined by the undergraduate and graduate program offices.
More Info (http://www.fred.ifas.ufl.edu/graduate)

Forest Resources and Conservation | BSFRC/MFRC or MS

Students must find a Forest Resources & Conservation faculty member to serve as their graduate faculty advisor. A written agreement must be approved by both the undergraduate and future graduate academic advisors. To count for the MS or MFRC degree, FOR/FNR courses must be taken at the graduate level.
Admission Criteria: Competitive GRE score; 3.0 GPA
Contact: 352.846.0847 | Email (khaselier@ufl.edu)
Overlapping Credits: 12
More Info (http://www.sfrc.ufl.edu/gradprograms.html)

Geomatics | BS/MFRC or MS

Students must find a Geomatics faculty member to serve as their graduate faculty advisor. A written agreement must be approved by both the undergraduate and future graduate academic advisor. To count for the MS or MFRC degree, GIS/SUR courses must be taken at the graduate level.
Admission Criteria: Competitive GRE score; 3.0 GPA
Contact: 352.8460847 | Email (khaselier@ufl.edu)
Overlapping Credits: 12
More Info (http://sfrc.ufl.edu/geomatics/degreeprograms/graduate)

Horticultural Sciences | BS/MS

Students must find a Horticultural Sciences faculty member to serve as their graduate faculty advisor. A written agreement must be approved by both the undergraduate and future graduate academic advisor.
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.273.4847 | Email (brath@ufl.edu)
Overlapping Credits: 12

Interdisciplinary Studies, Marine Sciences | BS/MFAS or MS

Students must find a Fisheries and Aquatic Sciences faculty member to serve as their graduate faculty advisor. A written agreement must be approved by both the undergraduate and future graduate academic advisor. To count for the MS or MFAS degree, FAS courses must be taken at the graduate level.
Admission Criteria: Competitive GRE score; 3.0 GPA
Contact: 352.846.0847 | Email (wkhaselier@ufl.edu)
Overlapping Credits: 12

Microbiology and Cell Science | 4/1 BS/MS

The program is a 4/1 program because students may be awarded both a B.S. and an M.S. (non-thesis) within a five-year period. This program is offered by the College of Agricultural and Life Sciences, but students majoring in microbiology and cell science in the College of Liberal Arts and Sciences are also eligible.
Admission Criteria: Competitive GRE score; 3.2 GPA on all upper-division courses
Contact: Email (jpreston@ufl.edu)
Overlapping Credits: 12
More Info (http://microcell.ufl.edu)

Natural Resource Conservation | BSFRC/MFRC, MFAS or MS

Students must find a School of Forest Resources & Conservation faculty member to serve as their graduate faculty advisor. A written agreement must be approved by both the undergraduate and future graduate academic advisors. To count for the MS or MFRC degree, FOR/FNR courses must be taken at the graduate level.
Admission Criteria: Competitive GRE score; 3.0 GPA
Contact: 352.846.0847 | Email (khaselier@ufl.edu)
Overlapping Credits: 12
More Info (http://sfrc.ufl.edu/academics/graduate)

Plant Science and Plant Pathology | BS/MS
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: Email (jbjones@ufl.edu)
Overlapping Credits: 12
More Info (http://plantpath.ifas.ufl.edu)

Soil and Water Science | BS/MS
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.392.1951 ext. 254 | Email (maxtep@ufl.edu)
Overlapping Credits: 12
More Info (http://soils.ifas.ufl.edu/academics/degrees-combined.shtml)

Wildlife Ecology and Conservation | BS/MS
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.846.0633 | Email (ccwillia@ufl.edu)
Overlapping Credits: 12
More Info (http://wec.ufl.edu/undergrad/combo_degree.php)

Arts, College of the

BM in Music and MA in Arts in Medicine
Arts in Medicine is a diverse, multidisciplinary and rapidly expanding field dedicated to transforming health and the healthcare experience through the arts. Today, artists are working at approximately half of hospitals in the US, as well as in community programs that enhance health and wellbeing.

The Bachelor of Music and Master of Arts in Arts in Medicine Combined Program allows students to begin completing requirements towards a master's degree (MA) in Arts in Medicine while completing their undergraduate degree (BM) in music. The degree is suitable for student who wish to explore the intersections between music and health or to pursue careers that integrate the two disciplines.
Admission Criteria: Completed GRE; 3.2 GPA on all upper-division courses
Contact: Email (camadmissions@arts.ufl.edu)
Overlapping Credits: 12
More Info (https://arts.ufl.edu/academics/center-for-arts-in-medicine/programs/arts-in-medicine/ways-to-study)

BS Pre-Health and MA in Arts in Medicine
Arts in Medicine is a diverse, multidisciplinary and rapidly expanding field dedicated to transforming health and the healthcare experience through the arts. Today, artists are working at approximately half of hospitals in the US, as well as in community programs that enhance health and well being.

The Bachelor of Science and Master of Arts in Arts in Medicine Combined Program allows pre-health students (majoring in Public Health, Biology, Microbiology, Chemistry or Psychology) to begin completing requirements towards a master's degree (MA) in Arts in Medicine while completing their undergraduate degree (BS/BAS).
Admission Criteria: Completed GRE; 3.2 GPA on all upper-division courses
Contact: Email (camadmissions@arts.ufl.edu)
Overlapping Credits: 12
More Info (https://arts.ufl.edu/academics/center-for-arts-in-medicine/programs/arts-in-medicine/ways-to-study)

Business, Warrington College of

Business Administration, Major in Entrepreneurship | MSE
Through a stimulating curriculum and transformational experiential learning opportunities, this one-year, intensive program equips promising entrepreneurs with the skills and savvy to plan, launch and sustain innovative ventures on their terms.
Admission Criteria: Adequate GMAT score; 3.2 minimum GPA
Contact: 352.273.0337 | Email (MSE@warrington.ufl.edu)
Overlapping Credits: 2-10
More Info (https://warrington.ufl.edu/undergraduate-academics/combined-degrees)

Business Administration, Major in Management | MSM
This degree provides nonbusiness majors the opportunity to combine knowledge from other academic disciplines with functional business applications to create a dynamic skillset in demand by employers in business and nonbusiness industries.
Admission Criteria: Competitive GMAT or GRE score; 3.2 minimum GPA
Contact: 352.273.0344 | Email (jane.mcnulty@warrington.ufl.edu)
Overlapping Credits: 2-12
More Info (https://warrington.ufl.edu/undergraduate-academics/combined-degrees)

Finance, Master of Science | MSF
Students have the opportunity to study finance at the second-year MBA level. Courses cover nearly all areas of finance, including derivative securities, fixed income markets, equity valuation, international finance and real estate finance. With early application students can receive their undergraduate and graduate degrees in four years. The best time to apply is two years before the undergraduate degree would be received.
Admission Criteria: 465 GMAT (650+ average); 3.0 GPA (3.5+ average)
Contact: 352.392.9249 | Email (kelly.herring@warrington.ufl.edu)
Overlapping Credits: 2-12
More Info (https://warrington.ufl.edu/master-of-science-in-finance)

Information Systems | BS/MS
Non-thesis only
This program develops the computing, quantitative and applications skills vital to a business problem-solving setting.
Admission Criteria: Competitive GMAT or GRE score; 3.0 GPA
Contact: 352.846.1370 | Email (chandra.hardy@warrington.ufl.edu)
Overlapping Credits: 12-16
More Info (https://warrington.ufl.edu/undergraduate-academics/combined-degrees)

Master of International Business | MIB
This one-year degree allows UF business majors or minors to enhance their undergraduate business education with an in-depth study of global business issues and trends. The MIB program allows curriculum flexibility and incorporates practical global business components with a required one-week Global Immersion Experience course abroad and optional participation in an international exchange program.
Admission Criteria: Competitive GMAT or GRE score; 3.2 minimum GPA
Contact: 352.273.0343 | Email (mib@warrington.ufl.edu)
Overlapping Credits: 2-12
More Info (https://warrington.ufl.edu/undergraduate-academics/combined-degrees)

Real Estate, Master of Science | MSRE
Non-thesis only
The MSRE thrives on innovation, a dynamic student body and significant interaction with high-level working professionals and nationally recognized professors. The program is a unique combination of theory and practice that will enhance the student's commercial real estate education and develop professional skills. Undergraduate students from any college/major may apply. Prior coursework in accounting, business, economics, finance or statistics is preferred but not required.
Admission Criteria: 465 GMAT (600+ average); 3.0 GPA (3.4+ average). Admission is based on a number of factors, including GMAT and academic record.

Contact: 352.273.0310 | Email (pam.demichele@warrington.ufl.edu)
Overlapping Credits: 2-12
More Info (https://warrington.ufl.edu/undergraduate-academics/combined-degrees)

Construction Management, M.E. Rinker, Sr. School of

Construction Management
Admission Criteria: Competitive GRE score; 3.4 upper-division GPA; complete all 3000-level BCN courses
Contact: 352.273.1153 | Email (minch@ufl.edu)
Overlapping credit: 12
More Info (http://www.bcn.ufl.edu/combined-degree-information)

Design, Construction and Planning, College of

Historic Preservation
Available to students in the Bachelor of Sustainability and the Built Environment program
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.294.1438 | Email (mhylton@dcp.ufl.edu)
Overlapping Credits: 15

Interior Design | BS/MS
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.392.0252 ext. 335 | Email (mta@dcp.ufl.edu)
Overlapping Credits: 12
More Info (https://dcp.ufl.edu/interior/interior-design-combined-degree-curriculum)

Landscape Architecture
Available to students in the Bachelor of Sustainability and the Built Environment program
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.392.6098 | Email (guruch@ufl.edu)
Overlapping Credits: 9
More Info (http://www.dcp.ufl.edu/landscape/academics)

Urban and Regional Planning
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.392.0997 ext. 434 | Email (latimer@geoplan.ufl.edu)
Overlapping Credits: 21 (9 of the 21 hours can be taken in the home department)
More Info (https://dcp.ufl.edu/urp/academics/combined-degree-program)

Engineering, College of

Aerospace Engineering | BSAE/ME or MS
Admission Criteria: Competitive GRE score; 3.3 GPA
Contact: 352.392.0963 | Email (bfc@ufl.edu)
Overlapping Credits: 6
More Info (http://www.mae.ufl.edu/current/undergraduate/4-1-bs-ms-program)

Biological Engineering | BS/ME
Admission Criteria: 4EG; 3.30 GPA; completion of pre-engineering courses and 20 credits of the biological engineering core
Contact: 352.392.1864 ext. 116 | Email (rsnyder@ufl.edu)

Biomedical Engineering | BSMSE/MS or ME; BSABE/MS or ME; BSCHE/MS or ME; BSEE/MS or ME, BME/BME, BSBME/MS
Materials Science and Engineering, Biological Engineering, Chemical Engineering or Electrical Engineering
Admission Criteria: Competitive GRE scores acceptable to the BME department; 3.3 GPA
Contact: 352.273.8096 | Email (gss@bme.ufl.edu)
Overlapping Credits: 9-12
More Info (http://www.abe.ufl.edu/academics/undergraduate/combined-degrees.shtml)

Chemical Engineering | BS/MS
Admission Criteria: Competitive GRE score; 3.3 upper division GPA, 3.2 GPA in chemical engineering courses; six ECH-prefixed core courses
Contact: 352.392.0881 | Email (svoronos@ufl.edu)
Overlapping Credits: 12
More Info (http://www.eng.ufl.edu/students/resources/undergraduate-student-handbook/combined-degree)

Civil Engineering | BS/ME or MS
Admission Criteria: Competitive GRE score; 3.3 upper-division GPA
Contact: 352.392.9537 | Email (rthie@ce.ufl.edu)
Overlapping Credits: 9
More Info (http://www.eng.ufl.edu/students/resources/undergraduate-student-handbook/combined-degree)

Computer Engineering | BSCEN/ME or MS
Thesis or non-thesis
Admission Criteria: Junior status; Competitive GRE score; 3.3 GPA; completion of 3 of 4 core courses: CDA 3101; COP 3503 or COP 3504; COP 3530; COT 3100
Contact: CISE department, 405 Computer Science and Engineering | 352.392.1090
Overlapping Credits: 12
More Info (http://www.cise.ufl.edu/academics/undergrad/bsms)

Digital Arts and Sciences | BS/MS
Admission Criteria: Junior status; Competitive GRE score; 3.3 GPA; a portfolio; 3.3 minimum GPA on 3 of 4 core courses: CDA 3101; COP 3503 or COP 3504; COP 3530; COT 3100
Contact: CISE Department, 405 Computer Science and Engineering | 352.392.1090
Overlapping Credits: 12
More Info (https://www.cise.ufl.edu/academics/undergrad/bsms)

Electrical and Computer Engineering | BSEE/ME or MS
Admission Criteria: Competitive GRE score; 3.3 upper-division GPA
Contact: 352.392.9758 | Email (office@graduate.ece.ufl.edu)
Overlapping Credits: 6-12
More Info (http://www.ece.ufl.edu/content/bsms-program)

Environmental Engineering | BS/ME
Admission Criteria: Competitive GRE score or passing score on the Fundamentals of Engineering exam; 3.30 GPA
Contact: 352.392.7104 | Email (bkoop@ufl.edu)
Overlapping Credits: 12
More Info (https://www.essie.ufl.edu/forms)

Industrial and Systems Engineering | BSISE/ME, MS, MSM or MSF
Admission Criteria: Competitive GRE score; 3.5 upper-division GPA
Contact: 352.392.1464 ext. 2026 | Email (blunt@ise.ufl.edu)
Overlapping Credits: 10
More Info (http://www.ise.ufl.edu/current-students/undergraduate-students/bsms-or-bsme-ise-program)

Materials Science and Engineering | BSMSE/MS or ME
Admission Criteria: Competitive GRE score used in the context of a holistic credential review; 3.5 GPA; 18 hours of EMA undergraduate coursework must be completed
Contact: 352.846.3312 | Email (mmcdo@mse.ufl.edu)

Overlapping Credits: 12
More Info (http://www.mse.ufl.edu/combined-bsms-in-biomedical-engineering)

Mechanical Engineering | BSME/ME or MS
Admission Criteria: Competitive GRE score; 3.3 GPA
Contact: 352.392.0963 | Email (bfc@ufl.edu)
Overlapping Credits: 6
More Info (http://www.mae.ufl.edu/current/undergraduate/4-1-bs-ms-program)

Nuclear and Radiological Engineering | BSNE/MS or ME
Admission Criteria: Competitive GRE score; 3.6 GPA
Contact: 352.846.3312 | Email (mmcdo@mse.ufl.edu)
Overlapping Credits: 12
More Info (http://www.nuceng.ufl.edu/students/undergrad)

Nuclear Engineering Science | BSNES/MS or ME
Admission Criteria: Competitive GRE score; 3.6 GPA
Contact: 352.846.3312 | Email (mmcdo@mse.ufl.edu)
Overlapping Credits: 12
More Info (http://www.nuceng.ufl.edu/students/undergrad)

Health and Human Performance, College of
Health Education and Behavior: BS/MS
Non-thesis only
Admission Criteria: Competitive GRE score; 3.2 UF GPA
Contact: 352.392.0583 ext. 1288 | Email (hmoses@hhp.ufl.edu)
Overlapping Credits: 12
More Info (http://heb.hhp.ufl.edu/index.php/academia/undergraduate/combined-degree-programs)

Sport Management | BSSPM/MSSPM
Admission Criteria: Competitive GRE score; 3.2 overall GPA with a 3.0 critical-tracking GPA; completion of EME 2040, MAR 3023, SPM 2000, SPM 3204 and MAN 3025 with minimum grades of B on first attempt
Contact: 352.392.4042 | Email (TRSMGRAD@hhp.ufl.edu)
Overlapping Credits: 12
More Info (http://trsm.hhp.ufl.edu/index.php/academia/undergraduate/41-combined-degree-program/sport-management)

Tourism, Event and Recreation Management | BSRPT/MSRPT
Admission Criteria: Competitive GRE score; 3.2 GPA; completion of LEI 3140, LEI 3400, LEI 3705; 3 credit option-specific course (i.e., HFT 2750/LEI 3360/LEI 3301, etc.), 3 credit cognate course with a minimum grade of B on first attempt
Contact: 352.392.4042 | Email (TRSMGRAD@hhp.ufl.edu)
Overlapping Credits: 12
More Info (http://trsm.hhp.ufl.edu/index.php/academia/undergraduate/41-combined-degree-program)

Journalism and Mass Communication, College of
Advertising | BS Advertising/MA Mass Communication
Audience Analytics, Digital Strategy, Global Strategic Communication, Political Communication, Public Relations, Social Media or Web Design
UF CJC Online master's specializations are founded in theory and influenced by industry. Offering unparalleled opportunities for growth and advancement, our programs feature the most comprehensive, digitally focused online graduate curriculum in the world. Equipped with portfolios featuring real-world projects, our students stand out from the crowd. Undergraduate students from any college/major may apply. Prior coursework in communications not required.
Admission Criteria: Competitive GRE score; 3.0 GPA
Contact: 352.273.3412 | Email (distancesupport@jou.ufl.edu)
Overlapping Credits: 3-12
More Info (http://onlinemasters.jou.ufl.edu/combined-degree-program)

Journalism | BS Journalism/MA Mass Communication
Audience Analytics, Digital Strategy, Global Strategic Communication, Political Communication, Public Relations, Social Media or Web Design
UF CJC Online master's specializations are founded in theory and influenced by industry. Offering unparalleled opportunities for growth and advancement, our programs feature the most comprehensive, digitally focused online graduate curriculum in the world. Equipped with portfolios featuring real-world projects, our students stand out from the crowd. Undergraduate students from any college/major may apply. Prior coursework in communications not required.
Admission Criteria: Competitive GRE score; 3.0 GPA
Contact: 352.273.3412 | Email (distancesupport@jou.ufl.edu)
Overlapping Credits: 3-12
More Info (http://onlinemasters.jou.ufl.edu/combined-degree-program)

Public Relations | BS Public Relations/MA Mass Communication
Audience Analytics, Digital Strategy, Global Strategic Communication, Political Communication, Public Relations, Social Media or Web Design
UF CJC Online master's specializations are founded in theory and influenced by industry. Offering unparalleled opportunities for growth and advancement, our programs feature the most comprehensive, digitally focused online graduate curriculum in the world. Equipped with portfolios featuring real-world projects, our students stand out from the crowd. Undergraduate students from any college/major may apply. Prior coursework in communications not required.
Admission Criteria: Competitive GRE score; 3.0 GPA
Contact: 352.273.3412 | Email (distancesupport@jou.ufl.edu)
Overlapping Credits: 3-12
More Info (http://onlinemasters.jou.ufl.edu/combined-degree-program)

Telecommunication | BS Telecommunication/MA Mass Communication
Audience Analytics, Digital Strategy, Global Strategic Communication, Political Communication, Public Relations, Social Media or Web Design
UF CJC Online master's specializations are founded in theory and influenced by industry. Offering unparalleled opportunities for growth and advancement, our programs feature the most comprehensive, digitally focused online graduate curriculum in the world. Equipped with portfolios featuring real-world projects, our students stand out from the crowd. Undergraduate students from any college/major may apply. Prior coursework in communications not required.
Admission Criteria: Competitive GRE score; 3.0 GPA
Contact: 352.273.3412 | Email (distancesupport@jou.ufl.edu)
Overlapping Credits: 3-12
More Info (http://onlinemasters.jou.ufl.edu/combined-degree-program)

Liberal Arts and Sciences, College of
Biology/Biochemistry and Molecular Biology | BS/MS
Students must identify a College of Medicine faculty member who will serve as their graduate faculty advisor. A written agreement must be approved by both the Undergraduate Coordinator in the Department of Biology and the Graduate Coordinator in the College of Medicine. To count toward the MS degree, courses much be graduate level and letter-graded.

Admission Criteria: 3.2 cumulative GPA, 3.3 upper division GPA, completion of all critical-tracking requirements in the Biology B.S. degree, completion of at least three semester hours of mentored research (e.g.,

through BSC 4910 and BSC 4912) or equivalent research experience, and completion of BCH4024 (or equivalent).
Contact: 352.392.1521 | Email (http://catalog.ufl.eduMAILTO:bioadvising@advising.ufl.edu)
Overlapping Credits: 12
More info (https://biology.ufl.edu/undergraduates/undergraduate-combined-degree-program-offerings)

Biology/Botany | BS/MS

Students must identify a Department of Biology faculty member who will serve as their graduate faculty advisor. A written agreement must be approved by both the Undergraduate Coordinator and Graduate Coordinator in the Department of Biology. To count toward the MS degree, courses much be graduate level and letter-graded.

Admission Criteria: 3.2 cumulative GPA, 3.3 upper division GPA, completion of all critical-tracking requirements in the Biology B.S. degree, and completion of at least three semester hours of mentored research (e.g., through BSC 4910 and BSC 4912) or equivalent research experience.
Contact: 352.392.1521 | Email (http://catalog.ufl.eduMAILTO:bioadvising@advising.ufl.edu)
Overlapping Credits: 12
More info (https://biology.ufl.edu/undergraduates/undergraduate-combined-degree-program-offerings)

Biology/Medical Sciences | BS/MS

Students must identify a College of Medicine faculty member who will serve as their graduate faculty advisor. A written agreement must be approved by both the Undergraduate Coordinator in the Department of Biology and the Graduate Coordinator in the College of Medicine. To count toward the MS degree, courses much be graduate level and letter-graded.

Admission Criteria: 3.2 cumulative GPA, 3.3 upper division GPA, completion of all critical-tracking requirements in the Biology B.S. degree, completion of at least three semester hours of mentored research (e.g., through BSC 4910 and BSC 4912) or equivalent research experience, and completion of BCH4024 (or equivalent) for the Genetics Track or Microbiology Track.
Contact: 352.392.1521 | Email (http://catalog.ufl.eduMAILTO:bioadvising@advising.ufl.edu)
Overlapping Credits: 12
More info (https://biology.ufl.edu/undergraduates/undergraduate-combined-degree-program-offerings)

Biology/Zoology | BS/MS

Students must identify a Department of Biology faculty member who will serve as their graduate faculty advisor. A written agreement must be approved by both the Undergraduate Coordinator and Graduate Coordinator in the Department of Biology. To count toward the MS degree, courses much be graduate level and letter-graded.

Admission Criteria: 3.2 cumulative GPA, 3.3 upper division GPA, completion of all critical-tracking requirements in the Biology B.S. degree, and completion of at least three semester hours of mentored research (e.g., through BSC 4910 and BSC 4912) or equivalent research experience.
Contact: 352.392.1521 | Email (http://catalog.ufl.eduMAILTO:bioadvising@advising.ufl.edu)
Overlapping Credits: 12
More info (https://biology.ufl.edu/undergraduates/undergraduate-combined-degree-program-offerings)

Botany | BS/MS

Thesis or non-thesis
Admission Criteria: 300 GRE; 3.2 GPA
Contact: 352.273.0126 | Email (BIOUC-L@lists.ufl.edu)
Overlapping Credits: 12
More Info (http://www.biology.ufl.edu/Undergraduates/Botany.aspx)

Computer Science | BS/MS

Thesis or non-thesis
Joint program in the colleges of Engineering and Liberal Arts and Sciences, coordinated by the Department of Computer and Information Science and Engineering. Students may combine either the B.S. in Computer Science offered through the College of Liberal Arts and Sciences or the B.S. in Computer Science offered through the College of Engineering with the M.S. in Computer Science (LS).
Admission Criteria: Junior status; Competitive GRE score; 3.3 GPA; completion of 3 of the 4: CDA 3101, CIS 3503, COP 3530, COT 3100.
Contact: CISE department | 352.392.1090
Overlapping Credits: 12
More Info (https://www.cise.ufl.edu/academics/undergrad/bsms)

Economics | BA/MA

Admission Criteria: Competitive GRE score; 3.25 cumulative GPA; completion of 105 credits, 12 of which must be Economics courses (i.e., ECO, ECP, or ECS prefix) taken at UF.
Contact: Email (thomas.knight@ufl.edu)
Overlapping Credits: 12

French | BA/MA

Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: Email (blondeau@ufl.edu)
Overlapping Credits: 12
More Info (http://www.clas.ufl.edu/majors/french.html)

Geography | BA or BS/MA or MS

Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: Email (liangmao@ufl.edu)
Overlapping Credits: 12
More Info (http://www.geog.ufl.edu/undergrad/overview.html)

Geology | BS or BA/MS or MA

Admission Criteria: Competitive GRE score; 3.2 GPA; 24 credits at UF; minimum 20 credits of geology courses with 3.5 GPA
Contact: 352.392.2766 or 352.392.2231; Email (rrusso@ufl.edu)
Overlapping Credits: 12
More Info (http://web.geology.ufl.edu/Undergraduate/combined.html)

History | BA/MA

Non-thesis only
Admission Criteria: Competitive GRE score; 3.25 GPA
Contact: 352.273.3387 | Email (edale@ufl.edu)
Overlapping Credits: 8
More Info (http://history.ufl.edu/undergraduate-studies/41-program)

Latin American Studies | BA or BS (various fields) / MALAS

Admission Criteria: Competitive GRE score; 3.5 GPA; at least 12 credits of 3000-4000 level Latin American-content courses with at least 25% Latin American content (including at least one LAS 4935); intermediate proficiency in Spanish, Portuguese or Haitian Creole (as determined by a standardized exam, individual assessment by UF faculty or coursework: i.e., Spanish through SPN 2240, Portuguese through POR 3242 or Haitian Creole through HAI 2200)
Contact: 352.273.4708 | Email (spaulson@latam.ufl.edu)
Overlapping Credits: 12

More Info (http://www.latam.ufl.edu/academics/undergraduate-programs/combined-degree)

Linguistics | BA/MA
Admission Criteria: Competitive GRE score; 3.25 GPA
Contact: 352.294.7459 | Email (pgolombek9@ufl.edu)
Overlapping Credits: 12
More Info (http://lin.ufl.edu/files/Combined_degree_April_2012.pdf)

Mathematics | BS/MA or MS
Non-thesis only
Admission Criteria: Competitive GRE score; 3.25 GPA
Contact: 352.294.2322 | Email (kknudson@ufl.edu)
Overlapping Credits: 12
More Info (http://www.math.ufl.edu/undergradprog/accelerate.html)

Philosophy | BA/MA
Admission Criteria: Competitive GRE score; 3.2 cumulative GPA; 3.5 GPA in all philosophy courses
Contact: Email (undergrad.coord@phil.ufl.edu)
Overlapping Credits: 12
More Info (http://www.phil.ufl.edu/grad/grad-bama.html)

Physics | BS or BA/MS
Admission Criteria: Competitive GRE score; 140 verbal GRE; 600 Physics GRE; 3.5 upper-division GPA
Contact: 352.392.8952 | Email (amlan@phys.ufl.edu)
Overlapping Credits: 12
More Info (http://www.phys.ufl.edu/academics/undergraduate/degrees.shtml)

Political Science | BA/MA
Admission Criteria: Competitive GRE score; 3.7 GPA; completion of 24 credits at UF, 12 of which must be political science courses
Contact: 352.273.2368 | Email (rnolan@ufl.edu)
Overlapping Credits: 12
More Info (http://polisci.ufl.edu/graduate/ma-programs/jdma-joint-degree-program)

Portuguese | BA Portuguese/MA Latin American Studies
Thesis or non-thesis
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.392.2100 | Email (perrone@ufl.edu)
Overlapping Credits: 12
More Info (http://spanishandportuguese.ufl.edu/undergraduate-programs)

Religion | BA/MA
Admission Criteria: Competitive GRE score; 3.0 GPA; letter of purpose
Contact: 352.392.1625 | Email (ostebo@ufl.edu)
Overlapping Credits: 12
More Info (http://religion.ufl.edu/undergraduate-studies)

Russian | BA/MA
Thesis or non-thesis
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: Email (mgorham@ufl.edu)
Overlapping Credits: 12
More Info (http://www.clas.ufl.edu/majors/russian.html)

Sociology | BA/MA
Admission Criteria: Competitive GRE score; 3.2 GPA
Contact: 352.294.7168 | Email (mborg@ufl.edu)
Overlapping Credits: 12
More Info (http://soccrim.clas.ufl.edu/undergraduate/sociology/academics/combined-bama-degree)

Spanish | BA/MA
Admission Criteria: Competitive GRE score; 3.5 GPA
Contact: 352.273.3750 | Email (moreland@ufl.edu)
Overlapping Credits: 12
More Info (http://www.spanish.ufl.edu/spanish/undergraduate.html)

Statistics | BA or BS/MStat
Non-thesis only
Admission Criteria: Competitive GRE score (minimum 1100); GPA: 3.25 or higher in all coursework (at least 24 hours at UF), and a GPA of 3.5 or higher in 4000-level statistics coursework (at least 12 hours at UF) and a 3.0 in graduate statistics coursework
Contact: 352.273.2972 | Email (athienit@ufl.edu)
Overlapping Credits: 15
More Info (https://stat.ufl.edu/academics/combined-degree-program)

Women's Studies | BA/MA
Admission Criteria: Competitive GRE score; 3.2 GPA; complete WST 3015
Contact: 352.273.0389 | Email (klbroad@ufl.edu)
Overlapping Credits: 12
More Info (http://gradcatalog.ufl.edu/preview_program.php?catoid=5&poid=2616&returnto=1045)

Natural Resources and Environment, School of

Environmental Science and Interdisciplinary Ecology | BS/MS
Thesis or Non-thesis
Admission Criteria: Competitive GRE score; 3.3 GPA
Contact: 352.392.9230 | Email (frazer@ufl.edu)
Overlapping Credits: 15
More Info (http://snre.ifas.ufl.edu/academics/degrees-offered/combined-bachelors-and-masters)

Public Health and Health Professions, College of

Public Health | Any Bachelor's Degree/MPH
Qualified students with any undergraduate major can pursue a master's degree in public health. Students complete 15 credits of public health core courses as an undergraduate and then complete the remaining 33 credits after admission to graduate school. Students select a concentration in public health management and policy, social and behavioral sciences, epidemiology, biostatistics or environmental health.
Admission Criteria: Competitive GRE score; 3.2 GPA; completion of APK 2105C, BSC 2005 or BSC 2010, PSY 2012, STA 2023, advanced psychology (abnormal or developmental) and any additional prerequisites (depends on concentration).
Contact: 352.273.6377 | Email (shanson@phhp.ufl.edu)
Overlapping credits: 15
More Info (http://mph.ufl.edu/prospective-students/mph/collaborative-and-joint-mph-degrees/combined-bachelorsmph-degree-program)

Applying

Meet with an academic advisor to determine the most-appropriate combined-degree option. Qualified students can pursue the graduate degree outside the undergraduate major or department. Application normally occurs in the junior or senior year. If accepted, students must take the GRE the first semester of their senior year.
More Info (http://www.admissions.ufl.edu/pdf/combdegreerequest.pdf)

Financial aid is available for the graduate portion of the program. Undergraduate degree costs should be satisfied with existing financial

aid such as Bright Futures and Prepaid Tuition. Bright Futures can cover the undergraduate costs of up to 12 hours of graduate courses that apply to the undergraduate degree. Each student is responsible for the difference in tuition between the undergraduate and graduate course rates. If available, the Florida Prepaid Tuition Program can fund the first 120 hours. Graduate courses that apply toward the undergraduate degree are funded at the undergraduate rate, and the student is responsible for the difference.

FAQ

What is a combined bachelor's and master's degree program?
A combined-degree program allows students to complete a specific number of graduate-level credits (typically ranging from 12 to 21 hours of approved coursework) while enrolled as an undergraduate. Approved hours satisfy degree requirements for both degrees.

Why should I participate in a combined-degree program?
The program allows students to take graduate coursework before they make a decision to complete a graduate degree. If the student continues in a graduate program, they'll save at least one full semester of graduate enrollment.

At what point in the undergraduate program should I apply?
Students can apply as early as the second semester of their sophomore year or as late as their senior year depending upon the combined-degree program.

At what point do I enroll in graduate courses?
If approved, students can take graduate courses during their junior and senior years as specified by the particular combined-degree program.

What is required for approval?
As an undergraduate applying for entry into a combined-degree program, students must have a minimum cumulative 3.2 UF GPA (some majors require a higher GPA) and have completed all critical-tracking requirements to enroll in graduate coursework while they are completing their undergraduate degree. After students apply for admission to the Graduate School, however, they must meet the minimum cumulative GPA requirement and GRE/GMAT score the particular master program requires.

What is required so that 12 to 21 hours of graduate coursework (depending on the major) can also count toward my master's degree?
To apply the graduate credit to both degrees, students must be admitted to the Graduate School and receive a grade of B or higher in each course. A graduate coordinator can provide the admission requirements for a particular department.

If I do not continue in graduate school, can the graduate coursework I complete still be used to satisfy my undergraduate degree requirements?
Yes.

What about my financial aid?
Bright Futures and/or the Florida Prepaid Tuition Program will pay the undergraduate tuition rate for the graduate courses students take; each student will have to pay the difference between undergraduate and graduate course costs.

Why would I want to pay additional tuition to enroll in graduate courses?
If a student continues to graduate school, they will save on the tuition costs for the 12 to 21 graduate credits (depending on the major) taken while still classified as an undergraduate. Remember that graduate course costs will be partially paid by the student's undergraduate financial aid.

How do I apply?
Contact an undergraduate advisor and complete the combined degree application. Students will need the approval of the undergraduate coordinator, the graduate coordinator, and the dean's office of their undergraduate college.

What do I do if I want to create my own combined-degree program?
Students should contact the coordinator in the graduate department of the new combined-degree program.

Are there other accelerated degree programs available other than combined degrees?
Yes, there are several accelerated degree programs available.
More Info (p. 1399)

Dual Enrollment Credit

In general, you may transfer up to 60 credits from public/state colleges as part of the credits needed for your UF degree, regardless when these credits are earned, but subject to university and college degree requirements. It is the prerogative of your college to determine how transfer credit satisfies a specific degree's course requirements.

Students are required to submit to the Office of Admissions final official transcripts from all institutions attended before or during their enrollment at UF.
More Info (p. 1441)

Credit from Florida Public Colleges and State Universities

Courses from Florida public colleges and State University System schools generally adhere to the Statewide Course Numbering System. If the prefix (first three letters) and the last three digits of the course number are the same, the courses are considered equivalent.
More Info (p. 1455)

Equivalent courses will generally fulfill the same requirements (e.g., general education) that the UF course fulfills. However, whether a course fulfills the writing requirement is determined by specific criteria, not course number equivalency.
More Info (p. 1423)

Courses from Private or Out-of-State Institutions

College credit from private or out-of-state institutions earned through a dual-enrollment program may transfer to UF, but must be evaluated by your college to determine if courses completed will fulfill specific requirements.

Exam Credit

Award of Incoming Credits

- Credit will be awarded only once for the same course, whether from credit by examination, dual enrollment, transfer credit, or UF course credit.
- UF course credit takes precedence over all other forms of credit for the same course.
- Credit awarded for acceptable dual enrollment or transfer courses takes precedence over credit by examination.
- If duplicate credit exists among AICE, AP, CLEP, or IB, the exam yielding the most credit will be awarded.

Guidelines for Credit Awarded by AICE, AP, CLEP, or IB Examinations

- A maximum of 45 credit hours may be granted by combining AICE, AP, CLEP, and IB credit.
- Beginning with the 2019 Catalog year, students may be awarded a maximum of 30 credit hours for IB exams and a maximum of 30 credit hours for AICE exams.
- Students beginning in the fall or spring term must have taken the exams (AICE, AP, CLEP, and IB) and have their scores reported to the university before the end of their first term of enrollment at UF.
- Students who begin in the Summer A term must have taken the exam(s) and had their scores reported to the university before the end of their first Summer B/C term.
- Students who begin in the Summer B term must have taken the exam(s) and had their scores reported to the university before the end of their first fall term.
- If a student submits appropriate scores, UF will grant credit for the UF course(s) that most closely match the content of the exam as determined by the State of Florida. The transcript will reflect the course(s) with grades of P (for *Pass*). P grades will not be calculated into the student's GPA.
- Equivalent courses earned by examination generally fulfill the same requirements that the UF course fulfills.

Exams

AICE Exam Credit

Students completing approved AICE examinations with scores of A-E will earn UF credit.

Scores of E or higher on AICE French Language, German, Latin Language, and Spanish Language examinations fulfill the foreign language proficiency requirement for the College of Liberal Arts and Sciences, the College of Journalism and Communications, and B.A. programs in the College of the Arts.

The chart specifies which UF course credit students will earn depending on their score on each exam and whether the credit earned will count for general education (p. 23) and the writing requirement (p. 1421) (6,000 words).

Beginning with the 2019 Catalog, students may be awarded a maximum of 30 credit hours for AICE exams.

AICE Exam Title	AS Level	A Level	Gen Ed Credit
	3 Credits/Exam unless otherwise noted	**6 Credits/Exam** unless otherwise noted	
Accounting	ACG L000[1]	ACG L000[1]	
Applied Information, Communication Technology (ICT)	CGS L000[1]	CGS L000[1]	
Art and Design	ART 2305C	ART 2305C and ART L000[1]	
Biology	BSC 2005, BSC 2005L (4 credits)	BSC 2005, BSC 2005L and BSC 2010, BSC 2010L (8 credits)	BSC 2005, 2010 = State Core B, BSC 2005L, 2010L = B
Business, General	GEB 2015 (1 credit) and GEB L000[1] (2 credits)	GEB 2015 (1 credit) and GEB L000[1] (5 credits)	
Chemistry	CHM 1020, CHM L000[1] (4 credits)	CHM 1020, CHM L000[1] and CHM 2045, CHM 2045L (8 credits)	CHM 1020, 2045 = State Core P, CHM 2045L = P (no Gen Ed credit for CHM L000)
Classical Studies (AS Level only)	CLA L000[1]	NA	
Computing	CGS L000[1]	CGS L000[1] and CIS L000[1]	
Design Technology	ETI L000[1]	ETI L000[1]	
Divinity	REL 2210	REL 2210 and REL 2240	H
Economics	ECO L000[1]	ECO 2013 and ECO 2023 (8 credits)	ECO 2013 = State Core S, ECO 2023 = S (no Gen Ed credit for ECO L000)
English Language	ENC 1101[2]	ENC 1101[2] and LIT 2000	ENC 1101 = State Core C, LIT 2000 = State Core H

English Literature[2]	ENC 1102	ENC 1102 and LIT 2120	ENC 1102 = State Core C, LIT 2120 = C or H **and** N
Environmental Management (AS Level only)	EVR 2001 and EVR L000[1]	NA	EVR 2001 = State Core B or P **and** N (no Gen Ed credit for EVR L000)
French Language	FRE 2220 (4 credits)	FRE 2220 and FRE 2221 (8 credits)	
French Literature (AS Level only)	FRW L000[1]	NA	
Further Math (A Level only)	NA	MAC 2311 and MAC 2312 (8 credits)	State Core M
General Paper	IDS L000[1]	NA	
Geography	GEA 1000	GEO 2200 and GEO L000[1]	GEA 1000 = S and N, GEO 2200 = P (no Gen Ed credit for GEO L000)
German	GER 2200	GER 2200 and GER 2240	
Global Perspectives	ISS L000[1]	ISS L000[1]	
History: European[2]	EUH 2002	EUH 2001 and EUH 2002	H and N
History: International (AS Level only)	WOH 2040	NA	
History: United States	AMH L000[1]	AMH L000[1] and AMH L000[1]	
History: World	WOH 2040	WOH 2040 and HIS 2206	
Latin Language (AS Level only)	LAT 1131 (5 credits)	NA	
Marine Science	OCE 1001	OCE 1001 and OCE L000[1]	OCE 1001 = P (no Gen Ed credit for OCE L000)
Mathematics	MAC 1147 (4 credits)	MAC 1114 and MAC 2311	MAC 1147 and MAC 2311 = State Core M, MAC 1114 = M
Media Studies	DIG 1000C	DIG 1000C and DIG L000[1]	
Music	MUH L000[1]	MUH L000[1]	
Physics	PHY 2020 and PHY L000[1] (4 credits)	PHY 2053, PHY 2053L and PHY 2054, PHY 2054L (10 credits)	PHY 2020, PHY 2053, PHY 2054, = State Core P PHY 2053L, 2054L = P (no Gen Ed credit for PHY L000)
Psychology	PSY 2012	PSY 2012 and PSY L000[1]	State Core S (no Gen Ed credit for PSY L000)
Sociology	SYG 2000	SYG 2000 (3 credits)	State Core S
Spanish	SPN 2200	SPN 2200 and SPN 2201	
Spanish Literature (AS Level only)	SPW L000	NA	
Thinking Skills	PHI L000[1]	PHI L000[1]	
Travel and Tourism	HFT L000[1]	HFT L000[1]	

1 The L000 course number has no UF course equivalent. The credit applies to the minimum credits for the degree but does not provide credit for general education, writing requirement or count toward the major.

2 Writing requirement (6000 words).

AP Exam Credit

Students completing approved AP examinations with scores of three or higher will earn UF credit.

Scores of three or higher on AP Chinese, French, German, Italian, Japanese, Latin, Russian, and Spanish language examinations fulfill the foreign language proficiency requirement for the College of Liberal Arts and Sciences, the College of Journalism and Communications, and B.A. programs in the College of the Arts.

AP Calculus Placement Scores More AP Information (http://www.collegeboard.com/student/testing/ap/about.html)

The UF course credit that students earn depends on their score on each AP exam and whether the credit earned will count for general education (p. 23) and the writing requirement (p. 1421) (6,000 words).

AP Exam	Score of 3	Score of 4	Score of 5	Gen Ed Credit
	3 Credits/Exam unless otherwise noted	**6 Credits/Exam** unless otherwise noted	**6 Credits/Exam** unless otherwise noted	
2-D Art and Design	ART 1201C	ART 1201C (3 credits)	ART 1201C (3 credits)	
3-D Art and Design	ART 1203C	ART 1203C (3 credits)	ART 1203C (3 credits)	
Art History	ARH 2000	ARH 2000 and ARH 2050	ARH 2000 and ARH 2050	ARH 2000 = State Core H and D, ARH 2050 = H and N

Biology	BSC 2005/BSC 2005L (4 credits)	BSC 2010/BSC 2010L (4 credits)	BSC 2010/BSC 2010L and BSC 2011/BSC 2011L (8 credits)	BSC 2005, 2010, 2011 = State Core B, BSC 2010L, 2011L = B
Calculus AB	MAC 2311 (4 credits)	MAC 2311 (4 credits)	MAC 2311 (4 credits)	State Core M
Calculus BC	MAC 2311 (4 credits)	MAC 2311 and MAC 2312 (8 credits)	MAC 2311 and MAC 2312 (8 credits)	State Core M
Capstone Research	IDS L000	IDS L000 (3 credits)	IDS L000 (3 credits)	
Capstone Seminar	IDS L000	IDS L000 (3 credits)	IDS L000 (3 credits)	
Chemistry	CHM 1020/CHM L000[1] (4 credits)	CHM 2045/2045L (4 credits)	CHM 2045/CHM 2045L and CHM 2046/CHM 2046L (8 credits)	CHM 1020, 2045, 2046 = State Core P CHM 2045, 2046L = P (no Gen Ed credit for CHM L000)
Chinese Language and Culture	CHI 2230 (5 credits)	CHI 2230 and CHI 2231 (10 credits)	CHI 2230 and CHI 2231 (10 credits)	
Computer Science A	CGS L000[1]	CGS L000[1] (3 credits)	CGS L000[1] (3 credits)	
Computer Science Principles	CIS L000[1]	CIS L000[1]	CIS L000[1]	
Drawing	ART 2305C	ART 2305C (3 credits)	ART 2305C (3 credits)	
Economics: Macro	ECO 2013 (4 credits)	ECO 2013 (4 credits)	ECO 2013 (4 credits)	State Core S
Economics: Micro	ECO 2023 (4 credits)	ECO 2023 (4 credits)	ECO 2023 (4 credits)	S
English Language and Composition[2]	ENC 1101	ENC 1101 and ENC 1102	ENC 1101 and ENC 1102	State Core C
English Literature and Composition[2]	AML 2070	AML 2070 and LIT 2120	AML 2070 and LIT 2120	AML 2070 = C or H, LIT 2120 = C or H **and** N
Environmental Science	ISC L000[1]	ISC L000[1] (3 credits)	ISC L000[1] (3 credits)	
European History	EUH L000[1]	EUH 2000 and EUH 2001[2]	EUH 2000 and EUH 2001[2]	EUH 2000 and 2001 = H and N (no Gen Ed credit for EUH L000)
French Language	FRE 2220 (4 credits)	FRE 2220 and FRE 2221 (8 credits)	FRE 2220 and FRE 2221 (8 credits)	
German Language	GER 2200	GER 2200 and GER 2240	GER 2200 and GER 2240	
Govt. and Politics: Comparative	CPO 2001	CPO 2001 (3 credits)	CPO 2001 (3 credits)	S and N
Govt. and Politics: United States	POS 2041	POS 2041 (3 credits)	POS 2041 (3 credits)	State Core S
Human Geography	GEO 2420	GEO 2420 (3 credits)	GEO 2420 (3 credits)	S and N
Italian Language and Culture	ITA 2220 (4 credits)	ITA 2220 and ITA 2221 (8 credits)	ITA 2220 and ITA 2221 (8 credits)	H and N
Japanese Language and Culture	JPN 2230 (5 credits)	JPN 2230 and JPN 2231 (10 credits)	JPN 2230 and JPN 2231 (10 credits)	
Latin	LNW 2321	LNW 2321 (3 credits)	LNW 2321 (3 credits)	
Music Theory	MUT 1001, if composite score is 3 or higher (3 credits); MUT 1121, if both aural and non-aural subscores are 3 or higher (3 credits)	MUT 1001, if composite score is 3 or higher (3 credits); MUT 1121, if both aural and non-aural subscores are 3 or higher (3 credits)	MUT 1121, if both aural and non-aural subscores are 3 or higher (3 credits)	
Physics 1	PHY 2053/PHY 2053L (5 credits)	PHY 2053/PHY 2053L (5 credits)	PHY 2053/PHY 2053L (5 credits)	PHY 2053 = State Core P, PHY 2053L = P
Physics 2	PHY 2054/PHY 2054L (5 credits)	PHY 2054/PHY 2054L (5 credits)	PHY 2054/PHY 2054L (5 credits)	PHY 2054 = State Core P, PHY 2054L = P
Physics B	PHY 2053/PHY 2053L (5 credits)	PHY 2053/PHY 2053L and PHY 2054/PHY 2054L (10 credits)	PHY 2053/PHY 2053L and PHY 2054/PHY 2054L (10 credits)	P
Physics C: Electricity and Magnetism	PHY 2054/PHY 2054L (5 credits)	PHY 2049/PHY 2049L (4 credits)	PHY 2049/PHY 2049L (4 credits)	P

Physics C: Mechanics	PHY 2053/PHY 2053L (5 credits)	PHY 2048/PHY 2048L (4 credits)	PHY 2048/PHY 2048L (4 credits)	P
Psychology	PSY 2012	PSY 2012 (3 credits)	PSY 2012 (3 credits)	State Core S
Spanish Language	SPN 2200	SPN 2200 and SPN 2201	SPN 2200 and SPN 2201	
Spanish Literature	SPW L000[1]	SPW L000[1]	SPW 3100 and SPW L000[1]	SPW 3100 = H and N (no Gen Ed credit for SPW L000)
Statistics	STA 2023	STA 2023 (3 credits)	STA 2023 (3 credits)	State Core M
United States History	AMH L000[1]	AMH 2010[2] and AMH 2020	AMH 2010[2] and AMH 2020	AMH 2010 = H. AMH 2020 = State Core S and D (no Gen Ed credit for AMH L000)
World History: Modern	WOH L000[1]	WOH L000[1] (3 credits)	WOH L000[1] (3 credits)	

1 The L000 course number has no UF course equivalent. The credit applies to the minimum credits for the degree but does not provide credit toward general education, writing requirement, or count toward the major.

2 Writing requirement (6000 words).

CLEP Exam Credit

CLEP examinations cover material that is taught in introductory-level courses at many colleges and universities.

More CLEP Information (http://www.collegeboard.com/clep)

The chart specifies which UF course credit students will earn depending on their score on each exam and whether the credit earned will count for general education (p. 21) and the writing requirement (p. 1421) (6,000 words).

Scale Score is 50 for Passing

CLEP Exam Title	Score	UF Equivalency	Gen Ed Credit
		Credits=3 unless noted	
Algebra, College	50	MAC 1105	State Core M
American Government	50	POS 2041	State Core S
American Literature	50	AML L000[1]	
Analyzing and Interpreting Literature		None	
Biology, General	50	BSC 2005	State Core B
Business Law, Introduction to	50	BUL L000[1]	
Calculus	50	MAC 2233	State Core M
Chemistry, General	50	CHM 1020	State Core P
College Composition[2]	50	ENC 1101 and ENC 1102 (6 credits)	State Core C
Educational Psychology, Introduction to	50	EDP L000[1]	
English Literature	50	ENL L000[1]	
Financial Accounting	50	ACG L000[1]	
French Language	50	FRE 1180	
French Language	59	FRE 1131 (6 credits)	
Freshman Composition		None	
German Language	50	GER 1130 (5 credits)	
German Language	60	GER 1131 (6 credits)	
History of the US 1: Early Colonizations to 1877	50	AMH 2010	H
History of the US 2: 1865 to Present	50	AMH 2020	State Core S and D
Human Growth and Development	50	DEP L000[1]	
Humanities	50	HUM L000[1]	
Information Systems and Computer Applications	50	CGS L000[1]	
Macroeconomics, Principles of	50	ECO 2013 (4 credits)	State Core S
Management, Principles of	50	MAN L000[1]	
Marketing, Principles of	50	MAR L000[1]	

Mathematics, College	50	MGF 1106	State Core M
Microeconomics, Principles of	50	ECO 2023 (4 credits)	S
Natural Science		None	
Precalculus	50	MAC 1140	State Core M
Psychology, Introductory	50	PSY 2012	State Core S
Social Science and History		None	
Sociology, Introductory	50	SYG 2000	State Core S
Spanish Language	50	SPN 1130 (5 credits)	
Spanish Language	63	SPN 1131 (6 credits)	
Western Civilization 1: Ancient Near East to 1648	50	EUH 2000	H and N
Western Civilization 2: 1648 to Present	50	EUH 2001	H and N

[1] The L000 course number has no UF course equivalent. The credit applies to the minimum credits for the degree but does not provide general education credit or count toward the major.

[2] Writing requirement (6000 words).

IB Exam Credit

Students will receive credit for scores of 4 or higher on both higher-level and standard-level examinations.

Scores of 4 or higher on IB French B, German B, Italian B, Latin, and Spanish B examinations fulfill the foreign language proficiency requirement for the College of Liberal Arts and Sciences, the College of Journalism and Communications, and B.A. programs in the College of the Arts.

More IB Information (http://www.ibo.org)

The chart specifies which UF course credit students will earn depending on their score on each IB exam and whether the credit earned will count for general education (p. 23) and the writing requirement (p. 1421) (6,000 words).

Beginning with the 2019 Catalog, students may be awarded a maximum of 30 credit hours for IB exams.

IB Exam	Score of 4	Score of 5-7	Gen Ed Credit
	3 Credits/Exam unless otherwise noted	**6 Credits/Exam** unless otherwise noted	
Biology	BSC 2005/BSC 2005L (4 credits)	BSC 2005/BSC 2005L and BSC 2010/BSC 2010L (8 credits)	BSC 2005, 2010 = State Core B, BSC2005L, 2010L = B
Business and Management	GEB 2015	GEB 2015 and GEB L000[1]	
Chemistry	CHM 1020 and CHM L000[1] (4 credits)	CHM 1020 and CHM L000[1] and CHM 2045/2045L (8 credits)	CHM 1020, 2045 = State Core P, CHM 2045L = P (no Gen Ed credit for CHM L000)
Computer Science	CGS L000[1]	CGS L000[1] & COP L000[1]	
Design Engineering	ETI L000[1]	ETI L000[1]	
Economics	ECO L000[1]	ECO 2013 and ECO 2023 (8 credits)	ECO 2013 = State Core S, ECO 2023 = S (no Gen Ed credit for ECO L000)
Ecosystems and Societies	EVR L000[1]	EVR L000[1]	
English Language and Literature[2]	ENC 1101	ENC 1101 and ENC 1102	State Core C
English Language A: Language and Literature	ENC 1101	ENC 1101[2] and ENC 1102[2]	State Core C
English Literature[2]	ENC 1101	ENC 1101 and LIT 2110	ENC 1101 = State Core C, LIT 2110 = C or H **and** N
Environmental Systems	ISC L000[1]	ISC L000[1]	
Film Studies	FIL L000[1]	FIL L000[1]	
French B	FRE 1131 (5 credits)	FRE 1131 and FRE 2220 (9 credits)	
Further Mathematics (Advanced Math)	MHF 3202	MHF 3202 and MHF L000[1]	MHF 3202 = M (no Gen Ed credit for MHF L000)
Geography	GEA 1000	GEO 2200 and GEO L000[1]	GEA 1000 = S and N, GEO 2200 = P (no Gen Ed credit for GEO L000)

German B	GER 1131 (5 credits)	GER 1131 and GER 2200 (8 credits)	
History of Americas	WOH L000[1]	WOH L000[1] and AMH 2020	AMH 2020 = State Core S and D (no Gen Ed credit for WOH L000)
History of Europe	WOH L000[1]	WOH L000[1] and EUH 2001	EUH 2001 = H and N (no Gen Ed credit for WOH L000)
World History	WOH L000[1]	WOH L000[1]	
Information Technology in a Global Society	CGS L000[1]	CGS L000[1]	
Islamic History	HIS L000[1]	HIS L000[1]	
Italian Language B	ITA 1131 (5 credits)	ITA 1131 and ITA 2220 (9 credits)	H and N
Latin	LAT 1130 (5 credits)	LAT 1130 and LAT L000[1] (6 credits)	
Literature and Performance	THE L000[1]	THE L000[1]	
Marine Science	OCE L000[1]	OCE L000[1]	
Math Studies	MAT 1033	MAT 1033 and MGF 1106	MGF 1106 = State Core M (no Gen Ed credit for MAT 1033)
Mathematics	MAC 1147 (4 credits)	MAC 1147 and MAC 2311 (8 credits)	State Core M
Music	MUL 2010[2]	MUL 2010[2] and MUT L000[1]	MUL 2010 = State Core H and N (no Gen Ed credit for MUT L000)
Philosophy	PHI 2010[2]	PHI 2010[2] and PHI L000[1]	PHI 2010 = State Core H (no Gen Ed credit for PHI L000)
Physics	PHY 2020	PHY 2020/PHY L000[1] and PHY 2053/PHY 2053L (9 credits)	PHY 2020, 2053 = State Core P, PHY 2053L = P (no Gen Ed credit for PHY L000)
Psychology	PSY 2012	PSY 2012 and PSY L000[1]	PSY 2012 = State Core S (no Gen Ed credit for PSY L000)
Social Anthropology	ANT 2410	ANT 2410 and ANT L000[1]	ANT 2410 = S and D (no Gen Ed credit for ANT L000)
Spanish B	SPN 1131 (5 credits)	SPN 1131 and SPN 2200 (5 and 3 credits)	
Theatre Arts	THE 2000	THE 2000 and THE L000[1]	THE 2000 = State Core H and D (no Gen Ed credit for THE L000[1])
Theatre (SL)	THE 2000	THE 2000 and THE L000[1]	THE 2000 = State Core H and D (no Gen Ed credit for THE L000[1])
Visual Arts	ART 2305C	ART 2305C and ART L000[1]	
World Religions	REL 2300	REL 2300 and REL L000[1])	REL 2300 = H and N (no Gen Ed credit for REL L000[1])

1 The L000 course number has no UF course equivalent. The credit applies to the minimum credits for the degree but does not provide credit toward general education, writing requirement, or count toward the major.

2 Writing requirement (6000 words).

Flexible Learning

Contact

352.392.1711
Email (learn@dce.ufl.edu)

Distance and Continuing Education

Distance & Continuing Education (DCE) offers fully online undergraduate courses for college credit through UF Flexible Learning.

The primary purpose of this program is to provide high-quality flexible educational opportunities for students in the State University System, Florida College System, and beyond who are not currently enrolled at UF and:

- Have conflicting schedules
- Need to meet general education or writing requirement
- Need to meet course prerequisites
- Want personal enrichment

Students who are not enrolled at UF should consult an academic advisor at their institution prior to enrolling in courses to ensure transfer of the credit. DCE is not responsible for ensuring that any credit received is transferable.

UF students interested in taking a Flexible Learning course must first consult with their academic advisor. UF students may apply up to two (2)

Flexible Learning courses toward a degree and must seek college dean's office approval to exceed this limit. Advisors and the DCE office will approve access to a Flexible Learning course if the student is below the two (2) course limit and meets at least one (1) of the following criteria:

- The student has a health concern
- There are circumstances preventing the student from physically being on campus and the course is not offered online
- The student requires off-calendar, flexible format solution required for scholarship, tracking, and/or graduation requirements

Students can register for these courses online.
More Info (http://flexible.dce.ufl.edu)

Enrolling in Flexible Learning courses does not require a transcript of previous academic work, nor are students required to apply for, or to be admitted, to the University of Florida to earn college credit. These courses operate on an open enrollment policy and do not follow UF's academic calendar. Registrations are processed and accepted Monday-Friday, excluding UF holidays.

UF Flexible Learning courses are self-paced, allowing students to complete coursework more quickly than typical online or residential courses. Students have a maximum of sixteen (16) weeks to complete their course, but in many courses, may take as few as four (4) weeks. If the on-campus academic semester changes during this time, a non-punitive deferred grade of H will appear on the student's transcript.

When the registration process has been finalized, UF Flexible Learning will send students their expiration date. Students should take note of this date and plan their work accordingly. Any coursework not completed by this date may result in grade penalties.

If students make significant progress in their coursework, but are unable to complete it due to extenuating circumstances, they are expected to contact instructor about receiving an incomplete grade.

Complete Course Listing (http://flexible.dce.ufl.edu/courses)

Placement

Placement is an assessment of a student's level of preparation in a subject. The purpose of placement is to help students enroll in the courses in which they are most likely to be successful.

- Incoming Credit and Credit by Examination Information (p. 1408)

English Composition

All students need to review placement requirements for these courses, unless they already have college credit for an English Composition course.

Students will be placed based on their SAT or ACT verbal score, unless they already have college credit for an English composition course.

- Students with a 640 (or lower) on the verbal portion of the SAT and/or a 28 (or lower) on the verbal portion of the ACT must enroll in ENC 1101.
- Students with a 650 (or higher) on the verbal portion of the SAT or a 29 (or higher) on the verbal portion of the ACT may enroll in any 1000/2000-level composition course beyond ENC 1101. These students should not enroll in ENC 1101.
- **Students with college credit for English Composition (from AICE, AP, CLEP, IB, or dual enrollment)** should consult an advisor to determine which, if any, additional courses are needed to meet degree requirements.

Mathematics

If a student intends to pursue a science or engineering major or intends to go on to a health profession after completing the bachelor's degree, they should take these algebra, precalculus, and calculus courses. A number of business and technical majors require specific math courses. Students should check the information on their majors of interest to determine if algebra/precalculus/calculus are required.
More Info (p. 1378)

Placement is used for the following MAC courses:

Code	Title	Credits
MAC 1105	Basic College Algebra	3
MAC 1140	Precalculus Algebra [1]	3
MAC 1147	Precalculus Algebra and Trigonometry (a fast-paced review of both areas)	4
MAC 2233	Survey of Calculus 1	3
MAC 2311	Analytic Geometry and Calculus 1 (typically recommended for pre-health students)	4

[1] The sequence MAC 1140 and MAC 1114 covers the same material as MAC 1147, but at a slower pace.

The math course(s) you take will depend on what your major requires (or if you are pre-health), whether you have incoming math credit, the math course you took last year and whether you were able to use a calculator during exams, whether you want to strengthen your foundation before moving on to new material, and your ALEKS placement score.

To determine which math course (if any) is required for a major, please check the requirements for that major (p. 1378). If a student's major requires MAC 2234 or MAC 2312 or higher, they must have credit for the prerequisite course. If a student has credit via AP, consult the AP Scores for Calculus Placement (p. 1408) table. If not, consult with an academic advisor.

Some graduate programs in the health professions such as pharmacy, optometry, and veterinary medicine may require calculus as a prerequisite to admission. Consult the Pre-Health Pre-Requisite Course Chart (https://www.advising.ufl.edu/pre-health/apply/prepare/academic-preparation) for more information.

- **If a major requires no particular math course,** students may take Gen Ed math courses such as MGF 1106 or MGF 1107 without any placement.
- **If a student needs one of the MAC courses listed above and doesn't have incoming credit, they should take the ALEKS placement exam,** and then discuss which math course should be taken with an advisor.
- **If a student has incoming math credit,** they may use that as placement into MAC courses if the credit appears on their UF transcript or the student provides proof of credit. However, the ALEKS placement is the best predictor of success in UF MAC courses. Even if a student has credit, they are **strongly encouraged to take ALEKS.** Taking ALEKS will assess a student's *current* knowledge base and its fit with the UF curriculum. After taking ALEKS, the student should discuss which math course they should take with an advisor.

It can be helpful for students to take a lower course or even retake a course to strengthen their foundation before moving on to a higher class. A student's ALEKS score can help assess their current preparation. Consult with an academic advisor if unsure.

ALEKS

Placement via ALEKS Score

Majors that Require MAC 1105, MAC 1140, MAC 1147, or MAC 2311; or for Pre-Health

ALEKS Score	May begin with the course in bold (or a lower course)
0 – 34%	**MAC 1105**; MAC 1140; MAC 1114; MAC 2311
35 – 49%	**MAC 1140**; MAC 1114; MAC 2311
50 – 74%	**MAC 1147**; MAC 2311
75% and Above	**MAC 2311**

Majors that Require MAC 2233

ALEKS Score	May begin with the course in bold (or a lower course)
0 – 34%	**MAC 1105**; MAC 1140; MAC 2233
35 – 49%	**MAC 1140**; MAC 2233
50% and Above	**MAC 2233**

Incoming Credit

Placement via Incoming Credit

If a student has earned credit with a C or better for:

- MAC 1105: take MAC 1140 (if needed)
- MAC 1140: take MAC 1114 or MAC 2233 (if needed, course depends on major requirements)
- MAC 1147 (or both MAC 1140 and MAC 1114): take MAC 2311 if needed. *Credit must be in progress at UF, completed and on the student's UF transcript or the student must provide proof of incoming credit.*
- *It may be helpful for students to retake a course to strengthen their foundation before moving on to a higher class. This is especially true if the incoming credit course was taken more than one year ago or if the student earned a grade lower than B. A student's ALEKS score can help assess their current preparation. Consult with an academic advisor if unsure.*

AICE, AP, or IB Exam Credit

Refer to award of incoming credits to see which courses earn credit. For courses through MAC 2311, ALEKS is still the best predictor of success in MAC courses at UF, so students are encouraged to take ALEKS and follow the score guidelines.

Transfer Credit

Earning the minimum grades in prerequisite courses does not guarantee success in the next math course. The Department of Mathematics encourages students to take the ALEKS exam even if they have credit for a MAC course. Quite often, a student's skills may need review and placement assessment can provide information and specific areas for additional study.

Please read the complete information about the mathematics placement exam (https://www.student.ufl.edu/aleksinfo.html).

AP Scores for Calculus

Placement via AP Scores for Calculus

UF offers two introductory calculus courses: MAC 2233 and MAC 2311 as well as subsequent courses in both sequences. Students should consult the majors (p. 1378) section to determine which calculus course(s) may be required for their major.

Calculus AB or BC

AP Exam Score	Register in	Additional Information
1 or 2	MAC 1105 or MAC 1140 or MAC 1147	Students with a score of 1 or 2 on an AP Calculus exam must take the ALEKS placement exam (https://student.ufl.edu/aleksinfo.html) to determine the course for which they are prepared. Then consult the Algebra/Precalculus placement information to determine the correct course.

Calculus AB

AP Exam Score	Register in	Additional Information
3	MAC 2311	Students will receive credit for MAC 2311. If the student's requirements include MAC 2312 or higher, they should retake MAC 2311.
4	MAC 2312	Students may repeat MAC 2311 or continue on to MAC 2312 (if needed for their requirements). Check with major department to determine if there is major-specific advice regarding repeating.[1]
5	MAC 2312	If a student needs MAC 2312, they should have appropriate background for that course.[1]

[1] Course descriptions (p. 1455)

Calculus BC

AP Exam Score	Register in	Additional Information
3	MAC 2311	Students will receive credit for MAC 2311. If the student's requirements include MAC 2312 or higher, they should retake MAC 2311.[1]
4	MAC 2312	Students will receive credit for MAC 2312. If the student's requirements include MAC 2313 or higher, they may retake MAC 2312 or go on to MAC 2313 if they are very confident of their background. Check with major department to determine if there is major-specific advice regarding repeating.[1]
5	MAC 2313	If a student needs MAC 2313, they should have appropriate background for that course. Check with major department to determine if there is major-specific advice regarding repeating.

[1] Course descriptions (p. 1455)

General Chemistry

If a student intends to pursue a science or engineering major or intends to go on to a health profession after completing the bachelor's degree, they should take these general chemistry courses. Students should check the information on their majors of interest to determine if general chemistry is required.

The general chemistry sequence CHM 2045/CHM 2045L and CHM 2046/CHM 2046L meets the preprofessional requirements for many science and engineering majors. CHM 2095/CHM 2095L and CHM 2096/CHM 2046L is an alternate general chemistry sequence specifically for engineering majors.

Placement into CHM 2045 **or** CHM 2095 **Requires**

- Successful completion with a grade of C or better of MAC 1147 (or both MAC 1140 and MAC 1114) or higher

AND

- Successful completion with a grade of C or better of CHM 1025
  OR
  a 75% on the ALEKS math placement exam.

If a student enrolls in and successfully completes CHM 1025 and MAC 1147 (or MAC 1140 and MAC 1114), they can enroll in CHM 2045 or CHM 2095 the next semester. Students who enroll in CHM 1025 but do not successfully complete with a C or better cannot place into CHM 2045 using an ALEKS score of 75%. Such students will need to repeat CHM 1025 and earn a C or better to go on to CHM 2045.

Students with credit for CHM 2045 via AP and IB scores or dual enrollment (with a minimum grade of C) should discuss their next chemistry course with an advisor. Students who wish to repeat CHM 2045, take CHM 2095 or go on to CHM 2046/CHM 2096 must have successfully completed MAC 1147, MAC 1140 and MAC 1114, or higher or the equivalent as determined by the Mathematics Department.

Students who wish to enroll in CHM 2047, the one-semester General Chemistry, and its co-requisite laboratory CHM 2047L, must meet the following conditions:

- AICE, AP, or IB credit for at least CHM 2045 and laboratory
- Approval of the Honors Program office or the Department of Chemistry.

Foreign Languages

College-level foreign language is required by several programs: Liberal Arts and Sciences and the B.A. programs in the College of the Arts have a proficiency requirement; students in Journalism and Communications may choose between foreign language proficiency or a quantitative option. Construction management majors must complete one semester of Spanish.

French

- Students with no prior study of French or a maximum of French 1 on their high school transcript may enroll directly in FRE 1130. No placement exam is required.
- Students with French 2 on their high school transcript may enroll directly in FRE 1134. No placement test is required.
- Students with French 3 or 4 on their high school transcript may enroll directly in FRE 2220, but are strongly encouraged to speak with the department to determine the best course based on their background. Students with French 3 or 4 may NOT enroll in 1000-level FRE courses without the permission of the French lower-division coordinator.
- Students who have taken French exams via Advanced International Certificate of Education (AICE), Advanced Placement (AP), College Level Examination Program (CLEP), or International Baccalaureate (IB), should consult the French Placement and Course Equivalency (http://languages.ufl.edu/files/french-placement-handout-2019-revised.pdf) page to determine whether they have received credit for a French course and which course to take next.
- Students who wish to demonstrate proficiency in French in order to meet the College of Liberal Arts and Sciences (CLAS), College of Journalism and Communications (JM), or B.A. in the College of the Arts (FA) degree requirements must do one of the following:
  - Complete the terminal course in the Beginning French sequence (or higher) with a satisfactory grade
  - Earn sufficient scores on an AICE, AP, CLEP, or IB exam.
  - Earn a passing score on the Foreign Language Proficiency Exam (FLPE) (https://teachingcenter.ufl.edu/testing/flpe)

Spanish

Students with any prior study or knowledge of Spanish who wish to enroll in a Spanish course are required to take the WebCAPE online placement test (http://spanishandportuguese.ufl.edu/undergraduate-programs/lower-division-spanish-program/spanish-placement), which is designed to help them determine the best course based on their background.

- Students who took a language other than Spanish in high school are not required to take this test. They may enroll in SPN 1130.
- Students who have taken Spanish exams via Advanced International Certificate of Education (AICE), Advanced Placement (AP), College Level Examination Program (CLEP), or International Baccalaureate (IB) are encouraged but not required to take the WebCAPE and should consult the Spanish Placement and Course Equivalency (http://spanishandportuguese.ufl.edu/files/SPNPlacementEquivalencyCharts.pdf) page to determine whether they have received credit for a Spanish course and which course to take next.
- Students who wish to demonstrate proficiency in Spanish in order to meet the College of Liberal Arts and Sciences (CLAS), College of Journalism and Communications (JM), or B.A. in the College of the Arts (FA) degree requirements must do one of the following:
  - Complete the terminal course in the Beginning Spanish sequence (or higher) with a satisfactory grade
  - Earn sufficient scores on an AICE, AP, CLEP or IB exam.
  - Earn a passing score on the Foreign Language Proficiency Exam (FLPE) (https://teachingcenter.ufl.edu/testing/flpe)

Anyone with any prior study or knowledge of Spanish MUST provide a test score to register for a Spanish course.

A passing grade in SPN 1131 or a higher level SPN courses successfully fulfills the foreign language proficiency requirement for the College of Liberal Arts and Sciences, the College of Journalism and Communications and B.A. programs in the College of the Arts. Students wishing to satisfy the foreign language proficiency requirement by examination must do so through the appropriate AP, IB, or AICE Spanish scores. WebCAPE is only a placement exam.

Other Languages

Students with a prior background in languages other than French or Spanish should consult with the department regarding placement. Students who wish to demonstrate proficiency in that language in order to meet the College of Liberal Arts and Sciences (CLAS), College of Journalism and Communications (JM), or B.A. in the College of the Arts (FA) degree requirements must do one of the following:

- Complete the terminal course in the Beginning sequence (or higher) of that language with a satisfactory grade
- Earn sufficient scores on an AICE, AP, CLEP or IB exam.
- Earn a passing score on the Foreign Language Proficiency Exam (FLPE) (https://teachingcenter.ufl.edu/testing/flpe)
- Consult the department regarding proficiency for languages not offered by the FLPE.

Preprofessional Advising

Pre-Health

Pre-Health Advising is offered to students from all UF majors who intend to pursue a graduate program in the health professions such as medical, dental, veterinary, pharmacy, physician assistant, optometry, physical therapy, or occupational therapy school. Pre-Health students can choose almost any major.

All pre-health students are encouraged to enroll in Pre-Health Essentials, a non-credit e-learning resource offered by the Pre-Health Advising Office. Pre-Health Essentials offers workshops and resources for pre-health students to help explore and prepare for a healthcare profession.
More Info (http://www.advising.ufl.edu/prehealth)

Pre-Health Students

Plan to complete the following courses, which are the basic prerequisites for many pre-health graduate programs. However, some health professions do not require all of these courses, and some require more. Also, requirements vary from program to program, so you should carefully investigate the requirements of the institutions to which you plan to apply.

Mathematics

At least two semesters of college-level mathematics; one semester of statistics (STA 2023) is required. Calculus (MAC 2311 or MAC 3472) is recommended for pre-medical students, and required for pre-pharmacy and pre-optometry students.

General Chemistry

Code	Title	Credits
Select one of the following options:		5-8
Option A:		
CHM 2045	General Chemistry 1	
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	
& 2046L	and General Chemistry 2 Laboratory	
Option B:		
CHM 2045	General Chemistry 1	
& 2045L	and General Chemistry 1 Laboratory	
CHM 2051	Honors General Chemistry 2	
& CHM 2046L	and General Chemistry 2 Laboratory	
Option C:		
CHM 2095	Chemistry for Engineers 1	
& CHM 2045L	and General Chemistry 1 Laboratory	
CHM 2096	Chemistry for Engineers 2	
& CHM 2046L	and General Chemistry 2 Laboratory	
Option D		
CHM 2047	One-Semester General Chemistry	
& 2047L	and One-Semester General Chemistry Laboratory	

Organic Chemistry

Code	Title	Credits
Select one of the following options:		8-10
Option A:		
CHM 2210	Organic Chemistry 1	
CHM 2211	Organic Chemistry 2	
CHM 2211L	Organic Chemistry Laboratory	
Option B:		
CHM 3217	Organic Chemistry/Biochemistry 1	
CHM 3218	Organic Chemistry/Biochemistry 2	
CHM 2211L	Organic Chemistry Laboratory	

Biochemistry

One semester is required by many professional schools. BCH 4024 or CHM 3218

Physics

Code	Title	Credits
Select one of the following options:		8-10
Option A:		
PHY 2053	Physics 1	
& 2053L	and Laboratory for Physics 1	
PHY 2054	Physics 2	
& 2054L	and Laboratory for Physics 2	
Option B:		
PHY 2048	Physics with Calculus 1	
& 2048L	and Laboratory for Physics with Calculus 1	
PHY 2049	Physics with Calculus 2	
& 2049L	and Laboratory for Physics with Calculus 2	
Option C:		
PHY 2060	Enriched Physics with Calculus 1	
PHY 2061	Enriched Physics with Calculus 2	
PHY 2048L	Laboratory for Physics with Calculus 1	
PHY 2049L	Laboratory for Physics with Calculus 2	

Biology

Code	Title	Credits
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	
BSC 2011	Integrated Principles of Biology 2	4
& 2011L	and Integrated Principles of Biology Laboratory 2	

English

At least two semesters

Additional Course Requirements

Pre-Medical Students

Should also take:

Code	Title	Credits
PSY 2012	General Psychology	3
SYG 2000	Principles of Sociology	3

Pre-Dental Students

Should also take:

Code	Title	Credits
Select one of the following:		4-5
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms (non-microbiology majors)	

MCB 3023	Principles of Microbiology
& 3023L	and Principles of Microbiology Laboratory (microbiology majors)

Pre-Optometry Students

Should also take:

Code	Title	Credits
Select one of the following:		4-5
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms	
MCB 3023	Principles of Microbiology	
& 3023L	and Principles of Microbiology Laboratory	
Also recommended:		
APK 2100C	Applied Human Anatomy with Laboratory	4
APK 2105C	Applied Human Physiology with Laboratory	4
PSY 2012	General Psychology	3

Pre-Pharmacy Students

Should also take:

Code	Title	Credits
Select one of the following:		8-9
APK 2100C	Applied Human Anatomy with Laboratory	
& APK 2105C	and Applied Human Physiology with Laboratory	
ZOO 3713C	Functional Vertebrate Anatomy	
& PCB 4723C	and Physiology and Molecular Biology of Animals (acceptable for UF College of Pharmacy)	
Select one of the following:		4-5
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms (non-microbiology majors)	
MCB 3023	Principles of Microbiology	
& 3023L	and Principles of Microbiology Laboratory (microbiology majors)	
Also recommended:		
ECO 2023	Principles of Microeconomics	4
or ECO 2013	Principles of Macroeconomics	

Pre-Veterinary Students

Should also take:

Code	Title	Credits
Select one of the following:		4-5
MCB 3020	Basic Biology of Microorganisms	
& 3020L	and Laboratory for Basic Biology of Microorganisms (non-microbiology majors)	
MCB 3023	Principles of Microbiology	
& 3023L	and Principles of Microbiology Laboratory (microbiology majors)	
Select one of the following:		3-4
PCB 3063	Genetics (non-microbiology majors)	
or AGR 3303	Genetics	
ANS 3384C	Genetics of Domestic Animals	
Also recommended:		
ANS 3006	Introduction to Animal Science	3
ANS 3440	Principles of Animal Nutrition	4

Pre-Physician Assistant Course Recommendations

Code	Title	Credits
CHM 2045	General Chemistry 1	4
& 2045L	and General Chemistry 1 Laboratory	
CHM 2046	General Chemistry 2	4
& 2046L	and General Chemistry 2 Laboratory	
CHM 2210	Organic Chemistry 1	3
or CHM 2200	Fundamentals of Organic Chemistry	
BSC 2010	Integrated Principles of Biology 1	4
& 2010L	and Integrated Principles of Biology Laboratory 1	

BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2	4
APK 2100C	Applied Human Anatomy with Laboratory	4
APK 2105C	Applied Human Physiology with Laboratory	4
Select one of the following:		4-5
MCB 3020 & 3020L	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	
MCB 3023 & 3023L	Principles of Microbiology and Principles of Microbiology Laboratory	
STA 2023	Introduction to Statistics 1	3
HSC 3537	Health and Medical Terminology	3
Also recommended:		
PSY 2012	General Psychology	3
PCB 3063	Genetics	4
CHM 2210	Organic Chemistry 1	3
CHM 2211 & 2211L	Organic Chemistry 2 and Organic Chemistry Laboratory	5
BCH 4024 or CHM 3218	Introduction to Biochemistry and Molecular Biology Organic Chemistry/Biochemistry 2	4
SPC 2608 or AEC 3030C	Introduction to Public Speaking Effective Oral Communication	3

Pre-Law

UF's pre-law advisors offer students assistance as they explore their interest in law and provide guidance during the law school application process. Students are encouraged to utilize UF's pre-law resources:

- **Pre-law Website**: Review pre-law tips, timelines and resources at www.advising.ufl.edu/prelaw.
- **Pre-law Listserv**: Join the listserv to receive pre-law announcements and stay connected with UF's abundant pre-law activities. Instructions are available at: www.advising.ufl.edu/pre-law/pre-law-listserv/.
- **Pre-law Advising:** Pre-law advisors are located in the College of Liberal Arts and Sciences Academic Advising Center in Farrior Hall. Students may call to make an appointment (352.392.1521) or come in as a walk-in. In addition, students may reach the pre-law advisors at prelaw@advising.ufl.edu.

Choosing a Major

Pre-law students must develop analytic and problem-solving skills, critical reading abilities, writing skills, oral communication and listening abilities, research skills, and organization and priority management skills. These skills can be attained through virtually any major in combination with a wide variety of complementary electives. There is no "pre-law" major at UF; students should choose a major in which they have a true interest and select a broad, diverse, and challenging array of courses from demanding instructors in order to prepare for success in law school.

Exploration

Pre-law students are encouraged to carefully assess their interest in and motivation for attending law school. The pre-law timeline, featured on the website, encourages you to shadow attorneys, conduct informational interviews, complete internships, and speak to admission officers to learn about law schools and the legal profession. Students should also consider studying overseas, writing an honors thesis, and getting involved in leadership opportunities. These activities will enhance the depth and value of students' undergraduate education and may also distinguish students from other top law school applicants.

Student Responsibilities

Academic Honesty

In 1995 the UF student body enacted an honor code and voluntarily committed itself to the highest standards of honesty and integrity. When students enroll at the university, they commit themselves to the standard drafted and enacted by students.
More Info (https://sccr.dso.ufl.edu/students/student-conduct-code)

Preamble

In adopting this honor code, the students of the University of Florida recognize that academic honesty and integrity are fundamental values of the university community. Students who enroll at the university commit to holding themselves and their peers to the high standard of honor required by the honor code. Any individual who becomes aware of a violation of the honor code is bound by honor to take corrective action. The quality of a University of Florida education is dependent upon community acceptance and enforcement of the honor code.

The Honor Pledge

We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.

On all work submitted for credit by students at the university, the following pledge is either required or implied: On my honor, I have neither given nor received unauthorized aid in doing this assignment.

The university requires all members of its community to be honest in all endeavors. A fundamental principle is that the whole process of learning and pursuit of knowledge is diminished by cheating, plagiarism and other acts of academic dishonesty. In addition, every dishonest act in the academic environment affects other students adversely, from the skewing of the grading curve to giving unfair advantage for honors or for professional or graduate school admission. Therefore, the university will take severe action against dishonest students. Similarly, measures will be taken against faculty, staff and administrators who practice dishonest or demeaning behavior.

Student Responsibility

Students should report any condition that facilitates dishonesty to the instructor, department chair, college dean, Student Honor Council or Student Conduct and Conflict Resolution in the Dean of Students Office.

Faculty Responsibility

Faculty members have a duty to promote honest behavior and to avoid practices and environments that foster cheating in their classes. Teachers should encourage students to bring negative conditions or incidents of dishonesty to their attention. In their own work, teachers should practice the same high standards they expect from their students.

Administration Responsibility

As highly visible members of our academic community, administrators should be ever vigilant to promote academic honesty and conduct their lives in an ethically exemplary manner.

Student Conduct Code

Students enjoy the rights and privileges that accrue to membership in a university community and are subject to the responsibilities that accompany that membership. For a system of effective campus governance, it is incumbent upon all members of the campus community to notify appropriate officials of any violations of regulations and to assist in their enforcement. The university's conduct regulations, available to all students, are set forth in Florida administrative code. Questions can be directed to the Dean of Students Office.
More Info (https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code)

Alcohol and Drugs

The use of alcohol and other drugs can have a negative impact on judgments and reactions, health and safety, and may lead to legal complications as well.

The university's principal role is to engage in education that leads to high standards and respectful conduct. When those are compromised, the university will take disciplinary action against organizations and individuals violating either the law or the unreasonable use of alcohol. It also must provide help for students who are alcohol-dependent. The university will deal severely with students convicted of the illegal possession, use or sale of drugs.

What the University Community Can Do to Prevent Alcohol Abuse and Drug Use

Students can help control substance abuse by declining to use or to condone the use of drugs and by insisting that organizations and individuals use alcohol within the bounds of the law and reasonable conduct. Students should make an effort to prevent persons who have abused alcohol or used drugs from harming themselves or others, especially while driving a motor vehicle. They should encourage those needing professional help to seek it. The same standards and regulations apply equally to faculty, staff and administration.

Relations between People and Groups

One of the major benefits of higher education and membership in the university community is greater knowledge of and respect for other religious, racial and cultural groups. Indeed, genuine appreciation for individual differences and cultural diversity is essential to the environment of learning. Another major aspect of university life involves sexual relationships. Sexual attitudes or actions that are intimidating, harassing, coercive or abusive, or that invade the right to privacy of the individual are not acceptable. Only in an atmosphere of equality and respect can all members of the university community grow.

Service to Others

An important outcome of a University of Florida education should be a commitment to serving other people. This sense of service should be encouraged throughout the institution by faculty, administration, staff and students. Through experience in helping individuals and the community, students can put into practice the values they learn in the classroom.

Standard of Ethical Conduct

Honesty, integrity and caring are essential qualities of an educational institution, and the concern for values and ethics is important to the whole educational experience. Individual students, faculty and staff members, as well as the university's formal organizations, must assume responsibility for these qualities. The concern for values and ethics should be expressed in classes, seminars, laboratories and in all aspects of university life. By definition, the university community includes members of the faculty, staff and administration as well as students.

Education at the University of Florida is not an ethically neutral experience. The university stands for, and seeks to inculcate, high standards. Moreover, the concern for values goes well beyond the observance of rules.

A university is a place where self-expression, voicing disagreement and challenging outmoded customs and beliefs are prized and honored. However, all such expressions need to be civil, manifesting respect for others.

As a major sector in the community, students are expected to follow the university's rules and regulations that, by design, promote an atmosphere of learning. Faculty, staff and administrators are expected to provide encouragement, leadership and example. While the university seeks to educate and encourage, it also must restrict behavior that adversely affects others. The Standard of Ethical Conduct summarizes what is expected of the members of the university community.

Study Abroad Opportunities

Study Abroad Services offers students the opportunity to study overseas in a wide range of academic and cultural settings. The office coordinates numerous year-long, semester, summer and short-term programs in more than 80 countries on all seven continents.

Credits earned in study abroad programs may count toward a major or minor and can satisfy general education, language and summer residency requirements.

The International Center (http://www.ufic.ufl.edu)
170 Hub (http://campusmap.ufl.edu/?loc=0032)

352.273.1528 voice
352.392.5575 fax
studyabroad@ufic.ufl.edu

Writing Requirement

The University of Florida requires all students [1] to complete a writing requirement. AICE, AP, CLEP, and IB examination credit (p. 1408) as well as dual enrollment or transfer credit may count toward this requirement.

To graduate, students must complete courses that involve substantial writing for a total of 24,000 words.

Courses that count toward this requirement will be in one of three categories:

- 2: Coursework with at least 2,000 words
- 4: Coursework with at least 4,000 words
- 6: Coursework with at least 6,000 words

Some sections of qualified courses may not offer substantial writing in a particular term. In the schedule of courses (http://www.registrar.ufl.edu/soc), the course sections and amount of writing credit awarded (2, 4, or 6 thousand) are identified for a given term.

The writing course grade assigned by the instructor has two components: the writing component and a course grade. Therefore, to receive writing credit, students must satisfactorily complete the writing component and receive a minimum grade of C (2.0) for the course. It is possible to not meet the writing requirement and still earn a minimum grade of C in a class, so students should review their degree audit after receiving their grade to verify receipt of credit for the writing component.

Courses intended to satisfy the writing requirement may not be taken S-U.

The writing must be evaluated on content, organization and coherence, effectiveness, style, grammar, and punctuation. Assignments must be returned to students with a grade and comments that address the students' writing skills. Consequently, feedback on all assignments should be provided by the last day of class, or if provided electronically, by the end of finals.

Evaluation of writing is based on individual work. Class notes, quizzes and in-class writing assignments or essay examinations may not be counted. Team-written documents may not be counted for credit unless clear individual sections are identified for grading, such that an individual student's writing may be evaluated and graded. Drafts cannot be counted separately from final drafts as part of the total number of words completed during the course.

Students may not take the same course multiple times to meet the writing requirement, unless the course allows for multiple registration based upon rotating course content.

All courses that require writing will not necessarily count toward the writing requirement. In writing requirement courses, students will be evaluated as described above.

1 Except those transferring to UF with an A.A. degree from a Florida public college or an A.A. certificate from a Florida public state university.

Academic Regulations

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Academic Progress Policies

Regulations for academic probation and dismissal follow the academic standards of the university and require the maintenance of grade point averages and reasonable conformance to a program of study.

A minimum grade point average of 2.0 is required to graduate from any UF undergraduate degree program. Any college may specify additional academic standards and students are responsible for observing these regulations.

The probation and dismissal regulations that apply to undergraduate students also apply to postbaccalaureate students. Notations on the student's academic record shall reflect all actions taken to enforce these regulations; some of these notations can be permanent.

Academic Standing

The University of Florida considers students to be in good standing if they are eligible to continue or to re-enroll at the university, even if on probation.

Colleges may choose not to consider students for admission and may deny continuation in a degree program if the student fails to maintain reasonable academic progress, as specified by the college or department.

Policies on academic standing, probation and dismissal are based on the possibility that a student can overcome academic difficulty and make appropriate progress toward a degree.

Petitions

Students may file a petition for a waiver of a deadline or regulation if they can document extenuating circumstances that led to their failure to meet or conform to the deadline/regulation.

In general, petitions for waiver of an academic regulation for the current term should be directed to the school or college in which the student is enrolled. For example, petitions to drop or add after the drop/add period should be presented to the school or college. Exceptions to the course load regulation are to be presented to the school or college. Petitions approved by the school or college must be reported to the Office of the University Registrar before the action is official.

All other petitions should be presented to the Office of the University Registrar, which will refer them to the University Student Petitions Committee. Petitions pertaining to academic records approved by the committee will be reflected on the student's transcript.

Per BOG Regulation 7.002(11), all requests for a refund of fees must be submitted to the university within six months of the close of the semester to which the refund is applicable. Any request for a refund of fees submitted outside this timeframe will not be reviewed.

Detailed information on petition procedures is available from the student's college or the Office of the University Registrar.
More Info (http://www.registrar.ufl.edu/currents/petitioninstructs.html)

A student seeking waiver of a regulation through petition must remember that no petitions committee can direct an instructor to change a grade, nor can the University Student Petitions Committee require any college or school to grant a degree by waiving any regulation.

Probation

The intent of academic probation is to serve formal notice that a student may not be making satisfactory progress. The conditions of academic probation are intended to specify the achievement standards required to graduate, to identify unsatisfactory academic performance at an early date, to provide occasion for counseling, and to give students whose ultimate success is in question further opportunity to demonstrate their ability to meet academic expectations.

Academic probation can occur for the following reasons:

- Students may be placed on probation by their college for failure to maintain normal academic progress in their degree program. College probation will be removed when the college determines that satisfactory academic progress has been demonstrated.
- Undergraduate students with less than a 2.0 cumulative grade point average for University of Florida coursework.
- Academic probation will be continued for all undergraduate students as long as they have less than a 2.0 cumulative grade point average. It will be removed when the grade point average becomes 2.0 or higher. Should the grade point average fall far enough, the student will be dismissed based on Dismissal policy.

More Info (p. 1425)

Dismissal and Suspension

Academic dismissal from the university denies registration privileges to students who have a cumulative GPA at or below that listed below (given their UF Cumulative Credits). The student will be dismissed from the university and any advance registrations will be cancelled.

- Students who are dismissed will not be permitted to enroll again unless they complete an application for readmission by the application deadline, and the college approves readmission. A student who is readmitted after academic dismissal will be dismissed again if their grade point average is at or below the corresponding GPA (given their UF Cumulative Credits) indicated in the table at the end of any term.
- UF Cumulative Credits only include credits taken toward the GPA and do not include credits for courses taken S/U, credits dropped/withdrawn resulting in a W on the transcript, or credits not counting in the UF Cumulative GPA due to repeat or non-degree policy.
- An undergraduate student under any kind of dismissal or suspension at the University of Florida may earn credit toward a degree at the University of Florida by taking courses at another institution. Upon the student's reinstatement to the University of Florida, the University will accept credit from courses that fall under the Florida statewide course numbering system. A reinstated student may follow standard practice of consulting the student's degree-granting unit to consider whether credit for courses not under the state course numbering system and earned while dismissed or suspended will be accepted. Credits earned at another institution and accepted by the University of Florida will not count towards the UF GPA calculation but will factor into the student's total credit hour count towards excess hours.

Grade Point Deficits

UF Cumulative Credits	Student Dismissed if GPA is Equal to or Less Than
1	N/A
2	N/A
3	N/A
4	N/A
5	N/A
6	N/A
7	N/A
8	0.12
9	0.33
10	0.50
11	0.63
12	0.75
13	0.84
14	0.92
15	1.00
16	1.06
17	1.11
18	1.16
19	1.21
20	1.25
21	1.28
22	1.31
23	1.34
24	1.37
25	1.40
26	1.42
27	1.44
28	1.46
29	1.48
30	1.50
31	1.51
32	1.53
33	1.54
34	1.55
35	1.57
36	1.58
37	1.59
38	1.60
39	1.61
40	1.62
41	1.63
42	1.64
43	1.65
44	1.65
45	1.66
46	1.67
47	1.68
48	1.68
49	1.69
50	1.70
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97	1.84
98	1.84
99	1.84
100	1.85
101	1.85

102	1.85
103	1.85
104	1.85
105	1.85
106	1.85
107	1.85
108	1.86
109	1.86
110	1.86
111	1.86
112	1.86
113	1.86
114	1.86
115	1.86
116 or more	1.87

University Ombuds

When an academic regulation appears to result in undue hardship, students may petition for waiver of the regulation. If a student wishes to appeal a decision of the University Student Petitions Committee, the student must contact the Office of the Ombuds.
More Info (http://www.ombuds.ufl.edu)

Attendance Policies

Absences

Students are responsible for satisfying all academic objectives as defined by the instructor. Absences count from the first class meeting.

In general, acceptable reasons for absence from or failure to participate in class include illness, serious family emergencies, special curricular requirements (e.g., judging trips, field trips, professional conferences), military obligation, severe weather conditions, religious holidays, and participation in official university activities such as music performances, athletic competition or debate. Absences from class for court-imposed legal obligations (e.g., jury duty or subpoena) must be excused. Other reasons also may be approved.

Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence.

Students cannot participate in classes unless they are registered officially or approved to audit with evidence of having paid audit fees. The Office of the University Registrar provides official class rolls to instructors.

If a student does not participate in at least one of the first two class meetings of a course or laboratory in which they are registered, and they have not contacted the department to indicate their intent, the student can be dropped from the course. Students must not assume that they will be dropped, however. The department will notify students if they have been dropped from a course or laboratory.

The university recognizes the right of the individual professor to make attendance mandatory. After due warning, professors can prohibit further attendance and subsequently assign a failing grade for excessive absences.

Religious Holidays

At the University of Florida, students and faculty work together to allow students the opportunity to observe the holy days of their faith. A student should inform the faculty member of the religious observances of their faith that will conflict with class attendance, with tests or examinations, or with other class activities prior to the class or occurrence of that test or activity. The faculty member is then obligated to accommodate that particular student's religious observances. Because students represent a myriad of cultures and many faiths, the University of Florida is not able to assure that scheduled academic activities do not conflict with the holy days of all religious groups. Accordingly, individual students should make their need for an excused absence known in advance of the scheduled activities.

The Florida Board of Education and state law govern university policy regarding observance of religious holidays.

The following guidelines apply:

- Students, upon prior notification to their instructors, shall be excused from class or other scheduled academic activity to observe a religious holy day of their faith.
- Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence.
- Students shall not be penalized due to absence from class or other scheduled academic activity because of religious observances.

If a faculty member is informed of or is aware that a significant number of students are likely to be absent from class because of a religious observance, the faculty member should not schedule a major exam or other academic event at that time.

A student who is to be excused from class for a religious observance is not required to provide a second party certification of the reason for the absence. Furthermore, a student who believes that they have been unreasonably denied an education benefit due to religious beliefs or practices may seek redress through the student grievance procedure.

Illness Policy

If a student is absent from classes or examinations because of illness, they should contact their instructors. Students should contact their college by the deadline to drop a course for medical reasons. Students can petition the Dean of Students Office (https://www.dso.ufl.edu) to drop a course for medical reasons. The university's policy regarding medical excuse (http://shcc.ufl.edu/forms-records/excuse-notes) from classes is maintained by the Student Health Care Center.

Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence.

Twelve-Day Rule

Students who participate in university-sponsored athletic or scholarly activities are permitted to be absent 12 scholastic days per semester without penalty. A scholastic day is any day on which regular class work is scheduled as defined in the approved university calendar.
More Info (p. 1442)

The student or student's advisor must notify the instructor as early as possible prior to the anticipated absence to allow ample time for accommodations. Instructors must be flexible and not penalize students when re-scheduling during-term and final exams, class assignments, and other required activities and must follow the UF Attendance Policy

herein and UF Examination Policies. As noted in the UF Examination Policies, during-term exams should be re-scheduled no later than before the end of the semester, while final exams no later than 90 days after the originally scheduled exam time. However, instructors are encouraged to re-schedule final and during-term exams, assignments, and other activities as soon as possible after the last day of the absence and must not penalize the student in any way.
More Info (p. 1431)

A group's schedule that requires absence of more than 12 scholastic days should be adjusted so that no student is absent from campus more than 12 scholastic days. Students who previously have been warned in writing by their instructor about the impact of absences on their individual class performance should not incur additional absences, even if they have not been absent 12 scholastic days. The student is responsible to maintain satisfactory academic performance and attendance.

Civic Literacy Requirement

Students Subject to the Requirement

Students who Need to Complete the Requirement

1. First time in College (FTIC) students without an AA degree from a State of Florida University or Florida College System institution entering Fall 2018 or after.

OR

2. Students transferring to UF from an Out of State or Private Institution Fall 2018 or later.

OR

3. Students who entered a State of Florida University System or Florida College System institution Fall 2018 or after and transferred to UF, and did NOT meet the requirement at the previous institution.

Note: The University of Florida has elected to include 2018 Summer B admits as part of the Fall 2018 cohort. Therefore, Summer B 2018 admits are included in the cohort to meet this requirement.
More Info (http://undergrad.aa.ufl.edu/for-students)

Options for Students to Meet the Civic Literacy Requirement

1. Successfully passing either POSX041 American Government or AMHX020 Introductory Survey Since 1877. Each of the courses must include the following competencies:
   - Understanding of the basic principles and practices of American democracy and how they are applied in our republican form of government,
   - An understanding of the United States Constitution and its application,
   - Knowledge of the founding documents and how they have shaped the nature and functions of our institutions of self-government, and
   - An understanding of landmark Supreme Court cases, landmark legislation and landmark executive actions and their impact on law and society.

   OR
2. Achieving the standard score on one of the following assessments:

Assessment	Standard Score
U.S. Citizenship and Immigration Services Naturalization Test-Civics (U.S. history and government) with supplemental questions	60
Advanced Placement Government and Politics: United States	3
Advanced Placement United States History	4
CLEP American Government	50

NOTE: Dual enrollment courses taken prior to Fall 2018 do not satisfy the civic literacy requirement as those courses did not include the competencies required by statute until Fall 2018.

Board of Governors Definitions

FTIC

FTIC freshmen are defined as students who have earned a standard high school diploma from a Florida public or regionally accredited high school, or its equivalent, and who have earned fewer than twelve (12) semester hours of transferable college credit since receiving a standard high school diploma or its equivalent (Board of Governors Regulation 6.002).

- High school students who earn dual enrollment credits (regardless of the number of credit hours earned) prior to high school graduation who then graduate from high school and are admitted to an SUS institution in Fall 2018 or later are considered FTIC and are subject to the civics literacy requirement.
- High school students who have been admitted to an SUS institution as a degree-seeking student in Fall 2018 or later and who earn dual enrollment credits prior to graduating from high school are considered Early Admit FTIC and are subject to the civics literacy requirement.
- High school graduates who earn less than twelve (12) credit hours of college coursework after graduating from high school are considered FTIC at SUS institutions and are subject to the civics literacy requirement.

Undergraduate Transfer Student

Undergraduate transfer students are defined as students who have earned twelve (12) or more semester hours of transferable college credit since receiving a standard high school diploma or its equivalent (BOG Regulation 6.004).

For More Information

- Florida Statute 1007.25(4)(a)(b) (http://www.leg.state.fl.us/statutes/).
- BOG Regulation 8.006 (https://www.flbog.edu/board/regulations/).
- Questions regarding Florida College System (FCS) requirements should be directed to FCS staff and local FCS institutions.

Degree and Graduation Policies

Degree Application

Undergraduates must file an application for degree by the deadline with the Office of the University Registrar at ONE.UF (https://one.uf.edu). To file an application, select Certificate/Degree Application under My Record on the left menu.

Students must apply in the term in which they expect to graduate, regardless of applications in previous terms. If the student has completed all the requirements for degree, they will be required to graduate. Degree application deadlines are available under Dates and Deadlines.
More Info (p. 1442)

Associate of Arts Degree

Although not required, students may receive an A.A. degree, which is awarded by the College of Liberal Arts and Sciences. The degree must be awarded prior to or at the same time as the bachelor's degree. The application is available on ONE.UF (https://one.uf.edu).

The Associate of Arts degree will be awarded upon satisfactory completion of:

- 60 credits; at least 36 of these credits must have been completed at UF
- General education requirements; 36 credits in communication, mathematics, social sciences, humanities, and natural sciences.
- Foreign language competence as described in Rule 6A-10.02412, F.A.C.
  The rule can be obtained from:

  Office of Articulation
  Florida Department of Education
  325 West Gaines Street
  Tallahassee, Florida 32399
- An overall UF GPA of 2.0 (C)
- Writing requirement courses

Catalog Year

UF operates on a semester system. There are two semesters averaging 15 weeks of instruction, plus a week of final examinations and two six-week summer terms. Semesters begin in August, January and May. The summer term is offered as a whole as Term C, or in two sessions as half terms, with Term A beginning in May and Term B beginning in June.

Catalog year determines the set of academic requirements that must be fulfilled for completion of a certificate or to graduate from a degree-granting program. Students complete a program under the catalog in effect at the time of their initial enrollment as a certificate or degree-seeking student at UF, a Florida public college or other Florida state institution, provided they maintain continuous enrollment (enrolling for at least one course in one term in an academic year). Students pursuing minors, dual degrees or double majors must have the same catalog year for each program. Students pursuing certificates may have separate catalog years for their certificate(s) and degree-seeking programs(s).

Students who do not maintain continuous enrollment will be assigned the catalog in effect at the time they resume enrollment. With the approval of the student's college dean's office they may choose to graduate under the requirements of a later catalog, but the student must fulfill all graduation requirements from that alternative catalog year.

The university will make every reasonable effort to honor the curriculum requirements appropriate to each student's catalog year. However, courses and programs will sometimes be discontinued and requirements may change as a result of curricular review or actions by accrediting associations and other agencies.

College Dean's Certification

Students who have completed all requirements for their degree will be required to graduate. The dean certifies that all requirements have been completed and that the student has been recommended by the faculty for graduation.

Completion Deadline to Receive a Degree

All work must be completed by the end of the final exam period for the fall and spring terms and by the last day of classes for the summer terms. A minimum UF cumulative grade point average of 2.0 must be earned for award of an undergraduate degree.

Continuous Enrollment

Undergraduate students who enroll for at least one course in one term in an academic year are continuously enrolled.

Curriculum Requirements

Students must complete all degree requirements established by the university, their college, their major and minor (if applicable); this includes completion of general education, writing requirement and the summer term enrollment requirements.

Minors are awarded only in conjunction with the receipt of a baccalaureate degree. To determine program requirements, refer to the academic advising (p. 1379) and majors (p. 1378) sections.

Degree Certification and Graduation Date

All colleges, excluding professional programs in the colleges of Dentistry, Law, Medicine and Veterinary Medicine, will certify their graduates the Tuesday following the last day of classes for the summer terms or the Tuesday following the end of the final exam period for the fall and spring terms. This certification date will appear on the transcript and the diploma as the official date of graduation. Professional programs in the aforementioned colleges will use the date of their official commencement ceremony as the date of graduation. This date will appear on both the transcript and diploma as the official date of graduation, as required by professional accreditation guidelines.

Diploma Replacement

Each diploma ordered subsequent to the student's initial degree application can result in a diploma replacement charge.

Dual Degrees and Multiple Majors

At the discretion of UF colleges and schools students can be permitted to pursue multiple degrees or majors.

- A student completing major and college requirements in two or more different colleges at the same time will receive two or more degrees. The transcript will list each degree and the appropriate majors.

- A student completing major and college requirements in one college and major requirements only in another college will receive a degree from the first college. The transcript will list the degree and each major.
- A student completing multiple majors that have the same degree, i.e., Bachelor of Arts or Bachelor of Science, will receive a single degree. The transcript will list the degree and each major.

Foreign Language Requirement

As a condition of admission to the university, students must complete two sequential courses of a foreign language in secondary school, 8-10 semester credits at the postsecondary level or document an equivalent level of proficiency.

Some degrees also have additional, specific foreign language requirements. To earn a UF degree, students must meet the requirements of their major and college **in addition** to the university's foreign language requirement for admission.

Pending Charge of Academic Dishonesty or Conduct Violation

No degree will be conferred if a charge of academic dishonesty or student conduct violation is pending and the penalty could be dismissal, expulsion, failing grade or any combination of the above, until the charge is resolved and degree requirements are met.

Residence Requirements

The minimum residence requirement for the baccalaureate degree is two semesters.

- Students are required to complete the last 25% of the credits needed to satisfy the requirements of their major by taking UF courses.

Summer Term Enrollment

Students who enter a state university in Florida with fewer than 60 credits must earn at least nine credits before graduation during summer terms at State University System (SUS) institutions (http://www.flbog.edu/universities). However, students who earn six credits through UF-sponsored, UF exchange or approved SUS study-abroad programs during one or two summer terms completely satisfy the summer-term enrollment requirement. In addition, credits earned through any of the study-abroad programs approved by UF during a summer term count toward satisfaction of the summer-term enrollment requirement. Students who bring 60 or more transfer credits to UF, regardless of institution, will be exempt from completing the summer requirement at UF.

Dropping Courses and Withdrawals

Dropping Courses

Dropping is defined as dropping an individual course or courses but not all courses in a term. Failure to attend a class does not constitute a drop.

During Drop/Add

- Courses can be dropped or added during drop/add without penalty.
- Classes that meet for the first time after drop/add closes can be dropped without penalty or fee liability if the request is submitted by the end of the next business day after the first class meeting. Students first must drop the course with their college advising office and then submit a written explanation to the Office of the University Registrar. This does not apply to laboratory sections.

After Drop/Add but Prior to the Drop Deadline

After drop/add, students may drop a course with the approval of their college until the drop deadline listed in the academic calendar. A grade of W will appear on the transcript, and students are liable for course fees.

All drops after drop/add must be completed by the drop deadline with the student's college advising office and are subject to the following restrictions:

- Students get two drops in their first 60 credits attempted at UF. Credits attempted are defined as:
- Credits carried excluding credits taken prior to the first term of degree-seeking enrollment, plus S/U credits, and repeats of satisfactory grades.
- *Full-term withdrawals from all courses and dropped courses do not count in credits carried.*
- Students get two additional drops in the second 60 credits attempted. Unused drops do not carry over from the first 60 credits attempted to the second 60 credits attempted.
- Students entering UF as transfer students with an A.A. degree from a Florida public college or with 60 or more transfer credits earned from another college or university only get two drops.
- Students with disabilities who need to drop a course due to disability-related reasons are allowed to petition for additional drops. More information is available from the Disability Resource Center. More Info (http://www.dso.ufl.edu/drc)
- Students who can document extenuating circumstances may petition their college for additional drops.
- Approval to drop a course must be obtained from the student's college.

After the Drop Deadline

- After the deadline and before the last day of classes, students may petition their college. Typically, they will need to demonstrate an extenuating circumstance justifying approval of a drop after the deadline.
- After the last day of classes, students would need to complete a University Petition Request for a Retroactive Drop. More Info (http://www.registrar.ufl.edu/currents/petitioninstructs.html)

Withdrawals

Withdrawal is defined as dropping *all* courses, not *individual* courses, in a term. Students who leave UF without withdrawing formally will receive failing grades for all courses.

Students should read the withdrawal instructions carefully before submitting their withdrawal online.
More Info (http://registrar.ufl.edu/services/withdrawals.html)

During Drop/Add

- Students may withdraw from all courses during drop/add without penalty.

After Drop/Add but Prior to the Withdrawal Deadline

- Students who withdraw after drop/add and before the withdrawal deadline will receive a grade of W for all courses.
- Students on university academic probation who withdraw before the Withdrawal Deadline will continue on probation until their UF cumulative GPA becomes a 2.0 or greater. Students on Admissions Committee probation must meet the terms of their probation. Students on college probation should check with their college/departmental advisor about college-specific requirements.
- Students considering petitioning for a medical withdrawal (https://dso.ufl.edu/2017/07/11/involuntary-medical-withdrawal-policy) or retroactive medical withdrawal (https://care.dso.ufl.edu/submit-medical-petition/retroactive-medical-withdrawal) should contact the Dean of Students Office for additional information about the process.

After the Withdrawal Deadline

- Students who wish to withdraw after the withdrawal deadline and before the last day of classes may petition their college. Typically, the student will need to demonstrate an extenuating circumstance justifying approval of a withdrawal after the deadline.
- After the last day of classes, students would need to complete a University Petition Request for a Retroactive Withdrawal. More Info (http://www.registrar.ufl.edu/currents/petitioninstructs.html)

Withdrawal Due to Military Service

Per Florida Statute 1004.07, any student enrolled in a postsecondary course or courses at a state university shall not incur academic or financial penalties by virtue of performing military service on behalf of our country. These students shall be permitted the option of completing the course(s) at a later date without penalty or withdrawing from the course(s) with a full refund of fees paid. (Refer to refund of fees (p. 1431) information in the fees and fiscal section.) If the student chooses to withdraw, the record shall reflect that the withdrawal is due to active military service.

National Guard Troops Ordered into Active Service

Per Florida Statute 250.482, if a member of the Florida National Guard is ordered into active service, no private or public employer and no employing or appointing authority of this state, its counties, municipalities, political subdivisions, public colleges or universities shall discharge, reprimand or in any other way penalize such member because of his or her absence by reason of state active duty.

Examination Policies and Reading Days

Final Exams

Final exams are determined by course meeting times, except for certain large courses.

- No student is required to take more than three final exams in one day.
- If two exams are scheduled at the same time, assembly exams take priority over time-of-class exams.
- When two assembly exams or two time-of-class exams conflict, the course with the higher number will take priority. Instructors giving make-up exams will make the necessary adjustments.
- Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence. A reasonable amount of time to make up a final exam is within 60 days of the originally scheduled final exam date; however, students in their graduation semester may require expedited accommodations to ensure graduation as scheduled.

During Term Exams

- During-term examinations are held during regular class times or during assembly exam periods, which are Monday-Friday from 8:20 - 10:10 p.m. (periods E2-E3) for the fall and spring terms and Monday-Friday from 7:00 - 9:45 p.m. (periods E1-E2) for the summer terms.
- If other classes are scheduled during an exam time, instructors must provide make-up class work for students who miss class because of an assembly exam.
- When two exams conflict, assembly exams (multiple sections and/or enrollment over 300) take precedence over non-assembly exams (single sections and/or enrollment under 300). If two assembly exams conflict, the course with the higher number will take priority. Likewise, if two non-assembly exams conflict, the higher number will again take priority. Instructors giving make-up exams will make the necessary adjustments.
- Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence. A reasonable amount of time to make up a during-term exam is before the end of the semester in which the student is enrolled in the class.

Reading Days

The two days before the start of examinations in the fall and spring semesters, generally a Thursday and Friday, are designated reading days. No classes or exams are held on these days; instead, students are encouraged to use these days for study and review.

There are no reading days in the summer terms because examinations are given during regular class periods.

Excused Absences

Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence. For assignments and during-term exams, a reasonable amount of time is within the term in which the student is enrolled in the class. For final exams, a reasonable amount of time is within 60 days after the originally scheduled final exam date; however, students in their graduation semester may require expedited accommodations to ensure graduation as scheduled.

Fees and Fiscal Information

Admission Application Fee

An individual who applies for admission to the University of Florida shall pay a non-refundable application fee of $35.00. There is a $30.00 nonrefundable application fee plus $5.00 processing fee or a fee waiver (UF 3.0376, Regulations of the University of Florida).

Admission Tuition Deposit

Pursuant to UF-3.0376 Regulations of the University of Florida, the $200 admission deposit paid by the individual shall be applied toward payment of that individual's tuition upon enrollment. The admission deposit shall **not** be reimbursed to an individual who does not enroll in the term offered for admission and who does not withdraw their acceptance of admission prior to the applicable deadline as published in the University Record. The deposit is waived for those individuals who have provided documentation that they have received an application fee waiver because of economic need as determined by the College Board, American College Testing Program, Law School Admissions Council, the American Association of Medical Colleges Fee Assistance Program or the American Association of Dental Schools Application Service.

Registration and Tuition and Fees Liability

Pursuant to Section UF-3.037 Regulations of the University of Florida, registration shall be defined as consisting of two components:

1. formal enrollment in one or more credit courses approved and scheduled by the university; and
2. tuition and fee payments, or other appropriate arrangements for tuition and fee payment (deferment or third-party billing) for the courses in which the student is enrolled as of the end of the drop/add period.

Registration must be completed on or before the date specified in the university calendar. Students are not authorized to attend class unless they are on the class roll or have been approved to audit. Unauthorized class attendance will result in fee liability.

Fee Liability

Pursuant to UF-3.037 Regulations of the University of Florida, a student is liable for all tuition and fees associated with all courses for which the student is registered at the end of the drop/add period. The fee payment deadline is 3:30 p.m. of the last day of the second week of classes.

Assessment of Tuition and Fees

Pursuant to UF-3.0375 Regulations of the University of Florida, tuition shall be assessed to students for enrollment in credit courses.

Students can calculate and pay their own tuition and fees on the secure ONE.UF portal.
More Info (https://one.uf.edu/dashboard)

Students can estimate their tuition and fees on the University Bursar website.
More Info (http://www.fa.ufl.edu/bursar/current-students)

Lack of written notification of the tuition and fee debt does not negate the student's responsibility to pay by the published deadline.

For purposes of discussion, the word *term* refers to the fall semester, the spring semester and any of the summer semesters.

Assessment of Student Fees

Activity and Service Fee

All students must pay an activity and service fee that is assessed on a per credit-hour or semiannual basis. (UF-3.0372, Regulations of the University of Florida)

Athletic Fee

All students must pay an athletic fee that is assessed on a per credit-hour or semiannual basis. Half-time graduate research and teaching assistants enrolled for eight (8) or more credit hours during the Fall or Spring Semester and all other students enrolled for nine (9) or more credit hours (except students enrolled in a New World School of the Arts degree program and other students not required to pay the athletic fee) are eligible to purchase football tickets at the student rate. (UF-3.0372, Regulations of the University of Florida)

Audit Fee

Tuition and fees for audited courses are assessed at the applicable resident or non-resident per credit-hour cost as set forth in Regulation UF-3.0375. (UF-3.0376, Regulations of the University of Florida)

Diploma Replacement Fee

Each diploma ordered after a student's initial degree application can result in a diploma replacement charge, variable, not to exceed $10.00 per item. (UF-3.0376, Regulations of the University of Florida)

Distance Learning Fee

Online courses may be assessed a per credit hour amount. (1009.24, Florida Statutes)

Health Fee

All students must pay a health fee that is assessed on a per credit-hour or semiannual basis. The health fee is not part of any health insurance a student may purchase. (UF-3.0372, Regulations of the University of Florida.)

Material and Supply and Equipment Use Fee

Material and supply fees are assessed for certain courses to offset the cost of materials or supply items consumed in the course of instruction. A list of approved courses and fees is published in the Schedule of Courses each semester. (UF-3.0374 Regulations of the University of Florida)
More Info (http://www.registrar.ufl.edu/soc)

The equipment use fee program allows units to charge for courses that use equipment in the educational process, which is used to prepare students for their careers or professions and is used for instructional purposes only with direct use by students. Material and supply and equipment use fee information is available from the academic departments or from the schedule of courses (Florida Statutes 1009.24).

Off-Campus Educational Activities

The president or the president's designee will establish fees for off-campus course offerings when the location results in specific identifiable increased costs to the university. These fees will be in addition to the regular tuition and fees charged to students enrolling in these courses on campus. The additional fees charged are for the purpose of recovering the increased costs resulting from off campus vis-a-vis on campus offerings. As used herein, *off campus* refers to locations other than main campus, branch campuses and centers. (UF-3.0376, Regulations of the University of Florida)

Registration for Zero Credits

The student is assessed the applicable resident or non-resident per credit-hour cost as set forth in Regulation UF-3.0375, for one credit hour. (UF-3.0376, Regulations of the University of Florida)

Technology Fee

All students must pay a technology fee that is assessed on a per credit-hour or semiannual basis. (UF-3.3075, Regulations of the University of Florida)

Transcript Fee

An official transcript may be purchased on the Registrar website or your ONE.UF (https://one.uf.edu) account for a charge. (UF-3.0376. Regulations of the University of Florida)
More Info (https://registrar.ufl.edu/services/transcripts)

Transportation Access Fee

All students must pay a transportation access fee that is assessed on a per credit-hour or semiannual basis. (UF-3.0372, Regulations of the University of Florida)

All charges may be subject to change without notice.

Repeat Course Fee

Beginning Fall 1997, any undergraduate course numbered 1000-4999 at the university for which a student registers three or more times will be subject to a repeat course fee at 100 percent of the full cost of instruction, calculated annually. (Section 1009.285, Florida Statutes)

All students, regardless of classification or residency status, will be assessed the fee in addition to the tuition costs. (UF-3.0375, Regulations of the University of Florida)

Excess Hours Fee

All credit hours for courses taken at the state university from which the student is seeking a baccalaureate degree.

Pursuant to Section 1009.286, Florida Statutes, an additional student payment for credit hours exceeding baccalaureate degree program completion requirements at state universities.
More Info (http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&URL=1000-1099/1009/Sections/1009.286.html)

Payment of Tuition and Fees

Tuition and fees are payable on the dates listed in the academic calendar. Deadlines are enforced.
More info (p. 1442)

Tuition and fee payments are processed by **University Bursar**. Payments sent via U.S. mail must be received in the university cashier's office by the established fee payment deadline. An on time payment for the tuition and fees deadline date is a receipt date, not a postmark date.
More Info (http://www.fa.ufl.edu/bursar/current-students/payments)

According to university policy, university cashiers will accept checks only for the amount due in payment of tuition and fees, accounts receivable, loans and other student debts. Checks from international countries must be payable through a United States bank in U.S. dollars. The university can refuse two-party checks, altered checks and checks that will not photocopy. The university does not have the authority to waive late payment fees unless extraordinary circumstances warrant such a waiver or the university is primarily responsible for the delinquency. (UF 3.0022, University of Florida Regulations)

Pay for tuition and fees and other charges at ONE.UF.
More Info (https://one.uf.edu/dashboard)

Payment Options

- Electronic check; there is no service charge for the electronic check payments.
- Credit cards: MasterCard, Discover, American Express, or Visa will include a 2.6 percent service charge for tuition and fees and accounts receivable charges (e.g., laser print, library fines, parking decals, etc.).
- International Payment is a wire transfer; provides a competitive rate of exchange for many international currencies.
- In person payments: check, money order, or cashier's check. International paper checks or demand drafts must be drawn on a U.S. bank in U.S. dollars and amounts cannot be greater than the amount due. Any payment that is more than the amount due will not be refunded and will automatically be applied to a future debt.
- Cash and debit cards are not available payment options.

Returned Payments

Returned electronic checks or paper checks will be charged a service fee of $25.00 if the returned payment is less than $50.00; $30.00 if the returned payment is $50.01 - $299.99 and $40.00 if the returned payment is $300.00 or more. Payments for returned electronic check payments, returned paper checks and the returned service fee must be paid by money order or cashier's check.

A $10.00 service fee will be charged if the bank information provided for the electronic check payment is inaccurate for electronic funds transfer. Payment for this type of return does not require a money order or a cashier's check.

All financial obligations to the university will be applied on the basis of age of the debt. The oldest debt will be paid first.

Late Registration and Late Payment Fees

Late Registration Fee

Any student who fails to register prior to the late registration date published in the academic calendar will be subject to the late registration fee of $100.00. (UF-3.037, Regulations of the University of Florida)
More Info (p. 1442)

Late Payment Fee

Any student who fails to pay all tuition and fees due or to make appropriate arrangements for tuition and fee payment (deferment or third party billing) by the fee payment deadline published in the academic calendar will be subject to a late payment fee of $100.00. (UF-3.037, Regulations of the University of Florida)
More Info (p. 1442)

Waiver of Late Fees

A student who believes that a late fee should not be assessed because of university error or extraordinary circumstances that prevented all conceivable means of compliance by the deadline may petition for a waiver. Late registration fee: Office of the University Registrar; Late payment fee: University Bursar. The university reserves the right to require documentation to substantiate these circumstances.

Deferment of Tuition and Fees

Deferment extends the deadline for payment of tuition and fees for a specific term. A tuition and fee deferment is granted based on information from Student Financial Affairs (financial aid deferments)

or the Office of the University Registrar (veterans). Refer questions on eligibility to the appropriate office. A tuition and fee deferment must be established by the tuition fee payment deadline for each term. A tuition and fee deferment is provided to students in the following circumstances:

- Students receiving benefits from state or federal financial assistance programs (1009.27, Florida Statutes).
- Students receiving veterans or other educational benefits under Chapter 30, Chapter 31, Chapter 32, Chapter 33, Chapter 34, Chapter 35, Chapter 106 or Title 10, U.S.C.; or
- Students for whom formal arrangements have been made with the university for payment by an acceptable third-party sponsor.

A $100.00 late payment fee will be assessed if a student fails to pay all tuition and fees due by the deferment deadline.

Waiver or Exemption of Tuition and Fees

UF may waive tuition and fees as follows:

- Any dependent child of a special risk member killed in the line of duty, pursuant to Chapter 112.19, Florida Statutes.
- A student enrolled through the Florida Linkage Institutes Program is entitled to a waiver of the non-resident tuition and fees pursuant to 288.8175 Florida Statutes.
- Intern supervisors for institutions within the State University System may be given one non-transferable certificate (fee waiver) for each full academic term during which the person serves as an intern supervisor, pursuant to 1009.26, Florida Statutes.
- Persons 60 years of age or older who are Florida residents, pursuant to Chapter 1009.26, Florida Statutes.
- A student who is or was at the time they reached 18 years of age in the custody of the Department of Children and Families or who, after spending at least 6 months in the custody of the department after reaching 16 years of age, was placed in a guardianship by the court. Or a student who is or was at the time they reached 18 years of age in the custody of a relative or nonrelative under s. 39.5085 or who was adopted from the Department of Children and Families after May 5, 1997, pursuant to Chapter 1009.25, Florida Statutes.
- Florida resident who lacks a fixed, regular, and adequate nighttime residence, whose primary nighttime residence is a public or private shelter designed to provide temporary residence a public or private transitional living program, or a public or private place not designed for, or ordinarily used as, a regular sleeping accommodation for human beings., pursuant to Chapter 1009.25, Florida Statutes.
- Purple Heart recipients pursuant to Chapter 1009.26, Florida Statutes.
- Apply for enrollment in an institution of higher education within 24 months after high school graduation; and submit an official Florida high school transcript as evidence of attendance and graduation, may have the non-Florida resident fee waived as provided by Chapter 1009.26, Florida Statutes.
- Non-Florida resident fee for a veteran; C.W. “Bill” Young Veteran Tuition Waiver, pursuant to Chapter 1009.26, Florida Statutes.

The non-Florida student financial aid fee may not be waived for students receiving an out-of-state tuition and fee waiver.

Non-Payment of Tuition and Fees

The university shall temporarily suspend further academic progress of any student who has not paid the entire balance of their tuition and fee liability by the established deadlines. This will be accomplished by placing a financial hold on the student’s record, which will prevent the student from receiving grades, transcripts and/or diploma, and the student’s registration will be denied for future terms until the account has been satisfied. (UF-3.037 Regulations of the University of Florida)

Students who have not paid any portion of their tuition and fee liability by the established university payment deadline will be withdrawn from all courses. Students will continue to be held fee liable for these courses, but will not be allowed to attend these courses until payment is made in full and the student has been re-registered.

To re-register for courses, students must submit a Current Term Re-Enrollment Request petition to the Office of the University Registrar. Students who re-register after being withdrawn for non-payment of tuition and fees will be subject to both late registration and late payment fees.

Refund of Tuition and Fees

The following circumstances may constitute a tuition and fees refund:

- If notice of withdrawal from the University is approved prior to the end of the drop/add period and written documentation is received from the student
- Credits dropped during drop/add period
- Courses cancelled by the university
- Involuntary call to active military duty
- Death of the student or member of the immediate family (parent, spouse, child, sibling)
- Illness of the student of such severity or duration, as confirmed in writing by a physician, that completion of the semester is precluded
- Exceptional circumstances, upon approval of the university president or his designee

A refund of 25 percent of the total fees paid (less late fees) is available for withdrawal of enrollment of all courses from the university prior to the deadlines listed in the academic calendar.
More Info (p. 1442)

Refunds are issued by University Bursar and will be applied against any university debts. The university reserves the right to set minimum amounts for which refunds will be produced for overpayments on student accounts.

Tuition refunds due to cancellation, withdrawal or termination of attendance for students receiving financial aid will first be refunded to the appropriate financial aid programs. If the student is a recipient of federal financial aid, such as Grad Plus Loan, Pell Grant, TEACH Grant, Supplemental Educational Opportunity Grant (SEOG), Perkins Loan, Federal Direct Stafford Loans or PLUS loans, federal rules require that any unearned portion of the federal aid must be returned to the U.S. Department of Education.

Direct Deposit Requirement

Due to the university’s continuing support for sustainable practices, as well as the costs associated with producing, mailing, and tracking undelivered checks, direct deposit is now required for the delivery of refunds, whether financial aid or student overpayments. This electronic method will deposit any overpayments to the student’s checking account. Students must give authorization on ONE.UF (https://one.uf.edu/dashboard), select the Campus Finances (Bursar) card > Related Links > Sign up for Direct Deposit to have financial aid or overpayments

electronically credited to a U.S. bank or other U.S. financial institution checking account.

Deadlines

Deadlines are enforced.

The university does not have the authority to waive late payment fees unless extraordinary circumstances warrant such waiver or the university is primarily responsible for the delinquency.

Florida Prepaid Tuition College Program

The Florida Prepaid College Program is a state of Florida administered program that provides Florida families affordable means to save for their children's future college education.

At the University of Florida, students with a Florida Prepaid account will **not** have to show their Florida Prepaid documentation. University Bursar works directly from an electronic file provided by the Florida Prepaid College Program. University Bursar matches that file to the names and social security numbers of enrolled UF students to determine eligibility and available credits that can be billed to the program. If Prepaid is not showing on the student's ONE.UF record the first week of classes, contact the University Bursar at 352.392.9545.
More Info (https://one.uf.edu/dashboard)

University Bursar will automatically bill the Florida Prepaid Program for the tuition and applicable fees of eligible students. The program will be billed each term that a student is registered at UF and continues to have credits available.

Florida Prepaid Program has a variety of plans. However, no plan pays 100 percent of tuition and fees. Listed below are fees that are not covered by a prepaid plan and must be paid by the fee payment deadline each term to avoid assessment of a $100.00 late payment fee:

- Distance learning fees
- Equipment fees
- Excess credit hour surcharge fees
- Late payment fees
- Late registration fees
- Material and supply fees
- Repeat course surcharge
- Transportation access fees
- Test fees
- Technology fees

Opting out of Florida Prepaid

Eligible students can choose to decline the use of the prepaid plan online for a **fall**, **spring**, or **summer** term.

Opt out of Florida Prepaid at ONE.UF.
More Info (https://one.uf.edu/dashboard)

The option to *opt out* online for the current term must be completed prior to 3:30 p.m. on the fee payment deadline for that term. The online *opt out* option is not available on the fee payment deadline day; therefore, students choosing to *opt out* on the deadline day or those who need to cancel an online selection must contact the University Bursar at 352.392.9545 or Ask Bursar Help (https://uf.tfaforms.net/125).

*Students must **opt out** each term they decline to use their prepaid plan. Only one academic term will be available online to **opt out** any given time.*

Florida Prepaid and Financial Aid

Students participating in the Florida Prepaid College Program who are also expecting to receive financial aid (i.e., Bright Futures, Pell, student loans, other scholarships/grants) will have the Florida Prepaid applied first to tuition and applicable fees. Financial aid received will be disbursed and applied to outstanding charges, which may include tuition and fees not covered by the program. Any excess financial aid that remains after debts have been paid will be refunded to the student or if there is a Plus loan this will be refunded to the student or parent.

Study Abroad Programs and Distance Learning

Students participating in any study abroad program or receiving instruction through flexible learning, also can bill the Florida Prepaid College Program.

Students must contact the following departments for assistance with billing the prepaid program:

Study Abroad Programs

UF International Center, Study Abroad Services
170 HUB Stadium Road
Gainesville, FL 32611

352.273.1539

Flexible Learning Courses

Distance Learning
2124 NE Waldo Road, Suite 1101
Gainesville, FL 32609

352.392.2137

Additional questions regarding the UF Florida Prepaid billing process?
Call University Bursar at 352.392.9545 or Ask Bursar Help (https://uf.tfaforms.net/125)

Questions about the Florida Prepaid Program?
Call 1.800.552.4723 (552.GRAD)

General Fiscal Information

Students can pay on their ONE.UF account the exact amount of tuition and fees and/or other amounts owed the university. The online payment system accepts the following payment methods: American Express, MasterCard, Discover, or Visa credit cards and electronic checks from checking and international payments via wire transfer.
More Info (https://one.uf.edu/dashboard)

Students can also pay at the University Bursar office with personal checks, cashier's checks and money orders, which can be placed in the 24-hour drop box located outside 113 Criser Hall. Payments on all financial obligations to the university will be applied on the basis of age of the debt. The oldest debt will be paid first.

University Bursar does not accept cash or debit card payments and does not cash checks or make cash refunds.

It is the student's responsibility to maintain a correct current address in the UF directory.
More Info (http://www.registrar.ufl.edu/directoryinfo.html)

Address changes should be made online at ONE.UF.

More Info (https://one.uf.edu/dashboard)

Past-Due Student Accounts

All student accounts are payable at the University Bursar office or on ONE.UF at the time such charges are incurred. Graduating students with outstanding financial obligations will have a hold placed on their records withholding release of a diploma, transcript and other university services until the debt is satisfied.
More Info (https://one.uf.edu/dashboard)

University regulations prohibit the following for any student whose account with the university is delinquent until the debt has been satisfied:

- Registration
- Release of transcript, diploma, grades or schedules
- Loans
- The use of UF facilities and/or services
- Admission to UF functions and athletic events

Delinquent accounts, including those debts for which the student's records have a financial hold, may require payment by cashier's check or money order.

Delinquent debts may be placed with a billing agent, reported to a credit bureau and referred to collection agencies without further notice or litigated, at which time additional collection costs will be assessed in accordance with UF-3.0376, Regulations of the University of Florida. All payments received are applied to the oldest debt first.

FERPA and Confidentiality of Student Records

The university ensures the confidentiality of student records in accordance with the provisions of various federal, state, and university regulations, including the Family Educational Rights and Privacy Act of 1974 (FERPA), as amended, also known as the Buckley Amendment. The statutes and regulations also provide certain rights to students concerning their education records.

FERPA Student Rights

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. **The right to inspect and review the student's education records within 45 days of the day the University receives a request for access.** A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. **The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.** A student who wishes to ask the University to amend a record should write the University official responsible for the record the student wants changed, and specify why it should be changed. If the University decides not to amend the record as requested, the University will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. **The right to provide written consent before the University discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.** FERPA authorizes disclosure without consent in several situations, including but not limited to the following: A) The University may disclose education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisor, academic or research, or support staff position; a person or entity with whom the University has contracted as its agent to provide a service instead of using University employees or officials; a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing their tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill their professional responsibilities for the University. B) Upon request, the University may disclose education records without consent to an official of another school in which a student seeks or intends to enroll or is already enrolled so long as the disclosure is for purposes related to the student's enrollment or transfer. C) Directory information (https://directory.ufl.edu) may be released freely unless the student files the appropriate form requesting that certain public information not be released. This form is available in the Office of the University Registrar.
4. **The right to file a complaint with the U. S. Department of Education concerning alleged failures by the University of Florida to comply with the requirements of FERPA.**

The name and address of the office that administers FERPA is:

Family Compliance Office
US Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

Release of student record information is generally not permitted at the University of Florida without the express, written consent of the student. There are, however, some important exceptions.

Directory Information is defined as the student's name, class and college, local and permanent addresses, listed telephone number, email address, enrollment status, most recent previous educational institution attended, dates of attendance at the University of Florida, majors, minors, certificates,

concentrations and degrees earned, nature and place of employment at the University, honors and awards received, publication titles, participation in officially recognized or registered activities and sports, and weight and height of members of athletic teams.

Under FERPA, the university may release directory information without a student's prior consent, unless the student tells the university not to release this information, by placing what is known as a privacy hold. In order to place a privacy hold, the student must complete a Request for Restriction of Directory Information (Full Privacy Hold). This form is available by contacting the Office of the University Registrar by email (help@registrar.ufl.edu), phone (352.392.1374), or by visiting the Registrar's Information Counter in 222 Criser Hall.

Two important details regarding placing a privacy hold on a student's record:

- The university receives many inquiries for directory information from a variety of sources outside the institution, including friends, parents, relatives, prospective employers, the news media and honor societies. A privacy hold will preclude the release of such information, even to those people.
- A privacy hold applies to all elements of directory information in a student's student record. The Office of the University Registrar does not apply the privacy hold differentially to the various directory information data elements. A request for a privacy hold will result in all data elements being withheld. Changes made by the online student directory will not be reflected on the student's academic record.

A copy of FERPA, more details (http://www.registrar.ufl.edu/ferpa.html) about student rights and any university policies related to the FERPA are available from the Office of the University Registrar. Please refer any questions concerning FERPA to that office in 222 Criser Hall, 352.392.1374.

Confidentiality of Student Records

Directory Information that can be released to the public is limited to:

- Student name
- Class and college
- Local and permanent addresses
- Listed telephone number
- Email address
- Enrollment status
- Most recent previous educational institution attended
- Dates of attendance at the University of Florida
- Majors
- Minors
- Certificates
- Concentrations
- Degree earned
- Nature and place of employment at the university
- Honors and awards received
- Publication titles
- Participation in officially recognized or registered activities and sports
- Weight and height of university athletes

The Office of the University Registrar routinely releases directory information to the public. Directory information may also be released by other university departments and/or employees. Currently enrolled students who want to restrict directory information must contact the Office of the University Registrar for assistance.
More Info (http://www.registrar.ufl.edu/currents/addresschange.html)

Student **educational records may be released** without the student's consent to school officials who have a legitimate educational interest in accessing the records. *School officials* shall include:

- An employee, agent or officer of the university or State University System of Florida in an administrative, supervisory, academic, research or support staff position;
- Persons serving on university committees, boards and/or councils; and
- Persons employed by or under contract to the university to perform a special task, such as an attorney or an auditor.

Legitimate educational interest shall mean any authorized interest or activity undertaken in the name of the university for which access to an educational record is necessary or appropriate to the operation of the university or to the proper performance of the educational mission of the university.

The university also may disclose information from the student's educational record without their consent to individuals or entities permitted such access under applicable federal and state law.

Students have the right to review their own educational records for information and to determine accuracy. A photo I.D., other equivalent documentation or personal recognition by the custodian of record will be required before access is granted. Parents of dependent students, as defined by the Internal Revenue Service, have these same rights upon presentation of proof of the student's dependent status. Each spring when the catalog is published, students are notified of their FERPA rights.

If a student believes their educational record contains information that is inaccurate, misleading or in violation of their rights, they can ask the institution to amend the record. The UF Student Guide outlines the procedures for challenging the content of a student record, as well as the policies governing access to and maintenance of student records.
More Info (https://sccr.dso.ufl.edu/students/student-conduct-code)

If a student believes the university has not maintained the confidentiality of their educational record as required by law, they may file a complaint by contacting:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue SW
Washington, D.C. 20202-5901

Grades and Grading Policies

Grades

Grades and Grade Points

The Office of the University Registrar records student grades.

The word *credit* refers to one semester hour, generally representing one hour per week of lecture or two or more hours per week of laboratory work.

Passing Grades and Grade Points

Credit Earned Prior to May 11, 2009 - Summer A

Passing Grade	Grade Points
A	4.0
B+	3.5
B	3.0
C+	2.5
C	2.0
D+	1.5
D	1
S	0

Passing Grades and Grade Points

Credit Earned Effective May 11, 2009 - Summer A

Passing Grade	Grade Points
A	4.0
A-	3.67
B+	3.33
B	3.0
B-	2.67
C+	2.33
C	2.0
C-	1.67
D+	1.33
D	1.0
D-	.67
S	0

The degree-granting college may require a specific minimum grade in particular courses.

Failing Grades and Grade Points

Failing Grade, Zero Grade Points, Counted in GPA	Grade Points
E	O
WF	0
I	0
NG	0

Non-Punitive Grades and Grade Points

Non-Punitive Grade, Zero Grade Points, Not Counted in GPA	Grade Points
W	0
H	0
I*	0
N*	0
U	0

Definitions

E

Failure

H

Deferred grade assigned only in approved sequential courses or flexible learning

I* / I

Incomplete

N* / NG

No grade reported

S

Satisfactory

U

Unsatisfactory

W

Withdrew

WF

Withdrew failing

I*, N* and I, NG Grades

I* or N* grades recorded on the student record indicate the non-punitive initial-term receipt of an I or NG. A grade of I* or N* is not considered a failing grade for the term in which it is received, and it is not computed in the grade point average. However, if the I* or N* has not been changed after 150 days, it will be counted as a failing grade and used in computation of a student's grade point average.

For purposes of determining grade point average after the initial receipt of an I* or N* grade, the three summer terms are considered collectively as a single term. I* and N* grades are not assigned to graduating students; they receive failing grades of I or NG.

An incomplete grade may be assigned at the discretion of the instructor as an interim grade for a course in which the student has completed a major portion of the course with a passing grade, been unable to complete course requirements before the end of the term because of extenuating circumstances, and obtained agreement from the instructor and arranged for resolution of the incomplete grade. Instructors are not required to assign incomplete grades.

If make-up work requires classroom or laboratory attendance in a subsequent term, students must not register for the course again. Instead, they should audit the course and pay course fees.

If the make-up work does not require classroom or laboratory attendance, the student and their instructor should decide on an appropriate plan and deadline for completing the course.

When the course is completed, the instructor will initiate the change of grade. **These procedures cannot be used to repeat a course for a different grade**. An I grade should not be assigned to a student who never attended class; instead, instructors should assign a failing grade.

W and WF Grades

Courses dropped after drop/add and before the withdrawal deadline will be graded W. WF grades are no longer issued by the university, but in previous years they reflect courses dropped after the withdrawal deadline.

More Info (p. 1430)

Satisfactory/Unsatisfactory Grade Option (S/U)

Subject to college degree program and department guidelines, students can take elective coursework and earn grades of S (satisfactory) or U (unsatisfactory). **A grade of S is equal to a C (2.0) or better**. Grades earned under the S/U option do not carry grade point values and are not computed in the University of Florida grade point average. Courses with a grade of S will count as credits earned in a degree program. Such grades are included in the student's permanent academic record and are reflected on the transcript. **After the S/U option is approved, the grade cannot revert to a letter grade**.

Other academic institutions and agencies may interpret a grade of U as a failing grade.

If a student chooses the S/U option they must be in good standing and not on university academic probation. To elect the S/U option, students must obtain the approvals indicated on the form. Students can elect the S/U option for one course only each term; this option is in addition to courses that are taught only on an S/U basis. Courses taken to fulfill the general education and the writing requirement cannot be taken S/U.

For fall, spring and summer C terms, the S/U option deadline is Friday of the third week of classes. For summer A and summer B terms, the deadline is Wednesday of the second week of classes.

H Grades

An H grade, which signifies a deferred grade assignment, is normally assigned at the end of a term when a specific course's class calendar differs from the traditional course calendar. Now that UF flexible learning courses have been incorporated into the student records system, H grades will also be assigned to students who cannot complete their flexible learning course requirements before the end of the traditional grade cycle.

While H grades for traditional courses become punitive at a date determined by the college, H grades for flexible learning coursework generally become punitive 32 weeks after course enrollment. However, any grade of H received by a degree candidate will become punitive (and calculated as a failing grade) at degree certification.

Grading Policies

Grade Point Averaging

The term *average* refers to the grade point average (GPA) for work completed in the current or most recent academic program attended at the University of Florida. Grades received at other institutions are NOT averaged with grades received at the University of Florida for the purpose of meeting university GPA requirements. Other agencies and honorary societies will compute averages in accordance with their own standards and policies. Averages are determined by computing the ratio of grade points to semester credits attempted.

Dismissal for Insufficient GPA

Just as a sufficient GPA is critical for academic success, an insufficient GPA could lead to dismissal from the university. Students must maintain a minimum GPA based on their cumulative UF credits to avoid dismissal and cancellation of advanced registrations.

More Info (p. 1425)

Grade Values for Conversion

Grades	Grade Points
A	4.0
A-	3.67
B+	3.33
B	3.0
B-	2.67
C+	2.33
C	2.0
C-	1.67
D+	1.33
D	1.0
D-	.67
E	0
WF	0
I	0
NG	0
S/U	0

To see calculations based upon former grade values, please refer to the 2009-10 undergraduate catalog (http://www.registrar.ufl.edu/catalog0910/policies/regulationgrades.html).

Repeat Coursework

University of Florida coursework that is repeated is counted in the computation of your UF grade point average as many times as grades for that course are recorded, although credits will be awarded only once.

When you earn a C (2.0) or higher in a course, you will not be allowed to repeat that course. Any exceptions to this policy must be made via an approved petition to the student's college.

If you entered UF with credit for Advanced Placement (AP) or International Baccalaureate (IB) courses and you then repeat and pass the equivalent course at UF, you will receive a grade for the UF course and no credit for the prior work.

Grades received at other institutions will not be averaged with grades received at the University of Florida. Repeat coursework taken at the University of Florida will result in calculation of the UF grade in the UF grade point average only, with credit earned only once.

Outcomes when Repeated Coursework involves Transfer Coursework

Coursework taken at another institution, then repeated at UF

Only UF grade computed in GPA; credit earned only once.

Coursework taken at UF, then repeated at another institution

Only UF grade computed in GPA; credit earned only once.

Coursework taken and repeated at another institution

No grades will be calculated into the UF GPA and credit is awarded only once.

Repeat course equivalencies are identified based on the state's common course taxonomy. Refer to the statewide course numbering system (p. 1455) for the definition of course equivalencies.

Colleges may not accept grade points and credits earned from lower level courses if they are taken after the student has received credit/grades for advanced courses or exam credit in the same field.

Grade Changes

Grade changes will be accepted and processed by the Office of the University Registrar for one calendar year after the term in which the course was attempted.

Any grade changes submitted after the deadline must be accompanied by additional supporting information or documentation justifying the extension and submitted to the appropriate college dean. If the dean approves the exception, they will forward an authorized grade change form to the Office of the University Registrar.

One calendar year is specified as the published grades due date of the same semester in the following year.

This policy does not apply to grades of I or I*, which designate a grade of incomplete.

Registration Policies

Course Load Requirements

The minimum full-time load for undergraduate students is 12 credits. The minimum full-time load for a summer term is 12 credits. Postbaccalaureate students are considered undergraduates.

Students with disabilities who are registered with the Disability Resources Center are eligible for full-time status and all the benefits thereof at or below 12 credits.
More Info (http://www.dso.ufl.edu/drc)

The minimum load for full-time undergraduate student benefits from the Veterans Administration is 12 credits for fall, spring, and summer terms. The minimum load for full-time undergraduate student benefits from the Social Security Administration is 12 credits per semester; a full-time load for graduate students is 9 credits. Inquiries related to Social Security benefits should be directed to the student's local Social Security Office.

The Office of the University Registrar will complete enrollment certificates issued by the Social Security Administration for students eligible to receive educational benefits, as long as the student is a full-time undergraduate. Students receiving financial aid and students with disabilities should refer to Financial Aid's enrollment requirements for complete information.
More Info (http://www.sfa.ufl.edu/receiving/enrollment-requirements)

University regulations allow a maximum load of 18 credits. Some colleges have differing maximum loads; refer to the college sections for specific information.

With college approval you may register for less than the minimum or more than the maximum load. After late registration, you cannot drop below the minimum load without successfully petitioning your college dean.

Simultaneous enrollment in flexible learning courses or extension work at another college or university is counted when computing the maximum course load but not the minimum course load.

Non-Degree Registration

Non-degree enrollment is restricted to participants in special programs, off-campus programs, university-affiliated exchange programs, and high school/college dual-credit enrollment. (Special regulations govern high school/college dual enrollment for academically advanced students in Florida high schools.)
More Info (http://www.registrar.ufl.edu/registration/transients.html)

Undergraduate students who have been denied admission to UF for any term are not eligible for non-degree registration. If you previously have attended UF in a degree-seeking status and did not subsequently earn a bachelor's degree, you are not eligible for non-degree registration.

Non-degree enrollment is subject to the availability of faculty, space and facilities. No application for admission is required.

Non-degree enrollment is generally limited to the summer terms.

UF Students Attending Other Schools

Normally, UF students are not permitted to register at another institution for a course or its equivalent that is offered at UF.
More Info (http://www.registrar.ufl.edu/currents/transients.html)

Visiting Students Attending UF

Undergraduate students in good standing at another accredited collegiate institution can enroll full time at UF as non-degree transient students to complete work to transfer back to the parent institution.
More Info (http://www.registrar.ufl.edu/currents/transients2.html)

UF will not evaluate work previously completed, and it is the student's responsibility to secure approvals required by the parent institution. Certification to Social Security and Veterans Administration programs also is the responsibility of the student, who must request each institution to furnish records.

Non-degree students are subject to the following restrictions:

- Non-degree students must meet state of Florida immunization requirements.
- Course enrollment requires the approval of the college at the beginning of each term. The college of enrollment has the authority to terminate a non-degree enrollment before registration for any term. Generally, non-degree registration is for one term only.
- Registration is not permitted until the last three days of the fall/spring drop/add period and must be completed by the end of drop/add; failure to register by that deadline will result in a late registration fee.
- Registration is not permitted until the first day of the summer drop/add period and must be completed by the end of drop/add; failure to register by that deadline will result in a late registration fee.
- The same grading system is applicable to degree and non-degree students. Non-degree credit is not applicable to a UF degree except by subsequent admission to degree status and successful petition for application of such credit. Authorization to enroll as a non-degree student in no way implies future approval for admission as a degree-seeking student.
- Non-degree enrollment status will be denied to any student under suspension or dismissal from a postsecondary institution or not in good standing at any institution previously enrolled, including UF, even if the student has subsequently attended another institution. Non-degree students are subject to other regulations and restrictions imposed by the college or department in which they wish to enroll.
- Non-degree students taking courses at the university will be required to register for and to attend classes under the university calendar. Non-degree students must pay appropriate UF fees based on course level, number of credits and residency status.

Auditing Courses

Auditing a course is approved on a space-available basis. In addition to paying tuition and fees, the student must obtain approvals from both the instructor and dean of the college offering the course. Immunizations also are required.
More Info (http://www.registrar.ufl.edu/currents/specialregistrations.html)

Audited courses are reflected on the academic transcript with a grade value of AUD.

Students auditing a course to complete course requirements should refer to Grades and Grading Policies.
More Info (p. 1438)

Transfer Credit

In general, students may transfer 60 credits from public/state colleges as part of the credits needed for their UF degrees, regardless of when these credits are earned, subject to university and college degree requirements.

Associate of Arts (A.A.) degree recipients from Florida public colleges who continue enrollment at the school that awarded the A.A. may be granted additional transfer credit for one or more courses that satisfy their UF degree requirements.

Junior/senior-level (courses numbered 3000-4000) course requirements for the major must be completed at UF or, with permission of the student's UF college, at another accredited baccalaureate degree-granting institution. Refer to Residence Requirements for additional policy regarding graduation requirements.
More Info (p. 1429)

Courses completed with grades of D or higher at other regionally accredited degree-granting institutions and institutions fully accredited by a regional or national accrediting agency recognized by the United States Department of Education that participate in the statewide course numbering system and that reasonably parallel the curriculum at this university will be accepted for transfer credit as hours earned. It is the prerogative of the student's college to determine how transfer credit satisfies the specific degree's course requirements.

Students are required to submit final official transcripts from all institutions attended before or during their enrollment at UF.

Failure to declare attendance at another institution can invalidate admission to UF and any credits or degrees earned.

Student Classifications

Classification	Explanation
Non-degree	Special transient students, qualified high school students and other non-degree students permitted to register at UF

Freshman	Students with fewer than 30 credits earned
Sophomore	Students who have earned 30 credits and who have fewer than 60 credits
Junior	Students who have earned 60 credits and have fewer than 90 credits
Senior	Students who have earned 90 credits or more
Fifth Year	Students who have earned 120 credits or more and who are candidates for a degree in a program that normally requires 10 semesters
Post-Bacc Undergraduate	Postbaccalaureate students: degree-holding students who have been admitted to postbaccalaureate status
Graduate-7	Graduate students seeking a first master's degree
Graduate-8	Graduate students who have earned a master's degree, or who have earned 36 or more credits while seeking a graduate degree, who have not been admitted to doctoral candidacy
Graduate-9	Graduate students who have been admitted to doctoral candidacy

Transcript Policies

The Office of the University Registrar maintains all students' academic records. At the end of each term of enrollment, students can view their grades, cumulative credits earned, grade points, probationary status and degrees earned, if any, on ONE.UF.
More Info (https://one.uf.edu)

The University of Florida transcript is the comprehensive record of courses taken at UF, credit earned by examination, university-level honors, certifications and certificates, and degrees awarded. The student's name will appear on the transcript as it appears on their university record.

Transcripts can be ordered online on ONE.UF. Payment must accompany each transcript order; transcripts cannot be ordered by telephone, fax or email. Current and former students will need a valid GatorLink account (with an active username and password) to order an official transcript or to view and print an unofficial copy of their UF transcripts on ONE.UF. The unofficial copy of the UF transcript may not be accepted by other institutions or potential employers.
More Info (https://one.uf.edu)

The university maintains the right to withhold release of a transcript if a student has an outstanding financial obligation to the university. To reflect a complete academic record for undergraduate, graduate and professional students, the university will issue complete transcripts only. Transcripts do not differentiate between degrees or courses taken in a classroom or online format.

Dates and Deadlines

All deadlines are effective **at 5:00 p.m.** on the last date unless indicated otherwise. All paperwork should be submitted to the appropriate office, generally the Office of the University Registrar in 222 Criser Hall (http://campusmap.ufl.edu/?loc=0031), **by 5:00 p.m.**, unless indicated otherwise.

All dates and deadlines may be subject to change.

2018-2019 Dates and Deadlines

All deadlines are effective **at 5:00 p.m.** on the last date unless indicated otherwise. All paperwork should be submitted to the appropriate office, generally the Office of the University Registrar in 222 Criser Hall (http://campusmap.ufl.edu/?loc=0031), **by 5:00 p.m.**, unless indicated otherwise.

All dates and deadlines may be subject to change.

Spring '19	
Event	**Dates and Deadlines**
Advance Registration (at or after assigned start time)	**October 29 - January 3**
UF (EEP) and State Employee Registration	**January 7 - 11** (11:59 pm of last day)
Regular Registration ($100 late fee after 11:59 pm deadline)	**January 4** (11:59 pm)
Classes Begin	**January 7**
Drop/Add (at or after assigned start time)	**January 7 - 11** (11:59 pm of last day)
Late Registration	**January 7 - 11** (11:59 pm of last day)
Non-Degree Registration (at or after assigned start time)	**January 9 - 11** (11:59 pm of last day)
Withdrawal from All Spring Courses with No Fee Liability	**January 11** (11:59 pm)
Fee Payments (3:30 pm, University Bursar)	**January 18** (3:30 pm)
Residency Reclassifications	**January 18**
S/U Grade Option	**January 25**
Degree Applications	**February 1**

Withdrawal with 25% Refund (W assigned to all Spring courses)	**February 1**
Drop Deadline (W assigned to individual course(s). Drops of individual courses must be approved by the student's college)	**April 12** (11:59 pm)
Withdrawal Deadline (W assigned to all Spring courses)	**April 12** (11:59 pm)
Faculty Course Evaluation Period Opens (Dates can vary by course. Log on to GatorRater[1] to verify.)	**April 13**
Drop or Add a Course after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to drop or add after the deadline)	**April 24**
Withdraw from All Spring Courses after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to withdraw from all courses after the deadline)	**April 24**
Classes End	**April 24**
Honors Theses due to College Advising Offices	**April 24**
Reading Days (no classes)	**April 25 - 26**
Faculty Course Evaluation Period Closes (Dates can vary by course. Log on to GatorRater[1] to verify.)	**April 26**
Final Exams	**April 27 - May 3**
Commencement (Dates of graduate and professional school commencements can vary. Please refer to the official schedules.[2] Dates/times of all ceremonies will be posted when officially scheduled.)	**May 3 - 5**
Degree Status Available (8:00 a.m. on ONE.UF)[3]	**May 9**
Final Grades Available (transcript view, on ONE.UF)[3]	**May 10**
Faculty Course Evaluations Available to Instructors (on GatorRater)[1]	**May 9**
Holidays (no classes)	**January 21: Martin Luther King, Jr. Day**
	March 2 - 9: Spring Break

1 GatorRater (https://evaluations.ufl.edu/evals/Default.aspx).

2 Official schedules (https://commencement.ufl.edu).

3 ONE.UF (https://one.uf.edu/dashboard).

Summer A/C '19

Summer A/C Event	Summer A Dates and Deadlines	Summer C Dates and Deadlines
Advanced Registration (at or after assigned start time)	**March 25 - May 9**	**March 25 - May 9**
UF (EEP) and State Employee Registration	**May 13 - 14** (11:59 pm of last day)	**May 13 - 14** (11:59 pm of last day)
Regular Registration ($100 late fee after 11:59 pm deadline)	**May 10** (11:59 pm)	**May 10** (11:59 pm)
Classes Begin	**May 13**	**May 13**
Drop/Add (at or after assigned start time)	**May 13 - 14** (11:59 pm of last day)	**May 13 - 14** (11:59 pm of last day)
Late Registration	**May 13 - 14** (11:59 pm of last day)	**May 13 - 14** (11:59 pm of last day)
Non-Degree Registration (at or after assigned start time)	**May 13 - 14** (11:59 pm of last day)	**May 13 - 14** (11:59 pm of last day)
Withdrawal from All Courses with No Fee Liability	**May 14** (11:59 pm)	**May 14** (11:59 pm)
Degree Applications	**May 15**	**July 3**
Fee Payments (3:30 pm, University Bursar)	**May 24** (3:30 pm)	**May 24** (3:30 pm)
Residency Reclassifications	**May 24**	**May 24**
S/U Grade Option	**May 22**	**May 31**
Withdrawal with 25% Refund (W assigned to all courses)	**May 22**	**May 31**
Honors Theses due to College Advising Offices	**June 12**	**July 31**
Drop Deadline (W assigned to individual course(s). Drops of individual courses must be approved by the student's college)	**June 14** (11:59 pm)	**August 2** (11:59 pm)
Withdrawal Deadline (W assigned to all courses)	**June 14** (11:59 pm)	**August 2** (11:59 pm)

Faculty Course Evaluation Period (Dates can vary by course. Log on to GatorRater[1] to verify.)	**June 15 - 21**	**August 3 - 9**
Drop or Add a Course after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to drop or add after the deadline)	**June 21**	**August 9**
Withdraw from All Courses after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to withdraw from all courses after the deadline)	**June 21**	**August 9**
Classes End	**June 21**	**August 9**
Reading Days (no classes)	**None**	**None**
Final Exams	**In Class**	**In Class**
Commencement (Dates of graduate and professional school commencements can vary. Please refer to the official schedules.[2] Dates/times of all ceremonies will be posted when officially scheduled.)	**None**	**August 10**
Degree Status Available (8:00 a.m. on ONE.UF)[3]	**June 26**	**August 14**
Final Grades Available (transcript view, on ONE.UF)[3]	**June 27**	**August 15**
Faculty Course Evaluations Available to Instructors (on GatorRater)[1]	**June 27**	**August 15**
Holidays (no classes)	**May 27: Memorial Day**	**May 27: Memorial Day**
		June 24 - 28: Summer Break
		July 4: Independence Day

1 GatorRater (https://evaluations.ufl.edu/evals/Default.aspx).

2 Official schedules (https://commencement.ufl.edu).

3 ONE.UF (https://one.uf.edu/dashboard).

2019-2020 Dates and Deadlines

All deadlines are effective **at 5:00 p.m.** on the last date unless indicated otherwise. All paperwork should be submitted to the appropriate office, generally the Office of the University Registrar in 222 Criser Hall (http://campusmap.ufl.edu/?loc=0031), **by 5:00 p.m.**, unless indicated otherwise.

All dates and deadlines may be subject to change.

Summer B '19	
Summer B Event	**Dates and Deadlines**
Advance Registration (at or after assigned start time)	**March 25 - June 27**
UF (EEP) and State Employee Registration	**July 1 - 2** (11:59 pm of last day)
Regular Registration ($100 late fee after 11:59 pm deadline)	**June 28** (11:59 pm)
Classes Begin	**July 1**
Drop/Add (at or after assigned start time)	**July 1 - 2** (11:59 pm of last day)
Late Registration	**July 1 - 2** (11:59 pm of last day)
Non-Degree Registration (at or after assigned start time)	**July 1 - 2** (11:59 pm of last day)
Withdrawal from All Summer B Courses with No Fee Liability	**July 2** (11:59 pm)
Degree Applications	**July 3**
S/U Grade Option	**July 10**
Withdrawal with 25% Refund (W assigned to all Summer B courses)	**July 10**
Fee Payments (3:30 pm, University Bursar)	**July 12** (3:30 pm)
Residency Reclassifications	**July 12**
Honors Theses due to College Advising Offices	**July 31**

Drop Deadline (W assigned to individual course(s). Drops of individual courses must be approved by the student's college)	**August 2** (11:59 pm)
Withdrawal Deadline (W assigned to all Summer B courses)	**August 2** (11:59 pm)
Faculty Course Evaluation Period (Dates can vary by course. Log on to GatorRater[1] to verify.)	**August 3 - August 9**
Drop or Add a Course after the Drop/Withdrawal Deadline (Students must petition their college with appropriate documentation for approval to drop or add after the deadline)	**August 9**
Withdraw from All Summer B Courses after the Drop/Withdrawal Deadline (Students must petition their college with appropriate documentation for approval to withdraw from all courses after the deadline)	**August 9**
Classes End	**August 9**
Reading Days (no classes)	**None**
Final Exams	**In Class**
Commencement (Dates of graduate and professional school commencements can vary. Please refer to the official schedules.[2] Dates/times of all ceremonies will be posted when officially scheduled.)	**August 10**
Degree Status Available (8:00 a.m. on ONE.UF)	**August 14**
Final Grades Available (transcript view, ONE.UF)	**August 15**
Faculty Course Evaluations Available to Instructors (on GatorRater)[1]	**August 15**
Holidays (no classes)	**July 4: Independence Day**

1 GatorRater (https://evaluations.ufl.edu/evals/Default.aspx).

2 Official schedules (https://commencement.ufl.edu).

Fall '19

Event	Dates and Deadlines
Advance Registration (at or after assigned start time)	**March 25 - August 16**
UF (EEP) and State Employee Registration	**August 20 - 23, 26** (11:59 pm of last day)
Regular Registration ($100 late fee after 11:59 pm pm deadline)	**August 19** (11:59 pm)
Classes Begin	**August 20**
Drop/Add (at or after assigned start time)	**August 20 - 23, 26** (11:59 pm of last day)
Late Registration	**August 20 - 23, 26** (11:59 pm of last day)
Non-Degree Registration (at or after assigned start time)	**August 22 - 23, 26** (11:59 pm of last day)
Withdrawal from All Fall Courses with No Fee Liability	**August 26** (11:59 pm)
Residency Reclassifications	**August 30**
Fee Payments	**August 30**
S/U Grade Option	**September 6**
Degree Applications	**September 13**
Withdrawal with 25% Refund (W assigned to all Fall courses)	**September 13**
Drop Deadline (W assigned to individual course(s). Drops of individual courses must be approved by the student's college.)	**November 25** (11:59 pm)
Withdrawal Deadline (W assigned to all Fall courses)	**November 25** (11:59 pm)
Faculty Course Evaluation Period Opens (Dates can vary by course. Log on to GatorRater[1] to verify.)	**November 26**
Drop or Add a Course after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to drop or add after the deadline.)	**December 4**
Withdraw from All Fall Courses after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to withdraw from all courses after the deadline)	**December 4**
Classes End	**December 4**
Honors Theses due to College Advising Offices	**December 4**
Reading Days (no classes)	**December 5 - 6**

Faculty Course Evaluation Period Closes (Dates can vary by course. Log on to GatorRater[1] to verify.)	**December 6**
Final Exams	**December 7 - 13**
Commencement (Dates of graduate and professional school commencements can vary. Please refer to the official schedules.[2] Dates/times of all ceremonies will be posted when officially scheduled.)	**December 13 - 15**
Degree Status Available (8:00 a.m. on ONE.UF)[3]	**December 18**
Final Grades Available (transcript view, on ONE.UF)[3]	**December 18**
Faculty Course Evaluations Available to Instructors (on GatorRater)[1]	**December 19**
Holidays (no classes)	**September 2: Labor Day**
	October 4 - 5: Homecoming
	November 11: Veterans Day
	November 27 - 30: Thanksgiving break

1 GatorRater (https://evaluations.ufl.edu/evals/Default.aspx).

2 Official schedules (https://commencement.ufl.edu).

3 ONE.UF (https://one.uf.edu/dashboard).

Spring '20

Event	Dates and Deadlines
Advance Registration (at or after assigned start time)	**October 28 - January 2**
UF (EEP) and State Employee Registration	**January 6 - 10** (11:59 pm of last day)
Regular Registration ($100 late fee after 11:59 pm deadline)	**January 3** (11:59 pm)
Classes Begin	**January 6**
Drop/Add (at or after assigned start time)	**January 6 - 10** (11:59 pm of last day)
Late Registration	**January 6 - 10** (11:59 pm of last day)
Non-Degree Registration (at or after assigned start time)	**January 8 - 10** (11:59 pm of last day)
Withdrawal from All Spring Courses with No Fee Liability	**January 10** (11:59 pm)
Fee Payments (3:30 pm, University Bursar)	**January 17** (3:30 pm)
Residency Reclassifications	**January 17**
S/U Grade Option	**January 24**
Degree Applications	**January 31**
Withdrawal with 25% Refund (W assigned to all Spring courses)	**January 31**
Drop Deadline (W assigned to individual course(s). Drops of individual courses must be approved by the student's college)	**April 10** (11:59 pm)
Withdrawal Deadline (W assigned to all Spring courses)	**April 10** (11:59 pm)
Faculty Course Evaluation Period Opens (Dates can vary by course. Log on to GatorRater[1] to verify.)	**April 11**
Drop or Add a Course after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to drop or add after the deadline)	**April 22**
Withdraw from All Spring Courses after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to withdraw from all courses after the deadline)	**April 22**
Classes End	**April 22**
Honors Theses due to College Advising Offices	**April 22**
Reading Days (no classes)	**April 23 - 24**
Faculty Course Evaluation Period Closes (Dates can vary by course. Log on to GatorRater[1] to verify.)	**April 24**
Final Exams	**April 25 - May 1**
Commencement (Dates of graduate and professional school commencements can vary. Please refer to the official schedules.[2] Dates/times of all ceremonies will be posted when officially scheduled.)	**May 1 - 3**
Degree Status Available (8:00 a.m. on ONE.UF)[3]	**May 6**

Final Grades Available (transcript view, on ONE.UF)[3]	**May 6**
Faculty Course Evaluations Available to Instructors (on GatorRater)[1]	**May 7**
Holidays (no classes)	**January 20: Martin Luther King, Jr. Day**
	February 29 - March 7: Spring Break

1 GatorRater (https://evaluations.ufl.edu/evals/Default.aspx).

2 Official schedules (https://commencement.ufl.edu).

3 ONE.UF (https://one.uf.edu/dashboard).

Summer A/C '20

Summer A/C Event	Summer A Dates and Deadlines	Summer C Dates and Deadlines
Advanced Registration (at or after assigned start time)	**March 23 - May 7**	**March 23 - May 7**
UF (EEP) and State Employee Registration	**May 11 - 12** (11:59 pm of last day)	**May 11 - 12** (11:59 pm of last day)
Regular Registration ($100 late fee after 11:59 pm deadline)	**May 8** (11:59 pm)	**May 8** (11:59 pm)
Classes Begin	**May 11**	**May 11**
Drop/Add (at or after assigned start time)	**May 11 - 12** (11:59 pm of last day)	**May 11 - 12** (11:59 pm of last day)
Late Registration	**May 11 - 12** (11:59 pm of last day)	**May 11 - 12** (11:59 pm of last day)
Non-Degree Registration (at or after assigned start time)	**May 11 -12** (11:59 pm of last day)	**May 11 - 12** (11:59 pm of last day)
Withdrawal from All Courses with No Fee Liability	**May 12** (11:59 pm)	**May 12** (11:59 pm)
Degree Applications	**May 13**	**July 1**
Fee Payments (3:30 pm, University Bursar)	**May 22** (3:30 pm)	**May 22** (3:30 pm)
Residency Reclassifications	**May 22**	**May 22**
S/U Grade Option	**May 20**	**May 29**
Withdrawal with 25% Refund (W assigned to all courses)	**May 20**	**May 29**
Honors Theses due to College Advising Offices	**June 10**	**July 29**
Drop Deadline (W assigned to individual course(s). Drops of individual courses must be approved by the student's college)	**June 12** (11:59 pm)	**July 31** (11:59 pm)
Withdrawal Deadline (W assigned to all courses)	**June 12** (11:59 pm)	**July 31** (11:59 pm)
Faculty Course Evaluation Period (Dates can vary by course. Log on to GatorRater[1] to verify.)	**June 13 - 19**	**August 1 - 7**
Drop or Add a Course after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to drop or add after the deadline)	**June 19**	**August 7**
Withdraw from All Courses after the Drop/ Withdrawal Deadline (students must petition their college with appropriate documentation for approval to withdraw from all courses after the deadline)	**June 19**	**August 7**
Classes End	**June 19**	**August 7**
Reading Days (no classes)	**None**	**None**
Final Exams	**In Class**	**In Class**
Commencement (Dates of graduate and professional school commencements can vary. Please refer to the official schedules.[2] Dates/ times of all ceremonies will be posted when officially scheduled.)	**None**	**August 8**
Degree Status Available (8:00 a.m. on ONE.UF)[3]	**June 24**	**August 12**
Final Grades Available (transcript view, on ONE.UF)[3]	**June 24**	**August 12**

Faculty Course Evaluations Available to Instructors (on GatorRater)[1]	**June 25**	**August 13**
Holidays (no classes)	**May 25: Memorial Day**	**May 25: Memorial Day**
		June 22 - 26: Summer Break
		July 3: Independence Day Observed

1 GatorRater (https://evaluations.ufl.edu/evals/Default.aspx).

2 Official schedules (https://commencement.ufl.edu).

3 ONE.UF (https://one.uf.edu/dashboard).

2020-2021 Dates and Deadlines

All deadlines are effective **at 5:00 p.m.** on the last date unless indicated otherwise. All paperwork should be submitted to the appropriate office, generally the Office of the University Registrar in 222 Criser Hall (http://campusmap.ufl.edu/?loc=0031), **by 5:00 p.m.**, unless indicated otherwise.

All dates and deadlines may be subject to change.

Summer B '20

Summer B Event	Dates and Deadlines
Advance Registration (at or after assigned start time)	**March 23 - June 25**
UF (EEP) and State Employee Registration	**June 29 - 30** (11:59 pm of last day)
Regular Registration ($100 late fee after 11:59 pm deadline)	**June 26** (11:59 pm)
Classes Begin	**June 29**
Drop/Add (at or after assigned start time)	**June 29 - 30** (11:59 pm of last day)
Late Registration	**June 29-30** (11:59 pm of last day)
Non-Degree Registration (at or after assigned start time)	**June 29-30** (11:59 pm of last day)
Withdrawal from All Summer B Courses with No Fee Liability	**June 30** (11:59 pm)
Degree Applications	**July 1**
S/U Grade Option	**July 8**
Withdrawal with 25% Refund (W assigned to all Summer B courses)	**July 8**
Fee Payments (3:30 pm, University Bursar)	**July 10** (3:30 pm)
Residency Reclassifications	**July 10**
Honors Theses due to College Advising Offices	**July 29**
Drop Deadline (W assigned to individual course(s). Drops of individual courses must be approved by the student's college)	**July 31** (11:59 pm)
Withdrawal Deadline (W assigned to all Summer B courses)	**July 31** (11:59 pm)
Faculty Course Evaluation Period (Dates can vary by course. Log on to GatorRater[1] to verify.)	**August 1 - August 7**
Drop or Add a Course after the Drop/Withdrawal Deadline (Students must petition their college with appropriate documentation for approval to drop or add after the deadline)	**August 7**
Withdraw from All Summer B Courses after the Drop/Withdrawal Deadline (Students must petition their college with appropriate documentation for approval to withdraw from all courses after the deadline)	**August 7**
Classes End	**August 7**
Reading Days (no classes)	**None**
Final Exams	**In Class**
Commencement (Dates of graduate and professional school commencements can vary. Please refer to the official schedules.[2] Dates/times of all ceremonies will be posted when officially scheduled.)	**August 8**
Degree Status Available (8:00 a.m. on ONE.UF)	**August 12**
Final Grades Available (transcript view, ONE.UF)	**August 12**
Faculty Course Evaluations Available to Instructors (on GatorRater)[1]	**August 13**
Holidays (no classes)	**July 3: Independence Day** Observed

1 GatorRater (https://evaluations.ufl.edu/evals/Default.aspx).

2 Official schedules (https://commencement.ufl.edu).

Fall '20

Event	Dates and Deadlines
Advance Registration (at or after assigned start time)	**March 23 - August 18**
UF (EEP) and State Employee Registration	**August 24 - 28** (11:59 pm of last day)
Regular Registration ($100 late fee after 11:59 pm pm deadline)	**August 21** (11:59 pm)
Classes Begin	**August 24**
Drop/Add (at or after assigned start time)	**August 24 - 28** (11:59 pm of last day)
Late Registration	**August 24 - 28** (11:59 pm of last day)
Non-Degree Registration (at or after assigned start time)	**August 26 - 28** (11:59 pm of last day)
Withdrawal from All Fall Courses with No Fee Liability	**August 28** (11:59 pm)
Residency Reclassifications	**September 4**
Fee Payments	**September 4**
S/U Grade Option	**September 11**
Degree Applications	**September 18**
Withdrawal with 25% Refund (W assigned to all Fall courses)	**September 18**
Drop Deadline (W assigned to individual course(s). Drops of individual courses must be approved by the student's college.)	**November 23** (11:59 pm)
Withdrawal Deadline (W assigned to all Fall courses)	**November 23** (11:59 pm)
Faculty Course Evaluation Period Opens (Dates can vary by course. Log on to GatorRater[1] to verify.)	**November 24**
Drop or Add a Course after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to drop or add after the deadline.)	**December 9**
Withdraw from All Fall Courses after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to withdraw from all courses after the deadline)	**December 9**
Classes End	**December 9**
Honors Theses due to College Advising Offices	**December 9**
Reading Days (no classes)	**December 10 - 11**
Faculty Course Evaluation Period Closes (Dates can vary by course. Log on to GatorRater[1] to verify.)	**December 11**
Final Exams	**December 12 - 18**
Commencement (Dates of graduate and professional school commencements can vary. Please refer to the official schedules.[2] Dates/times of all ceremonies will be posted when officially scheduled.)	**December 18 - 19**
Degree Status Available (8:00 a.m. on ONE.UF)[3]	**December 23**
Final Grades Available (transcript view, on ONE.UF)[3]	**December 23**
Faculty Course Evaluations Available to Instructors (on GatorRater)[1]	**December 24**
Holidays (no classes)	**September 7: Labor Day**
	TBA: Homecoming
	November 11: Veterans Day
	November 25 - 28: Thanksgiving break

1 GatorRater (https://evaluations.ufl.edu/evals/Default.aspx).

2 Official schedules (https://commencement.ufl.edu).

3 ONE.UF (https://one.uf.edu/dashboard).

Spring '21

Event	Dates and Deadlines
Advance Registration (at or after assigned start time)	**October 26 - January 3**
UF (EEP) and State Employee Registration	**January 5 - 8** (11:59 pm of last day)

Regular Registration ($100 late fee after 11:59 pm deadline)	**January 3** (11:59 pm)
Classes Begin	**January 5**
Drop/Add (at or after assigned start time)	**January 5 - 8, 11** (11:59 pm of last day)
Late Registration	**January 5 - 8, 11** (11:59 pm of last day)
Non-Degree Registration (at or after assigned start time)	**January 7 - 8, 11** (11:59 pm of last day)
Withdrawal from All Spring Courses with No Fee Liability	**January 11** (11:59 pm)
Fee Payments (3:30 pm, University Bursar)	**January 15** (3:30 pm)
Residency Reclassifications	**January 15**
S/U Grade Option	**January 22**
Degree Applications	**January 29**
Withdrawal with 25% Refund (W assigned to all Spring courses)	**January 29**
Drop Deadline (W assigned to individual course(s). Drops of individual courses must be approved by the student's college)	**April 9** (11:59 pm)
Withdrawal Deadline (W assigned to all Spring courses)	**April 9** (11:59 pm)
Faculty Course Evaluation Period Opens (Dates can vary by course. Log on to GatorRater[1] to verify.)	**April 10**
Drop or Add a Course after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to drop or add after the deadline)	**April 21**
Withdraw from All Spring Courses after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to withdraw from all courses after the deadline)	**April 21**
Classes End	**April 21**
Honors Theses due to College Advising Offices	**April 21**
Reading Days (no classes)	**April 22 - 23**
Faculty Course Evaluation Period Closes (Dates can vary by course. Log on to GatorRater[1] to verify.)	**April 23**
Final Exams	**April 24 - 30**
Commencement (Dates of graduate and professional school commencements can vary. Please refer to the official schedules.[2] Dates/times of all ceremonies will be posted when officially scheduled.)	**April 30 - May 2**
Degree Status Available (8:00 a.m. on ONE.UF)[3]	**May 5**
Final Grades Available (transcript view, on ONE.UF)[3]	**May 5**
Faculty Course Evaluations Available to Instructors (on GatorRater)[1]	**May 6**
Holidays (no classes)	**January 18: Martin Luther King, Jr. Day**
	March 6 - 13: Spring Break

1 GatorRater (https://evaluations.ufl.edu/evals/Default.aspx).

2 Official schedules (https://commencement.ufl.edu).

3 ONE.UF (https://one.uf.edu/dashboard).

Summer A/C '21

Summer A/C Event	Summer A Dates and Deadlines	Summer C Dates and Deadlines
Advanced Registration (at or after assigned start time)	**March 29 - May 6**	**March 29 - May 6**
UF (EEP) and State Employee Registration	**May 10 - 11** (11:59 pm of last day)	**May 10 - 11** (11:59 pm of last day)
Regular Registration ($100 late fee after 11:59 pm deadline)	**May 7** (11:59 pm)	**May 7** (11:59 pm)
Classes Begin	**May 10**	**May 10**
Drop/Add (at or after assigned start time)	**May 10 - 11** (11:59 pm of last day)	**May 10 - 11** (11:59 pm of last day)
Late Registration	**May 10 - 11** (11:59 pm of last day)	**May 10 - 11** (11:59 pm of last day)
Non-Degree Registration (at or after assigned start time)	**May 10 - 11** (11:59 pm of last day)	**May 10 - 11** (11:59 pm of last day)
Withdrawal from All Courses with No Fee Liability	**May 11** (11:59 pm)	**May 11** (11:59 pm)

Degree Applications	**May 12**	**June 30**
Fee Payments (3:30 pm, University Bursar)	**May 21** (3:30 pm)	**May 21** (3:30 pm)
Residency Reclassifications	**May 21**	**May 21**
S/U Grade Option	**May 19**	**May 28**
Withdrawal with 25% Refund (W assigned to all courses)	**May 19**	**May 28**
Honors Theses due to College Advising Offices	**June 9**	**July 28**
Drop Deadline (W assigned to individual course(s). Drops of individual courses must be approved by the student's college)	**June 11** (11:59 pm)	**July 30** (11:59 pm)
Withdrawal Deadline (W assigned to all courses)	**June 11** (11:59 pm)	**July 30** (11:59 pm)
Faculty Course Evaluation Period (Dates can vary by course. Log on to GatorRater[1] to verify.)	**June 12 - 18**	**July 31 - August 6**
Drop or Add a Course after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to drop or add after the deadline)	**June 18**	**August 6**
Withdraw from All Courses after the Drop/Withdrawal Deadline (students must petition their college with appropriate documentation for approval to withdraw from all courses after the deadline)	**June 18**	**August 6**
Classes End	**June 18**	**August 6**
Reading Days (no classes)	**None**	**None**
Final Exams	**In Class**	**In Class**
Commencement (Dates of graduate and professional school commencements can vary. Please refer to the official schedules.[2] Dates/times of all ceremonies will be posted when officially scheduled.)	**None**	**August 6 - 7**
Degree Status Available (8:00 a.m. on ONE.UF)[3]	**June 23**	**August 11**
Final Grades Available (transcript view, on ONE.UF)[3]	**June 23**	**August 11**
Faculty Course Evaluations Available to Instructors (on GatorRater)[1]	**June 24**	**August 12**
Holidays (no classes)	**May 31: Memorial Day**	**May 31: Memorial Day**
		June 21 - 25: Summer Break
		July 5: Independence Day Observed

1 GatorRater (https://evaluations.ufl.edu/evals/Default.aspx).

2 Official schedules (https://commencement.ufl.edu).

3 ONE.UF (https://one.uf.edu/dashboard).

All Approved Academic Calendars

All deadlines are effective **at 5:00 p.m.** on the last date unless indicated otherwise. All paperwork should be submitted to the appropriate office, generally the Office of the University Registrar in 222 Criser Hall (http://campusmap.ufl.edu/?loc=0031), **by 5:00 p.m.**, unless indicated otherwise.

All dates and deadlines may be subject to change.

- 2022-23 (http://catalog.ufl.edu/UGRD/dates-deadlines/pdfs/calendar2223.pdf)
- 2021-22 (http://catalog.ufl.edu/UGRD/dates-deadlines/pdfs/calendar2122.pdf)
- 2020-21 (http://catalog.ufl.edu/UGRD/dates-deadlines/pdfs/calendar2021.pdf)

- 2019-20 (http://catalog.ufl.edu/UGRD/dates-deadlines/pdfs/calendar1920.pdf)
- 2018-19 (http://catalog.ufl.edu/UGRD/dates-deadlines/pdfs/calendar1819.pdf)

Student Life

Student Services

Division of Student Affairs

The University of Florida Division of Student Affairs creates a signature student experience, developing bold and highly effective graduates. We take pride in guiding the university's efforts for students centered on: Health and Wellness, Leadership, Success Services, and Career Readiness.

The Office of the Vice President for Student Affairs, located in 135 Tigert Hall, has administrative responsibility for the Career Resource Center, Counseling and Wellness Center, Dean of Students Office, First Generation Student Success, GatorWell Health Promotion Services, Housing and Residence Education, J. Wayne Reitz Union, Machen Florida Opportunity Scholars Program, Multicultural and Diversity Affairs, Recreational Sports, Student Activities and Involvement, and Student Legal Services.
More Info (http://www.ufsa.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0026)

Campus Facilities

On 2,000 acres, most of it within the limits of a 125,000-population urban area, the university operates out of close to 1,000 buildings, almost 200 of them equipped with classrooms and laboratories. Facilities are valued at more than $1.5 billion. Notable among these are the Brain Institute, the physics building, University Art Gallery, a microkelvin laboratory capable of producing some of the coldest temperatures in the universe, a 100-kilowatt training and research nuclear reactor, the second largest academic computing center in the South, and a self-contained intensive-care hyperbaric chamber for treating near-drowning victims.

Ben Hill Griffin Stadium

Ben Hill Griffin Stadium, or *The Swamp*, is widely recognized as one of the toughest environments for a visiting team in all of college football. Several facelifts after the stadium's original construction in 1930 have made Florida Field at Ben Hill Griffin Stadium a state-of-the-art facility. *The Swamp* is the largest stadium in the state of Florida.
More Info (https://floridagators.com/facilities/?id=1) Map (http://campusmap.ufl.edu/?loc=0157)

Florida Museum of Natural History

The Florida Museum of Natural History is the largest natural history/anthropology museum in the Southeast and one of the top 10 in the nation. Its research collections contain nearly 6.5 million specimens.
More Info (http://www.flmnh.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0181)

Harn Museum of Art

The Samuel P. Harn Museum of Art, with 18,000 square feet of exhibit space, is one of the largest museums in the Southeast. The Curtis M. Phillips Center for the Performing Arts attracts world-class symphony orchestras, Broadway plays, operas, and large-scale ballet productions to Gainesville.
More Info (http://harn.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0309)

Newell Hall

Originally built in 1909, Newell Hall is the 3rd oldest building on campus. The facility was completely repurposed to create an active learning environment for both undergraduate and graduate students. It provides a high-tech, collaborative environment with open plan study rooms to foster a creative environment focused on innovation, flexibility, and accessibility.
Map (http://campusmap.ufl.edu/?loc=0013)

O'Connell Center

The Stephen C. O'Connell Center covers three acres and is used by the university for classes, intercollegiate sports, general recreation, and a variety of other entertainment events. An Olympic-sized swimming pool, dance studio, gymnastics studio, martial arts room, free style weight room, Nautilus center, track, badminton, volleyball courts, and practice basketball court are located in and around the perimeter of the 12,000 seat main arena. The versatility of this facility permits as many as eight recreational activities to be conducted simultaneously. All recreational, educational and entertainment facilities within the O'Connell Center have been designed to accommodate persons with disabilities.
More Info (http://oconnellcenter.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0094)

Reitz Student Union

The newly expanded J. Wayne Reitz Student Union provides space for a myriad of student and faculty activities. More than 20,000 people use the Reitz Union daily for various activities, including shopping, dining, student organizations and hotel services.
More Info (https://www.union.ufl.edu/default) Map (http://campusmap.ufl.edu/?loc=0686)

Campus Safety and Security

Contact: Email (wbarber@ufl.edu?Subject=Campus Safety and Security) | 352.273.3309

The University of Florida is one of the largest institutions of higher education in the nation. The university community is not unlike many other municipalities, and as such, has the same safety and security concerns as Anytown, USA.

The University of Florida Police Department (UFPD) recognizes that it must maintain the safest and most secure environment possible for all students, faculty and staff, and campus visitors. The UFPD has the utmost concern for personal and property safety, but with an open campus environment, safety becomes a shared responsibility.

The UFPD is a state of Florida and nationally accredited law enforcement agency. There are more than 90 fully certified and sworn officers who patrol the UF campus and its surrounding properties 24 hours per day, every day. The department has its own Criminal Investigations Division employing highly trained detectives to investigate any reported crime on campus. The officers of the Uniformed Patrol Division are highly trained campus law enforcement professionals who are equipped with the most contemporary crime-fighting techniques and tools. The Community Services Division is proactive in providing everyone in the campus community with the very latest information regarding personal and property protection through classes, programs and documents.

More Info (http://www.police.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0027)

Career Connections Center

The Career Connections Center (Career Center) provides events and services to help students develop and implement their Career Action Plan to realize their next steps. Students can work with Career Center staff to select a major, clarify their interests and abilities, develop professionally, build experience, and prepare for future internship, graduate school, or employment searches.

Students should activate their Gator CareerLink account to learn about the range of in-person and online career planning services available to them and see which employers are actively recruiting University of Florida candidates.

The Career Connections Center hosts hundreds of employers annually as they attend a variety of career events, hold on-campus interviews, and present information sessions and informal interactions with students.
More Info (https://career.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0686)

Visit the Career Connections Center to:

- Assess skills and interests to help choose a major (https://career.ufl.edu/students/explore-majors-careers/choose-or-change-a-majorcareer)
- Explore various career options (http://ufl.myplan.com)
- Secure internships and other work experience (https://career.ufl.edu/engage) before graduating
- Conduct mock interviews (https://career.ufl.edu/excel)
- Prepare for graduate school (https://career.ufl.edu/explore)
- Start a full-time job search (https://career.ufl.edu/engage)
- Create a Gator CareerLink to find internships and full-time positions

Counseling and Wellness Center

As the primary provider of mental health services on campus, the Counseling and Wellness Center offers high quality counseling and psychiatric case as well as developmental and preventative services to UF students.

The Counseling and Wellness Center at 3190 Radio Road provides counseling, consultation and crisis intervention services to currently enrolled undergraduate and graduate students and their spouses/partners. These services include individual, couples and group counseling; outreach programs and consultations; classes/guest lectures and research; and an extensive professional training program for mental health professionals. All of the Center's programs and services are designed to help students develop the personal awareness and skills necessary to take advantage of the educational opportunities at the university.
More Info (http://www.counseling.ufl.edu/cwc) Map (http://campusmap.ufl.edu/?loc=0081)

Dean of Students

The Dean of Students Office in 202 Peabody Hall provides programs and services to support students' academic success and personal development.
More Info (http://www.dso.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0004)

U Matter, We Care

At UF, every Gator counts. U Matter, We Care serves as UF's umbrella program for UF's caring culture and provides students in distress with support and coordination of the wide variety of appropriate resources. Families, faculty and students can contact umatter@ufl.edu seven days a week for assistance for students in distress.
Email (umatter@ufl.edu)

Emergency Response

Coordinates the university's response to student emergencies and crises. Assistance for students in distress is available 7 days a week.

New Student and Family Programs

Organizes first-year experience and new student programs including new student orientation.

Student Conduct and Conflict Resolution

Administers the university's student conduct code and academic honesty guidelines.

Medical Withdrawals

Conducts the petitions process for students who withdraw from the university for medical reasons.

Collegiate Veterans Success Center

As a Veteran Friendly Campus, it is important to provide a place for student veterans where veterans can meet, study, and spend time in a safe and relaxing environment. Ranked among the top centers for veterans in the country, the veteran's success center looks to provide ongoing support for those who have served in our armed forces.

Disability Resource Center

Contact: Email (DRCaccessuf@ufsa.ufl.edu) | 352.392.8565

The Disability Resource Center (DRC) in the Dean of Students Office utilizes knowledge and expertise in the fields of disability and higher education to create an inclusive environment by:

- Acting as a resource for students with physical, learning, sensory, or psychological disabilities;
- Facilitating and providing support for reasonable accommodations for students in order to afford equal access to academic courses, programs, and activities;
- Providing services to address the impact of disabilities on student performance and success in and out of the classroom;
- Empowering students to articulate their strengths and advocate for their accommodations; and
- Creating opportunities to educate the campus community on disability laws, trends, universal design, programs, and services.

The DRC serves more than 2,300 registered students through classroom accommodations, support groups, a testing center that proctors 10,000 tests annually, and one-to-one skills coaching. DRC staff are available to provide individual strategy sessions and consultation with students, faculty, and families. Email accessuf@dso.ufl.edu or call to schedule an appointment.
More Info (https://www.dso.ufl.edu/drc) Map (http://campusmap.ufl.edu/?loc=0020)

Gator Dining Services

Gator Dining is the official food service provider for the university. There are more than 45 dining locations on campus, including many national franchises like Subway, Chick-fil-A, and Starbucks. There are also

nutritious and vegetarian options as well as special treats like yogurt smoothies, gourmet coffees, and chocolate chip cookies.

Gator Dining Services offers two types of meal plans (http://gatordining.com/meal-plan-information): the all campus meal plan and the regular declining balance account.
More Info (http://www.bsd.ufl.edu/dining) Dining Locations (http://www.gatordining.com/mealplans/where-to-eat-map)

GatorLink, Gator 1 Card, and UFID

GatorLink

GatorLink establishes a unique computer identity for every student. The GatorLink account provides access to all online services and creates the UF **"username@ufl.edu"** email address.
More Info (http://helpdesk.ufl.edu/self-help/new-gator-resources/gatorlink)

All students must maintain and regularly check their GatorLink email as this is where all official university communications are sent.

Gator 1 Card

The Gator 1 card is the official university photo ID. The ID Card Services office is located on the ground floor of the UF Bookstore and Welcome Center complex on Museum Road.
More Info (http://www.gator1card.ufl.edu/Gator1C_info.asp)

All enrolled students, faculty and staff must have this card to:

- Enter CIRCA computer labs, university libraries, the infirmary, recreation centers.
- Sign up for intramural sports activities.
- Participate in the textbook deferment program at the UF Bookstore.
- Purchase tickets to university events.
- Vote in student government elections.
- Purchase food on campus with a Gator Dining or prepaid vending account.
- Use laundry facilities in some residence halls.
- Use as an ATM/debit card when activated through Wells Fargo Bank. More Info (https://www.wellsfargo.com/student/banking/campuscard)

UFID

UFID is an eight-digit number that serves as the primary identifier for all university records and transactions. Similar to a social security number, no two people will have the same number, and each person has only one. The UFID is assigned by the university, not chosen like a PIN. All students, faculty and staff have UFIDs, and the number is printed on the Gator 1 card.
More Info (http://identity.it.ufl.edu/process/uf-identifier)

Housing and Residence Education

Welcome to #WhereGatorsLive at the University of Florida. On-campus living means students are in on all the action and seconds away from everything as they get involved, build the path to their successful future, and make connections that will last a lifetime. UF Housing offers 26 different residence halls for undergraduate students and 6 different villages for graduate students and their families. Explore the options.
More Info (http://www.housing.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0753)

Beginning Freshmen

Freshmen entering the university will be offered a housing agreement based on the term they were admitted. Residence hall contracts are available for the academic year (summer B/fall/spring, fall/spring, spring/summer, and the summer terms).

Applying for campus housing does not guarantee an offer of residence hall space. If space is available, admitted students will receive an email link to the online residence hall contract process. To secure campus housing, the student must complete a contract, sign it and submit the advance rent payment by the deadline.

- Residence Halls (https://www.housing.ufl.edu/housing)
- Apply for Housing (http://www.housing.ufl.edu/apply)
- Transfer Student Information (https://housing.ufl.edu/living-options/apply/incoming-students)
- Villages (http://www.housing.ufl.edu/gfh/choices)
- Off-campus Housing Information (http://www.offcampus.ufl.edu)

Student Financial Affairs

The Office for Student Financial Affairs (SFA) in 107 Criser Hall administers financial aid programs and provides financial assistance and counseling. SFA awards aid according to financial need (the difference between current educational costs and what the individual student can pay toward these costs).
More Info (http://www.sfa.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0031)

Financial Aid

Financial aid is money provided to students and their families as gift aid (scholarships, grants) or self-help programs (loans and/or work) to help pay college costs. Financial aid can be awarded singly (one type of aid) or as a package.
More Info (http://www.sfa.ufl.edu/programs)

Grants

Grants are awarded for financial need. The largest grant program at UF is the Federal Pell Grant. Other grants include Federal Supplemental Educational Opportunity Grants, Federal Academic Competitiveness Grants, National SMART Grants, the Teacher Education Assistance for College and Higher Education (TEACH) Grant, Florida Student Assistance Grants, Turner Grants and UF Graduate Grants.
More Info (http://www.sfa.ufl.edu/programs/grants)

Scholarships

Scholarships are awarded based on academic performance and financial need. Most academic scholarships are awarded through the UF Office of Admissions and individual UF colleges. SFA administers a limited number of scholarships from private donors.
More Info (http://www.sfa.ufl.edu/programs/scholarships)

Student Employment

Federal Work-Study jobs may be awarded by SFA to students with demonstrated financial need as part of an aid package. Other job programs, such as OPS employment, do not require financial need and are open to any student with the desire to work who meets the basic criteria of half-time enrollment and a 2.0 GPA. Student jobs usually are 15-20 hours a week and pay at least minimum wage.
More Info (http://www.sfa.ufl.edu/programs/employment)

Loans

Loan programs for undergraduates include: Federal Direct Stafford loans, Federal Direct Unsubsidized Stafford loans, Federal Direct Graduate PLUS

loans, Federal Perkins Loans and UF institutional loans. These programs offer long-term, low-interest loans that must be repaid when the borrower graduates, withdraws or drops to less than half-time enrollment. Parents of dependent undergraduate students can take out educational loans through the Federal Direct PLUS loan program. Graduate students can take out educational loans through the Federal Grad PLUS loan program.
More Info (http://www.sfa.ufl.edu/programs/loans)

When to Apply

Applications are available January 1 each year. Although SFA cannot award financial aid until students have been admitted to UF, they should apply for aid as soon as possible after January 1. Students are considered for aid according to the date their aid file is complete. Federal Pell Grants, Federal Academic Competitiveness Grants (ACG), Federal SMART Grants, Federal Direct Stafford Loans and OPS employment are open throughout.

March 15 is UF's on-time deadline for financial aid application. SFA must receive students' application information from the federal need analysis processor by March 15 in order to be considered for Federal Work Study, Federal Perkins loans, Federal Supplemental Educational Opportunity Grants, Turner Grants and institutional (UF) loans. Financial aid at UF is awarded first-come, first-served. Students missing the deadline will only be considered for aid remaining after on-time students have received their awards.

- How to Apply for Financial Aid (http://www.sfa.ufl.edu/applying)
- Enrollment Requirements for Financial Aid (http://www.sfa.ufl.edu/receiving/enrollment-requirements)
- How to Apply for Student Employment (http://www.sfa.ufl.edu/programs/employment)

Financial Aid Academic Progress Requirements

UF students receiving financial aid are required to be in good standing and to maintain satisfactory academic progress.
More Info (http://www.sfa.ufl.edu/additional/academic-progress)

Recreational Sports

With an active student body and an abundance of Florida sunshine, recreations is a big part of life on campus. The university offers more than 60 intramural and club sports, personal training, a midnight fun run, a lake and one of the best fitness facilities in the country. So no matter a student's interest or skill level, there's always a great way to get involved with other Gators.

RecSports offers experiences that enrich the lives of University of Florida students through excellence in facilities, fitness, sport, adventure and play. RecSports is committed to fostering leaders, encouraging lifelong healthy lifestyles and maintaining welcoming and safe environments, including student activities and programs, campus recreation facilities, aquatics, Lake Wauburg and more.
More Info (http://www.recsports.ufl.edu) Locations (http://recsports.ufl.edu/locations)

Student Health Care Center

More Info (http://shcc.ufl.edu) Map (http://campusmap.ufl.edu/?loc=0018)

General Information and Helpful Links

Appointments, Hours and Locations, Excuse Notes, Fees for Services, etc.

The Student Health Care Center (SHCC), established in 1906, is an accredited outpatient clinic staffed by licensed, board-certified medical providers who pride themselves on keeping UF's students, faculty and staff healthy through a variety of primary and specialty care services, including general medical care, immunizations, dermatology, massage therapy, nutrition, occupational medicine, physical therapy, sports medicine, travel, women's health and workers compensation. The SHCC also conducts the annual campus flu shot campaign.
More Info (http://shcc.ufl.edu/services/primary-care/flu)

All registered UF students paying the tuition-included health fee may access SHCC services. If a student takes time off (for example, no summer classes), they must pay the per-semester optional health fee to receive care, which covers the costs associated with most SHCC office visits, but is not considered health insurance. Items not covered by the health fee that patients are financially responsible for include, but are not limited to health insurance, hospital visits, external community providers/facilities, physicals, procedures, X-rays, lab tests, medical equipment, prescriptions, non-prescription medications, vaccinations, massage and physical therapy.

In addition to university-sponsored insurance plans, the SHCC can direct-bill many private insurance companies for covered medical charges. Visit the SHCC's Health Insurance Options for more information on private insurance usage and verification, as well as current university-sponsored insurance details.
More Info (http://shcc.ufl.edu/fees-and-insurance/health-insurance-options)

UF Bookstore and Welcome Center

The University of Florida Bookstores are located in the UF Welcome Center on Museum Road just next to the student union, in the Health Science Center and in the College of Veterinary Medicine. UF Bookstores offer new and used textbooks, school supplies, gifts and clothing. Bookstore programs include textbook reservations and a 50% guaranteed book buyback.
More Info (http://www.bsd.ufl.edu/bookstore) Map (http://campusmap.ufl.edu/?loc=0886)

UF Welcome Center is within the main UF Bookstore next to the Reitz Union. The Welcome Center is maintained by the Office of Admissions and is the university's front door to visitors, providing weekday and Saturday information sessions and walking tours of campus.
More Info (http://www.admissions.ufl.edu/visit.html)

Courses

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

A-Z

Course Search (http://catalog.ufl.edu/course-search)

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About Courses

Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 27 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online SCNS to obtain course descriptions and specific information about course transfer between participating Florida institutions.
More Info (http://scns.fldoe.org)

Each participating institution controls the title, credit and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the SCNS. The listing of prefixes and associated numbers is referred to as the *SCNS taxonomy*. Descriptions of the content of courses are referred to as *statewide course profiles*.

Example of Course Identifier

Prefix	Level Code (1st digit)	Century Digit (2nd digit)	Decade Digit (3rd digit)	Unit Digit (4th digit)	Lab Code
ENC	1	1	0	1	
English Composition	Lower (Freshman) Level at this institution	Freshman Composition	Freshman Composition Skills	Freshman Composition Skills 1	No laboratory component in this course

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and the same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in *Exceptions to the General Rule for Equivalency*.

For example, a freshman composition skills course is offered by 59 different postsecondary institutions. Each institution uses ENC_101 to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, ENC means English Composition, the century digit 1 represents Freshman Composition, the decade digit 0 represents Freshman Composition Skills and the unit digit 1 represents Freshman Composition Skills 1.

In the sciences and certain other areas, a C or L after the course number is known as a lab indicator. The C represents a combined lecture and laboratory course that meets in the same place at the same time. The L represents a laboratory course or the laboratory part of a course that has the same prefix and course number but meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at the community college is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101.

Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term system. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

About the Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states: Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions.

Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions and participating non-public postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution,

including equivalency of faculty credentials, regardless of the public or non-public control of the previous institution.

The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

Since the initial implementation of the SCNS, specific disciplines or types of courses have been excepted from the guarantee of transfer for equivalent courses. These include courses that must be evaluated individually or courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

- Courses not offered by the receiving institution
- For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question
- Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses and Dissertations.
- College preparatory and vocational preparatory courses
- Graduate courses
- Internships, apprenticeships, practica, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
- Applied courses in the performing arts (Art, Dance, Interior Design, Music and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

Courses at Non-regionally Accredited Institutions

The SCNS makes available on its home page (in the Latest News box) a report entitled Courses at Non-regionally Accredited Institutions that contains a comprehensive listing of all non-public institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.
More Info (http://scns.fldoe.org)

Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to the Office of Admissions in 201 Criser Hall or,

The Florida Department of Education
Office of Articulation
1401 Turlington Building
Tallahassee, Florida 32399-0400

Special reports and technical information may be requested by calling the SCNS office at 850-245-0427 or visiting scns.fldoe.org (http://scns.fldoe.org).

Rec. 11/09/12; Office of Articulation, Florida Department of Education

Accounting

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Graduate Accounting Courses

Courses at the 5000 level are available to undergraduates who are admitted to the Fisher School of Accounting, who have met the admissions requirements for the Master of Accounting program and who have advisor approval. Prerequisites and graduate courses are listed in the graduate catalog.
More Info (http://gradcatalog.ufl.edu)

Courses

ACG 2021 Introduction to Financial Accounting 4 Credits
Grading Scheme: Letter Grade
Conceptual introduction to financial accounting. Emphasis is placed on wealth and income measurement and the preparation and interpretation of conventional financial statements.
Prerequisite: sophomore standing or higher.

ACG 2071 Introduction to Managerial Accounting 4 Credits
Grading Scheme: Letter Grade
Accounting for cost reporting and control. Reports, statements and analytical tools used by management.
Prerequisite: ACG 2021.

ACG 3101 Financial Accounting and Reporting 1 4 Credits
Grading Scheme: Letter Grade
Covers the theoretical structure of financial accounting, required financial statements, revenue recognition, operating assets and current liabilities.
Prerequisite: ACG 2021 and ACG 2071 with minimum grades of B.

ACG 3401 Business Processes and Accounting Information System 4 Credits
Grading Scheme: Letter Grade
Examination of the accounting information systems in a business organization. Coverage extends over topics such as business processes, internal controls, and the fundamentals of accounting information systems analysis, design, implementation and control.
Prerequisite: (ACG 2021 and ACG 2071 with minimum grades of B) and (CGS 2531 or ISM 3013).

ACG 3802 Professional Speakers Series 1 Credit
Grading Scheme: S/U
To expose students to technical topics and emerging issues in accounting, business and related professions such as law. The course addresses career opportunities in the practice of public accounting, industry, financial services, government, and in business more generally. (S-U)

ACG 4111 Financial Accounting and Reporting 2 4 Credits
Grading Scheme: Letter Grade
Continuation of ACG 3101 and includes coverage of accounting for investments, non-current liabilities and equities, accounting for income taxes, derivatives, accounting changes, statement of cash flows and earnings per share.
Prerequisite: ACG 3101 with minimum grade of C and FIN 3403.

ACG 4341 Cost and Managerial Accounting 4 Credits
Grading Scheme: Letter Grade
Extends cost and managerial coverage beyond that covered in ACG 2071. Topics include quantitative cost estimation, standard costing, flexible budgets, inventory management, pricing decisions, balanced scorecard, costs of quality, capital budgeting, transfer pricing and performance evaluations.
Prerequisite: (ACG 3101 and ACG 3401 with minimum grades of C) and QMB 3250 and (MAC 2234 or MAC 2312).

ACG 4632 Introduction to Auditing 3 Credits
Grading Scheme: Letter Grade
Introduces the basic concepts, principles and environment of financial statement auditing. The course emphasizes the audit decision-making process, researching audit standards, audit planning, evidence evaluation, audit reports, ethics and legal liability.
Prerequisite: ACG 4111 and ACG 4341 with minimum grades of C and AC classification.

ACG 4931 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Opportunity for in-depth study of topics not offered in other courses and of topics of special current significance.

ACG 4941 Supervised Accounting Internship 2-4 Credits
Grading Scheme: S/U
Applied work in professional accounting. Requires several papers and reports. (S-U)
Prerequisite: advanced permission of accounting internship coordinator.

ACG 4970 Honors Thesis 1 Credit
Grading Scheme: S/U
The thesis must be submitted to the Fisher School no later than the published deadline and includes an abstract. (S-U)
Prerequisite: Minimum 3.6 overall and a minimum 3.6 accounting GPA is required to earn the magna cum laude distinction. Minimum 3.8 overall and a minimum 3.8 accounting GPA is required to earn the summa cum laude distinction.

TAX 4001 Introduction to Federal Income Tax 3 Credits
Grading Scheme: Letter Grade
Introduces federal income taxation and is designed for students who pursue careers in accounting. The course develops a basic understanding of the federal income tax laws relating to businesses and provides a framework for integrating income tax planning into the business decision-making process.
Prerequisite: ACG 4111 and ACG 4341 with minimum grades of C, and AC standing.

TAX 4930 Special Topics in Taxation 1-4 Credits
Grading Scheme: Letter Grade
Course provides an opportunity for in-depth study of topics not offered in other courses and of topics of special current significance.
Prerequisite: Permission of school.

Advertising

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

ADV 2104C Advertising Writing 3 Credits
Grading Scheme: Letter Grade
Instruction and practice in writing for advertising. Emphasis on various types of writing in the field including creative briefs, copy and headlines.
Prerequisite: ENC 1102 and Journalism and Communications major.

ADV 3001 Advertising Strategy 3 Credits
Grading Scheme: Letter Grade
Overview of the strategic planning process required to develop a successful strategic, persuasive communication plan such as an advertising, integrated marketing communications, or social marketing campaign. Case studies and projects teach the skills needed to address a variety of communications management issues and engage audiences in diverse marketplaces.
Prerequisite: MAR 3023 and ADV 3008 with minimum grades of C and ADV major.

ADV 3008 Principles of Advertising 3 Credits
Grading Scheme: Letter Grade
Overview of the concepts, strategies, and tactics of modern advertising. Explores the role of advertising in society, culture, and economics, as well as the industry and its key organizations. Introduces specific practices used to develop, place, and evaluate both traditional and digital ads.
Prerequisite: sophomore standing or higher.

ADV 3403 Branding 3 Credits
Grading Scheme: Letter Grade
Principles of branding and brand strategy; learn to think creatively and critically about strategies and tactics applied to build and manage brands with insight into diverse audiences.
Prerequisite: MAR 3023 and ADV 3008 with minimum grades of C.

ADV 3420 Health Communication 3 Credits
Grading Scheme: Letter Grade
Overview of health communication in research, industry, and practice. Explore and better understand the role communication plays in health care delivery, health promotion, disease prevention, environmental and risk communication, media and mass communication, and technology.
Prerequisite: junior standing or higher.

ADV 3500 Digital Insights 3 Credits
Grading Scheme: Letter Grade
Acquiring, evaluating, and analyzing information for advertising decisions. Emphasizes understanding the scientific method, developing explicit and measurable research objectives, selecting appropriate methodologies, and analyzing data.
Prerequisite: MAR 3023 and ADV 3008 with minimum grades of C and ADV major.

ADV 3502 Advertising Sales 3 Credits
Grading Scheme: Letter Grade
Principles of selling media time and space to advertisers. An overview of sales opportunities and challenges in the various advertising media. How to prepare and deliver effective sales presentations.
Prerequisite: MAR 3023 and ADV 3008 with minimum grades of C and junior standing or higher in ADV.

ADV 3824 Advertising Strategy: Health / Social Influence Approach 3 Credits
Grading Scheme: Letter Grade
Learn the process of advertising and promotional strategy from a health/social marketing approach, which centers on global health issues. Learn to "sell science" and market public health messages to help change the world.
Prerequisite: (MAR 3023 and ADV 3008 with minimum grades of C) and Advertising major.

ADV 3920C Professional Workshop in Advertising 1-3 Credits
Grading Scheme: Letter Grade
Short-term intensive workshops in selected areas of professional development, skills, and projects. Workshops taught by professionals and often occur over three-day weekend periods. Topics change from semester to semester, with a focus on industry skills and subjects learned best from within a professional context.
Prerequisite: ADV 3008 with a minimum grade of C.

ADV 4101 Copywriting and Visualization 3 Credits
Grading Scheme: Letter Grade
Application of creative strategy/concepts, copywriting and design to the creation of advertising for traditional and nontraditional media. To evaluate and present creative work, create ads for multicultural audiences.
Prerequisite: 3JM ADV; minimum grades of C or better in ENC 3254, ADV 3001 and VIC 3001.
Corequisite: ADV 3500.

ADV 4102 Advanced Copywriting 3 Credits
Grading Scheme: Letter Grade
Advanced course in the application of creative strategy for print and electronic media requiring preparation of advertisements. Emphasis placed on research, planning, development of creative concepts, writing and design.
Prerequisite: 4JM ADV; minimum grade of B in ADV 4101.

ADV 4200 Advertising Graphics and Production 3 Credits
Grading Scheme: Letter Grade
Designed to acquaint students with print production techniques. Emphasis is placed on techniques related to the advertising business. Lectures review specific uses of design, typography and print production with lab sessions dedicated to practicing layout and production techniques.
Prerequisite: 3JM ADV; minimum grades of C in ADV 3008 and VIC 3001.

ADV 4300 Media Planning 3 Credits
Grading Scheme: Letter Grade
Provides an in-depth overview of the media planning process. Emphasizes the value of various media channels and evaluation methods to design innovative and integrated media strategies to reach and engage diverse audiences.
Prerequisite: 3JM ADV; minimum grades of C in ADV 3001 and ADV 3500.

ADV 4302 Great Ideas in Marketplace Communications 3 Credits
Grading Scheme: Letter Grade
Focuses on two aspects of strategic communications. First: creating, developing and producing advertising and promotional content for real live case studies. Second: evaluating topical issues and industry innovation in media content innovation.
Prerequisite: ADV 3008 and ENC 3254 and junior standing or higher in ADV.

ADV 4400 International and Cross Cultural Advertising 3 Credits
Grading Scheme: Letter Grade
Major concepts and issues in international and cross cultural advertising campaign planning including primary and secondary research to assess environmental situations, setting objectives, budgeting, media, creative, ethics and social responsibility.
Prerequisite: ADV 3008 with a minimum grade of C.

ADV 4800 Advertising Campaigns 3 Credits
Grading Scheme: Letter Grade
An advanced advertising course requiring the student to prepare and produce a complete general advertising campaign. Emphasis is placed on production methods, costs, research and media analysis.
Prerequisite: 4JM ADV; minimum grades of C or better in ADV 4101 and ADV 4300.

ADV 4801 Creative Advertising Competitions 1-3 Credits
Grading Scheme: Letter Grade
Create either a competitive creative campaign for a real-world client or participate in a creative advertising competition. Hone creative skills and learn to prepare professional pitches or presentations.
Prerequisite: ENC 3254

ADV 4905 Individual Problems 1-3 Credits
Grading Scheme: Letter Grade
The student and instructor will choose a problem or project which provides the student experience in his or her major field.
Prerequisite: 3JM ADV; at least 10 credits of 3000/4000-level advertising courses and department permission.

ADV 4910 Advertising Undergraduate Research 0-3 Credits
Grading Scheme: S/U
Mentored but self-directed work enables individuals or small groups to explore an issue of interest to them and to communicate their results to others. Depending on the topic, projects may involve inquiry, design, investigation, scholarship, discovery, or application.
Prerequisite: ADV 3500 with a minimum grade of C.

ADV 4930 Special Study in Advertising 2-3 Credits
Grading Scheme: Letter Grade
Variable advertising-related topics not covered in other advertising courses.
Prerequisite: 3JM ADV.

ADV 4931 Seminar: Ethics and Problems in Advertising 3 Credits
Grading Scheme: Letter Grade
Major concepts and issues in the effects of advertising on society, culture, and the economy with emphasis on ethical systems and ethical decision making.
Prerequisite: 3JM ADV; minimum grade of C in MMC 3203

ADV 4940 Advertising Internship 1-4 Credits
Grading Scheme: S/U
Complete an internship in advertising or related field with supervised on-the-job training. Requires 65 hours of work per credit, weekly progress reports, a summary report, and a supervisor's evaluation.
Prerequisite: ADV major; 2.50 minimum professional GPA; minimum grades of C in ADV 3008 and MAR 3023; one completed advertising-related course as needed; and department permission.

ADV 4941 Advanced Advertising Internship 1-3 Credits
Grading Scheme: Letter Grade
A structured internship program that is approved by the department as an immersion experience related to the field of advertising. Requires 65 hours of work per credit hour and submission of electronic portfolio including a culminating project from the internship.
Prerequisite: 4JM ADV; 2.50 minimum professional GPA; minimum grades of C in ADV 3008, MAR 3023 and ENC 3254; and department permission.

MMC 1009 Introduction to Media and Communications 1 Credit
Grading Scheme: Letter Grade
Introduces the tools, resources and academic and extra-curricular activities offered by the College of Journalism and Communications. Includes lessons on the history and organization of the college and academic and career preparation.
Prerequisite: 1JM or exploratory major, 2JM, or 3JM classification, or instructor approval.

MMC 2100 Writing for Mass Communication 3 Credits
Grading Scheme: Letter Grade
A preprofessional course designed to provide fundamental instruction and practice in writing as a basis for upper-division courses in advertising, journalism and public relations. Stresses the basic similarities in writing for all mass media. (WR)
Prerequisite: 6 credits of English and a JM designation.
Attributes: Satisfies 6000 Words of Writing Requirement

MMC 2121 Writing Fundamentals for Communicators 3 Credits
Grading Scheme: Letter Grade
One-third of the course is to ensure students have sufficient skill in grammar and punctuation to write with clarity. In two-thirds of the course, students put principles of good writing into practice with short writing assignments that have real-world applications.

MMC 3030 Personal Branding for Communicators 1 Credit
Grading Scheme: Letter Grade
Professional development course that stresses how to communicate and connect as professionals. Emphasizes mastery of writing, speaking, presentation and employment-seeking skills, working with media, handling media interviews and using social media to establish a professional identity.
Prerequisite: 3JM designation.

MMC 3203 Ethics and Problems in Mass Communications 3 Credits
Grading Scheme: Letter Grade
A cross-disciplinary introduction to ethics-relevant situations faced by media professionals. Topics include professional standards of conduct, audience representation and engagement and issues associated with the production, presentation and delivery of messages that reflect the best interests of audiences, clients and stakeholders.
Prerequisite: 2JM designation and ADV 3008, JOU 1001, PUR 3000 or RTV 3001 with minimum grade of C.

MMC 3254 Media Entrepreneurship 1 Credit
Grading Scheme: Letter Grade
Introduces media entrepreneurship with a focus on how digital technologies are transforming industries. Students work in teams to develop new digital media businesses. Develop and pitch ideas, explore market analysis, develop business and financial plans and study social media strategies.
Prerequisite: sophomore standing.

MMC 3420 Consumer and Audience Analytics 3 Credits
Grading Scheme: Letter Grade
Provides practical analytical skill-sets, benefiting those who plan careers in analytics/research, social media, media business, advertising/marketing and public relations.
Prerequisite: Junior standing.

VIC 3001 Sight, Sound and Motion 4 Credits
Grading Scheme: Letter Grade
Visual literacy is a prerequisite for success in most areas of mass communication. Teaches fundamentals of design across print, web and multimedia platforms. Also emphasizes how visual forms convey messages to readers.
Prerequisite: sophomore standing.

African and Asian | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

HUM 2420 African Humanities 3 Credits
Grading Scheme: Letter Grade
A general education course similar in philosophy and purpose to the basic sequence. Content selected from the philosophies, literature, arts and music of various African countries and regions. (H and N)
Attributes: General Education - Humanities, General Education - International

HUM 2424 African Cultures and Literatures 3 Credits
Grading Scheme: Letter Grade
A culturally based study of folktales, proverbs, drama, poetry and novels; and how these forms are used to portray African arts and ideas. (H and N)
Attributes: General Education - Humanities, General Education - International

SSA 3730 Language in African Society 3 Credits
Grading Scheme: Letter Grade
The role of language in the development of African societies. Language and nation building. (S and N)
Attributes: General Education - International, General Education - Social Science

SSA 4905 Individual Work 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course.
Prerequisite: department permission.

SSA 4930 Special Topics in African Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in African studies.

SST 2501 African Elements in the Americas 3 Credits
Grading Scheme: Letter Grade
Traces African influence in the Americas from the arrival of Africans on the continent until the present.

SST 4502 African Oral Literature 3 Credits
Grading Scheme: Letter Grade
An overview of African oral literature, introduces methodological and theoretical problems, and examines the sociopolitical and cultural relevance of the literature.
Prerequisite: instructor permission.

African Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AFS 2002 The African Experience: An Introduction to African Studies 3 Credits
Grading Scheme: Letter Grade
Introductory study of African society and culture that examines the richness, diversity, and time-depth of African civilizations. (S and N)
Attributes: General Education - International, General Education - Social Science

AFS 3300 Poverty and Development in Africa 3 Credits
Grading Scheme: Letter Grade
Contemporary study of development issues in Africa, their challenges and possible solutions; theme based and includes economic development, agriculture and the environment, social issues and gender equality, and democracy and political development.

AFS 3352 Culture, Health and Arts in Sub-Saharan Africa 3 Credits
Grading Scheme: Letter Grade
Explores Sub-Saharan African cultures, health issues and belief systems related to health and the arts. Also provides a framework to better understand health and health care systems in other cultures.
Prerequisite: junior standing or 6 credits minimum from AFH 2000 or AFS 2002 or AFS 4905 or AFS 4935 or HUM 2420 or HUM 2424.

AFS 3500 History of Islam in Africa 3 Credits
Grading Scheme: Letter Grade
Introduces the role of Islam in African history, with particular attention to the religion's place in economic and political systems.

AFS 3800 Childhood in African Literature and Cinema 3 Credits
Grading Scheme: Letter Grade
Explores African conceptions of childhood through the mediums of literature and film; examines how childhood is represented in diverse African cultures.

AFS 3930 Special Topics in African Studies 3 Credits
Grading Scheme: Letter Grade
Selected variable topics in African Studies.
Prerequisite: Junior standing or AFS 2002 with minimum grade of C.

AFS 4240 The African Family 3 Credits
Grading Scheme: Letter Grade
Understanding African societies south of the Sahara through the study of the functions, roles and meanings of households and families. Emphasizes diversity within and commonalities among the myriad forms of African families.

AFS 4260 Africans Abroad 3 Credits
Grading Scheme: Letter Grade
Examines lives of Africans and formation of African communities in contemporary Western settings. Also addresses the relationship between Africans in the contemporary Diaspora and their home communities in Africa.

AFS 4315 Critical Issues in Contemporary Africa 3 Credits
Grading Scheme: Letter Grade
Upper-division seminar that discusses perspectives on conflict resolution, corruption, economic development, environmental management, food security, governance, international assistance and public health in contemporary Africa. In addition, enhances skills in analysis, discussion and debate.

AFS 4330 Women and Politics in Africa 3 Credits
Grading Scheme: Letter Grade
Introduces historical and contemporary roles of women in African political systems, from local to national governance.

AFS 4335 Women in Africa 3 Credits
Grading Scheme: Letter Grade
Explores issues of gender, development and culture through memoirs, ethnographies, narratives and films about women in Africa.
Prerequisite: junior or senior standing.

AFS 4340 Community Conservation and Rural Development in Africa 3 Credits
Grading Scheme: Letter Grade
Examines the practicalities and theoretical foundations of community conservation in Africa, with particular attention to the relationship between conservation and rural development issues. Main themes include property rights, governance and local-global relations.

AFS 4345 Political Economy of Conservation in Africa 3 Credits
Grading Scheme: Letter Grade
Analyzes effectiveness of diverse approaches to natural resource preservation and uses. Case studies are primarily from southern and eastern Africa and readings focus on political and economic aspects of conservation strategies.

AFS 4350 HIV / AIDS in Africa 3 Credits
Grading Scheme: Letter Grade
Utilizes the social science literature on AIDS in Africa to explore the social, economic and broad cultural impacts of the epidemic.

AFS 4365 Urban Africa Today 3 Credits
Grading Scheme: Letter Grade
Interdisciplinary seminar incorporates scholarship from anthropology, geography, history, political science, sociology, and urban planning to understand African cities, their rapid growth, and their future development.
Prerequisite: junior standing or 6 credits minimum from AFS 2002 or AFS 3300 or AFS 4260 or AFS 4315 or AFS 4330 or AFS 4350 or AFS 4935.

AFS 4905 Individual Work 1-9 Credits
Grading Scheme: Letter Grade
Individual study and research for topics not covered in other courses.

AFS 4911 Undergraduate Research in African Studies 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

AFS 4935 African Studies Interdisciplinary Seminar 3 Credits
Grading Scheme: Letter Grade
Seminar on a selected interdisciplinary theme.
Prerequisite: junior or senior standing, or instructor permission.

AFS 4940 African Studies Internship 1-3 Credits
Grading Scheme: S/U
Complements an Africa-related internship experience through guided reflection, critical analysis, synthesis, and discussion.
Prerequisite: junior standing or higher and undergraduate coordinator approval.

African-American Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AFA 2000 Introduction to African-American Studies 3 Credits
Grading Scheme: Letter Grade
An integrated interdisciplinary exploration of selected themes and representative materials in the African-American experience in North America, emphasizing continuity and change. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AFA 3110 Key Issues in African-American and Black-Atlantic Thought 3 Credits
Grading Scheme: Letter Grade
The leading voices of resistance and social change that have influenced African-American intellectual history, black public consciousness, political action and social theory. (H and D) (WR).
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AFA 3240 The African Diaspora 3 Credits
Grading Scheme: Letter Grade
Overview of transnational fields of cultural contact, power and competing economic interests in which the African Diaspora developed. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

AFA 3303 The Wire 3 Credits
Grading Scheme: Letter Grade
Critically examine various themes presented in the television show, The Wire. Major topics include the illegal drug trade, race and ethnicity, sexuality, public policy and politics, K-12 education, and the news media.
Prerequisite: AFA 2000.
Attributes: General Education - Diversity, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

AFA 3332 Black Feminist and Womanist Theory 3 Credits
Grading Scheme: Letter Grade
Interdisciplinary survey of African-American and Afro-descendant women's contributions to feminist theory. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

AFA 3333 Black Power Movement 3 Credits
Grading Scheme: Letter Grade
An examination of the Black Power Movement, including major themes, roots in previous black organizing, associated groups and figures, and its influence on present society and activism.
Prerequisite: AFA 2000.

AFA 3350 Black Masculinity 3 Credits
Grading Scheme: Letter Grade
Integrated interdisciplinary exploration of selected themes and resources that represent the Black Masculine experience in North America, emphasizing continuity and change. (C, H, D, and E6)
Prerequisite: AFA 2000
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AFA 3354 Race, Religion and Rebellion 3 Credits
Grading Scheme: Letter Grade
Examination of the interplay of religion, race and rebellion in the organization and execution of the various revolts, insurrections and social movements of black people in the U.S. from the slavery period through the Civil Rights and Black Power Eras.
Prerequisite: AFA 2000

AFA 3356 African American Religion 3 Credits
Grading Scheme: Letter Grade
Explores the African American religious experience from the beginning of the African sojourn here in North America until the present.
Prerequisite: AFA 2000

AFA 3357 Civil Rights and Religion 3 Credits
Grading Scheme: Letter Grade
Examination of the role of religion in the African American Civil Rights Movement from the 1950s through the 1980s.
Prerequisite: AFA 2000

AFA 3360 Archaeology of African-American Life and Culture 3 Credits
Grading Scheme: Letter Grade
Historical overview of African-American archaeology, including important cases, key figures, major issues and development of the field. (S) (WR)
Attributes: General Education - Social Science, Satisfies 2000 Words of Writing Requirement

AFA 3363 The Black Experience: Psychological Perspectives 3 Credits
Grading Scheme: Letter Grade
An interdisciplinary course examining themes, premises and theories presented by major psychological theorists in their depictions and accounts of the behavior of Black people in America; the growth of Black psychology. (S and D) (WR)
Prerequisite: AFA 2000.
Attributes: General Education - Diversity, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

AFA 3371 History of Hip Hop 3 Credits
Grading Scheme: Letter Grade
Examines the blossoming of Hip Hop as a musical genre and as a cultural and political youth movement from the 1970s to the present, extending from its origins in New York city to the rest of the nation and the world.
Prerequisite: AFA 2000.

AFA 3850 Research Methods in African-American History 3 Credits
Grading Scheme: Letter Grade
Research methods in African-American history. (H and N OR S and N)
Prerequisite: AFA 2000 or instructor permission.
Attributes: General Education - Humanities, General Education - International, General Education - Social Science

AFA 3915C Mentoring At-Risk Youth 3 Credits
Grading Scheme: Letter Grade
A community service-learning course that develops mentoring and critical-thinking skills though instruction, analysis and service. (S and N) (WR)
Prerequisite: AFA 2000 or instructor permission.
Attributes: General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

AFA 3930 Special Topics in African-American Studies 3 Credits
Grading Scheme: Letter Grade
Lectures and seminars covering selected topics of current interests in African-American studies.
Prerequisite: junior or senior standing, or instructor permission.

AFA 4135 Theories of Black America 3 Credits
Grading Scheme: Letter Grade
A multi-disciplinary examination of some of the important theories and concepts used to explain Black social, political and cultural behavior in the United States for the past 150 years.
Prerequisite: AFA 2000.
Attributes: General Education - Diversity, General Education - Social Science

AFA 4225 Blacks in Florida 3 Credits
Grading Scheme: Letter Grade
Addresses the history and themes of Blacks in Florida between 1492 and 1975.
Prerequisite: AFA 2000 or instructor permission.

AFA 4352 Black Hair Politics 3 Credits
Grading Scheme: Letter Grade
Provides a comprehensive interdisciplinary examination of the history, sociology, psychology and economics of Black hair. Students will explore the textures, styles and meanings of Black hair as they relate to identity and power in society.
Prerequisite: AFA 2000.

AFA 4430 Black Lives Matter 3 Credits
Grading Scheme: Letter Grade
Examination of the particular historical, geographical, cultural, social, and political ways in which race was, and continues to be configured and deployed in the United States.
Prerequisite: AFA 2000.

AFA 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
Directed individual reading or research on topics in African-American studies.
Prerequisite: director permission.

AFA 4931 Special Topics 3 Credits
Grading Scheme: Letter Grade
Selected topics in African-American studies.
Prerequisite: AFA 2000.

AFA 4936 African-American Studies Senior Integrative Seminar 3 Credits
Grading Scheme: Letter Grade
Examination of bibliographic resources and analysis of theory, method and special problems in the field of African-American studies.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

AFA 4940 African-American Studies Internship 3 Credits
Grading Scheme: Letter Grade
Students complete internships with companies, individuals, institutions or organizations whose work adds to the knowledge and well-being of the African-American community.
Prerequisite: AFA 2000, at least two 3000-level AFA courses, African-American studies minor or major, and sophomore or higher standing.

AFA 4970 Honors Thesis 3 Credits
Grading Scheme: S/U
Comprehensive research paper that examines a relevant topic in the discipline of African-American studies. (S-U)
Prerequisite: AFA 2000.

Agricultural and Biological Engineering

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

ABE 2012C Introduction to Biological Engineering 3 Credits
Grading Scheme: Letter Grade
Introduces the process of design along with approaches to solving engineering problems, manipulations and presentations of engineering data and applied engineering concepts. (WR)
Prerequisite: MAC 2311.
Attributes: Satisfies 2000 Words of Writing Requirement

ABE 2062 Biology for Engineers 3 Credits
Grading Scheme: Letter Grade
Principles and engineering applications of biology. Principles and applications of biochemistry, genetics, microbial systems, animal systems, ecological systems and global systems. (B) (WR)
Attributes: General Education - Biological Science, Satisfies 6000 Words of Writing Requirement

ABE 3000C Applications in Biological Engineering 3 Credits
Grading Scheme: Letter Grade
Overview of the research and applications of biological engineering, such as bioprocessing, biotechnology, transport processes, biosensors, bioremediation, biological materials and biomedicine.
Prerequisite: BSC 2010 or equivalent.

ABE 3212C Land and Water Resources Engineering 4 Credits
Grading Scheme: Letter Grade
Introduces hydrology, flow through porous media, flood routing, grade control structures and erosion control.
Prerequisite: ENV 3040C and MAP 2302.
Corequisite: CWR 3201 or EGN 3353C.

ABE 3612C Heat and Mass Transfer in Biological Systems 4 Credits
Grading Scheme: Letter Grade
Transport phenomena, steady and unsteady-state heat conduction, radiation, free and forced convection, mass transfer, psychometrics and thermodynamics of biological processes.
Corequisite: ENV 3040C or CGN 3421 or ESI 4327C or (COP 2271 and COP 2271L).

ABE 3652C Physical and Rheological Properties of Biological Materials 3 Credits
Grading Scheme: Letter Grade
Theory and use of physical and rheological properties of biological materials in agricultural engineering applications.
Prerequisite: CHM 2045 and MAC 2313 and PHY 2048.

ABE 4000 Nonpoint Source Pollution Modeling 2 Credits
Grading Scheme: Letter Grade
Concepts, principles, and application of modeling and monitoring for assessment and management of nonpoint source pollution. Design and implementation of monitoring systems. Concepts of modeling agroecosystems and land use impacts on hydrologic/water quality response of upland catchments. Model selection, calibration, validation and application for comparative analysis. Screening models using geographic information systems. Case studies in current watershed management issues with a focus on agricultural waste and nutrient management using existing field and watershed models.

ABE 4008 Control Methods in SmartAg Systems 3 Credits
Grading Scheme: Letter Grade
Design, analysis, simulation, and programming modern control methods for applications in production agriculture, biological and food engineering, land and water resources. Learn theoretical concepts, application programming, and simulation techniques using classical and modern control approaches, fuzzy logic, neural networks, and other intelligent learning algorithms.
Prerequisite: MAP 2302 and PHY 2048;
Corequisite: EGM 3400.

ABE 4033 Fundamentals and Applications of Biosensors 3 Credits
Grading Scheme: Letter Grade
Provides a broad introduction to the field of biosensors, as well as an in-depth and quantitative view of biosensor design and performance analysis. Fundamental application of biosensor theory will be demonstrated, including: recognition, transduction, signal acquisition, and post processing/data analysis.
Prerequisite: MAP 2302 and BSC 2010 and CHM 2200.

ABE 4034 Remote Sensing in Engineering: Science, Sensors and Applications 3 Credits
Grading Scheme: Letter Grade
Develop an understanding of remote sensing theory, systems and applications using information obtained from the visible/near infrared, thermal infrared and microwave regions of the EM spectrum.
Prerequisite: MAP 2302 or the equivalent.

ABE 4042C Biological Engineering Design 1 2 Credits
Grading Scheme: Letter Grade
Design of engineered agricultural and biological systems and devices. Problem definition analysis, synthesis, project management, economic, environmental and social impacts. Individual and team projects.

ABE 4043C Biological Engineering Design 2 2 Credits
Grading Scheme: Letter Grade
Senior capstone design project.
Prerequisite: senior standing (4EG), ABE 4042C and two courses in area of specialization.

ABE 4171 Power and Machines for Biological Systems 3 Credits
Grading Scheme: Letter Grade
Design and specification of power and machine elements applied to agricultural, biological and land and water resources or food engineering; fundamentals of power units, design of machine elements and power transmission.
Prerequisite: EGM 3520 and (EGM 3400 or EGM 3401).

ABE 4231C Irrigation and Drainage Engineering 4 Credits
Grading Scheme: Letter Grade
Irrigation and drainage systems design, including pump sizing and specification, water distribution systems, plant water requirement, drainage systems and flood control.
Prerequisite: ABE 3212C.

ABE 4303C Structural and Environmental Design 3 Credits
Grading Scheme: Letter Grade
Design and analysis of structures and environmental modification systems used in agricultural production.
Prerequisite: ABE 2012C and ABE 3612C.

ABE 4413C Post-Harvest Operations Engineering 3 Credits
Grading Scheme: Letter Grade
Engineering principles and practices of post-harvest operations for the maintenance of quality of agricultural products. Design of systems and facilities.
Prerequisite: ABE 3612C.

ABE 4641 Modeling Coupled Natural-Human Systems 3 Credits
Grading Scheme: Letter Grade
Explore approaches to modeling coupled natural-human systems, drawing from both natural and social sciences. Topics include regime shift from dynamical systems and basic concepts from game theory and social-ecological system literature. These are combined in models that operationalize a conceptual framework. With guidance, develop models for final projects.
Prerequisite: MAC 2312 or equivalent.

ABE 4655C Bio-Based Products from Renewable Resources 3 Credits
Grading Scheme: Letter Grade
Provides the knowledge for the production of fuels, chemicals, and materials from renewable resources; includes the fundamental principles and practical applications of bio-based products: biorefinery and biobased products overview, fundamental concepts in understanding biorefinery and biobased products; materials, chemical platforms, and fuels from biomass.
Prerequisite: (CHM 2045 or CHM 2095) and (CHM 2046 or CHM 2096) or equivalent general chemistry courses or instructor permission.

ABE 4660 Applied Microbial Biotechnology 3 Credits
Grading Scheme: Letter Grade
Principles of microbial biotechnology with emphasis on applications of microorganisms for industrial processes; e.g., energy, environmental, food, pharmaceutical and chemical.

ABE 4662 Quantification of Biological Processes 3 Credits
Grading Scheme: Letter Grade
Quantitative description and analysis of biological processes pertaining to microbes, plants, animals and ecosystems. Biological transport phenomena, bioenergetics, enzyme kinetics, metabolism, bioregulation, circulatory and muscle systems, agroecosystems. Analytical and experimental laboratory for development of quantitative skills.
Prerequisite: (ABE 2062 or BSC 2010) and (EGN 3353C or CWR 3201).

ABE 4812 Food and Bioprocess Engineering Unit Operations 4 Credits
Grading Scheme: Letter Grade
Analysis of thermal freezing, evaporation, dehydration, contact equilibrium and mechanical separation processes as governed by the reaction kinetics and rheology of processed foods.
Prerequisite: ABE 3612C or CWR 3201 or EGN 3353C.

ABE 4905 Individual Study in Biological Engineering 1-4 Credits
Grading Scheme: Letter Grade
Selected problems of projects in the student's major field of engineering study.
Prerequisite: recommendation of department chair.

ABE 4912 Integrated Product and Processing Design 1 in Biological Engineering 3 Credits
Grading Scheme: Letter Grade
First part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes on time and within budget.

ABE 4913 Integrated Product and Process Design 2 in Biological Engineering 3 Credits
Grading Scheme: Letter Grade
Second part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes on time and within budget.
Prerequisite: ABE 4912.

ABE 4931 Professional Issues in Agricultural and Biological Engineering 1 Credit
Grading Scheme: Letter Grade
Current developments in agricultural and biological engineering, principles of agricultural and biological engineering practice and professional standards and ethics.

ABE 4932 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Variable subjects provide content for the study of agricultural engineering topics not offered in other courses.
Prerequisite: instructor permission.

ABE 4935 Writing Grant Proposals for Scholarships and Fellowships 2 Credits
Grading Scheme: Letter Grade
Introduces seniors in the Agricultural and Biological Engineering department to opportunities for obtaining scholarships, fellowships, internships, and teaching/research assistantships from federal funding agencies; includes funding sources and opportunities, provide guidelines for proposal writing. Requires preparing a proposal.
Prerequisite: Senior standing, must be pursuing a degree within the Agricultural and Biological Engineering department, and instructor permission.

ABE 4949 Work Experience in Biological Engineering 1-3 Credits
Grading Scheme: S/U
Work experience in the biological engineering industry with advisor approval. (S-U)
Prerequisite: Advisor approval

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

Agricultural and Life Sciences | General

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Courses

ALS 2410 Challenge 2050: Global Uncertainty 3 Credits
Grading Scheme: Letter Grade
Explores questions in human well-being and sustainability building a foundation for addressing global challenges associated with global population. Transdisciplinary experts lead diverse and innovative discussions, complex adaptive problem solving; and the integration of economic, environmental, food, health, and social system perspectives.
Prerequisite: arrange with advisor and department permission.

ALS 2931 Agricultural Honors 1-4 Credits
Grading Scheme: Letter Grade
Various courses offered. (WR)
Prerequisite: refer to the department.
Attributes: Satisfies 6000 Words of Writing Requirement

ALS 3030C Urban Agriculture 3 Credits
Grading Scheme: Letter Grade
Work with faculty and guest field experts to explore the concepts, issues, and opportunities for urban agricultural sustainability, and on the development and implementation of demonstrations of community urban agricultural projects. Culminates in a group presentation for campus and community stakeholders.
Prerequisite: sophomore standing or higher.

ALS 3133 Agricultural and Environmental Quality 3 Credits
Grading Scheme: Letter Grade
Analysis of effects of agriculture on environmental quality; emphasis on agricultural wastes and practices; potential for using agricultural systems for disposal of other wastes; effects of pollution on the agricultural environment. (P)
Attributes: General Education - Physical Science

ALS 3153 Agricultural Ecology 3 Credits
Grading Scheme: Letter Grade
Introduces the study of ecology from an agricultural perspective. Emphasizes ecological principles with examples and applications from agriculture.

ALS 3203 PC Use in Agriculture 3 Credits
Grading Scheme: Letter Grade
Introduces PC computer skills, file management, software application, hardware, purchasing one's own PC system. Focus is on the use of computers for preparing documents and presentations.

ALS 3415 Challenge 2050: Developing Tools for Changing the World 3 Credits
Grading Scheme: Letter Grade
The global population is projected to exceed 9 billion by the year 2050. Challenge 2050 requires innovative development of transdisciplinary solutions to complex, global issues. This course explores individual and team-based skills, competencies, and dispositions necessary to addressing the complex adaptive issues surrounding the challenge.
Prerequisite: ALS 2410.

ALS 3923 Honors Orientation 1 Credit
Grading Scheme: Letter Grade
Introduces the CALS honors program and develop the skills needed to complete a creative, scholarly project and an honors thesis. A variety of guest speakers, in-class and outside activities, discussion, writing and oral presentation are used to accomplish the learning objectives.
Prerequisite: must be enrolled in CALS upper-division honors program.

ALS 3940 Challenge 2050: the Experience 3 Credits
Grading Scheme: Letter Grade
Emphasizes trust building, accompaniment, and community development experiences within developing global contexts. Uses immersion experience to gain an understanding for concerns relating to population fluctuation, including issues related to economics, environment, food, health, and social systems. International immersion facilitates applying sustainable practices in developing areas.
Prerequisite: ALS 2410.

ALS 4404 International Studies 1-15 Credits
Grading Scheme: Letter Grade
Supervised study abroad.
Prerequisite: sophomore standing and minimum 18 years old.

ALS 4419 Challenge 2050: Creating Solutions 1 Credit
Grading Scheme: Letter Grade
Through this capstone experience course, students demonstrate and apply knowledge, skills, and dispositions in assigned transdisciplinary teams. Students complete a comprehensive proposal for a developmental initiative focused on addressing the 2050 Challenge of sustaining a global population.
Prerequisite: ALS 2410.

ALS 4900 Supervised Extension Experience in Agricultural and Life Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

ALS 4905 Individual Study in Agricultural and Life Sciences 1-3 Credits
Grading Scheme: Letter Grade
Individual study in agricultural and life sciences.
Prerequisite: permission of dean and instructor.

ALS 4911 Supervised Research in Agricultural and Life Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in agricultural and life sciences under faculty supervision. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

ALS 4915 Honors Thesis Research in Agricultural and Life Sciences 0-3 Credits
Grading Scheme: S/U
Independent research in agricultural and life sciences leading to an honors thesis. Student are mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

ALS 4932 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Variable subjects provide content for the study of agricultural topics not offered in other courses.

ALS 4936 CALS Leadership Institute Seminar 1 2 Credits
Grading Scheme: Letter Grade
Discussion-based seminar provides an introduction to leadership studies and personal leadership development. Exploration of personal leadership characteristics through various assessments and the development of a personal leadership development plan.
Prerequisite: admission to the CALS Leadership Institute Program.

ALS 4937 CALS Leadership Institute Seminar 2 2 Credits
Grading Scheme: Letter Grade
Discussion-based seminar provides an introduction to group and organizational leadership in local and global contexts. Personal assessment of strengths and further application of developed personal leadership plan to a global vision are included.
Prerequisite: ALS 4936.

ALS 4938 CALS Leadership Institute International Service and Learning Experience 2 Credits
Grading Scheme: Letter Grade
This seminar focuses on an international service and learning experience as a context for application of course content previously covered in the program. A compilation of documentation supporting leadership growth and reflection serve as closure to leadership institute.
Prerequisite: ALS 4936.

ALS 4941 Full-time Practical Work Experience in Agriculture 1-4 Credits
Grading Scheme: S/U
Variable subjects provide content for the study of agricultural topics not offered in other courses. (S-U)
Prerequisite: prior arrangement with advisor and dean's office.

ALS 4950 Challenge 2050: Taking Action 2-6 Credits
Grading Scheme: Letter Grade
Through supervised practical training, in conjunction with academic assignments at professional organizations, the Taking Action internship provides the opportunity to professionally examine and engage the global challenges associated with Challenge 2050.
Prerequisite: maintain GPA of 3.0, must be in good standing and must have completed the Challenge 2050 Global Challenge certificate with 3.0 average.

MCB 4782 Extremophiles 3 Credits
Grading Scheme: Letter Grade
Learn about the evolution, physiology, biochemistry, and molecular biology of extremophiles with emphasis on archaea and their viruses. Discuss principles of energy metabolism at the limits of life. Highlights research that incorporates cutting-edge techniques and biotechnology applications for using extremophiles to solve real world problems.
Prerequisite: CHM 2211 and either MCB 3020/MCB 3020L or MCB 3023/MCB 3023L.

Agricultural Education and Communication

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More Info (http://registrar.ufl.edu/soc)

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Courses

AEC 3030C Effective Oral Communication 3 Credits
Grading Scheme: Letter Grade
Strategies and techniques for effective presentations in the food, agricultural and natural resource professions. Emphasis on oral and visual techniques for formal and informal situations including leadership and group settings.

AEC 3033C Research and Business Writing in Agricultural and Life Sciences 3 Credits
Grading Scheme: Letter Grade
Establishes the importance of effective communication to success in both the educational and professional environments; emphasizes writing as a primary form of communication; examines the elements of effective written communication in organizational and scholarly areas; and explores the causes of ineffective writing and ways to correct them. (WR)
Prerequisite: Junior or senior standing.
Attributes: Satisfies 6000 Words of Writing Requirement

AEC 3065 Issues in Agricultural and Life Sciences 3 Credits
Grading Scheme: Letter Grade
Methods used to effectively communicate, inform, and influence policy decisions about agricultural and life sciences issues.
Prerequisite: Sophomore standing or higher.

AEC 3070C Digital Media Production in Agricultural and Life Sciences 3 Credits
Grading Scheme: Letter Grade
Introduces the history and incorporation of electronic media used in agricultural and natural resources sciences. Hands-on learning of electronic media technology as it relates to agriculture is emphasized.

AEC 3071 Social Media Strategy and Leadership for Agricultural and Life Sciences 3 Credits
Grading Scheme: Letter Grade
Learn how, when, and why to use various social media tools. Also learn to measure the effectiveness of these tools in reaching audiences with agricultural and life science messages.
Prerequisite: Sophomore standing or higher.

AEC 3073 Intercultural Communication 3 Credits
Grading Scheme: Letter Grade
Basic culturally coded communication behaviors, such as cultural values and beliefs, attitudes and verbal and non-verbal behavior, are examined to identify basic differences among individuals from diverse cultural backgrounds. Special emphasis on cultural communication issues in the agricultural and natural resources sciences are addressed. (S and N OR S and D)
Attributes: General Education - Diversity, General Education - International, General Education - Social Science

AEC 3209 Instructional and Event Planning in Agricultural and Life Sciences 3 Credits
Grading Scheme: Letter Grade
Instructional methodology that focuses on the selection and use of innovative teaching, presentation, meeting planning and evaluation strategies for teaching agricultural subjects in various educational settings.

AEC 3313 Development and Role of Extension Education 3 Credits
Grading Scheme: Letter Grade
Extension philosophy, programs, methods and leadership principles, and history of federal, state and local leadership in the development of the cooperative extension service.

AEC 3322 Moral Leadership in Agriculture and Natural Resources 3 Credits
Grading Scheme: Letter Grade
Explores ethical and moral foundations for organizational and personal practice within the context of agriculture, natural resources, and beyond; gain a greater understanding for the intersection between morality and ethics, effective decision-making, and applied organizational ethics.
Prerequisite: junior standing or higher.

AEC 3410 Fostering Innovation through Leadership 3 Credits
Grading Scheme: Letter Grade
By studying key leadership theories and models students will develop the basic skills and knowledge necessary to move an innovation from creation to implementation. Using specifically designed experiences, students will be able to think critically about leadership's direct application to innovation and change.
Corequisite: Enrollment in the Innovation Academy.

AEC 3413 Working with People: Interpersonal Leadership Skills 3 Credits
Grading Scheme: Letter Grade
Identifies and defines leadership in terms of intrapersonal and interpersonal skills.

AEC 3414 Leadership Development 3 Credits
Grading Scheme: Letter Grade
An understanding of the dynamic interactions of personal characteristics, technical skills, interpersonal influence, commitment, goals and power necessary for effective organizational leader and follower behaviors.

AEC 4031 The Communication Process in Agricultural and Life Sciences 3 Credits
Grading Scheme: Letter Grade
Survey of basic communication concepts as they apply to agriculture and natural resource industries. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

AEC 4035 Communication Practices for Agricultural and Life Sciences 3 Credits
Grading Scheme: Letter Grade
This course provides students the opportunity to master a variety of writing styles used in corporate and mass media settings. Emphasis is placed on mastery of writing skills. (WR)
Prerequisite: AEC 3070C and (AEC 4031 or JOU 3101) with minimum grades of C.
Attributes: Satisfies 6000 Words of Writing Requirement

AEC 4036 Advanced Agricultural Communication Production 3 Credits
Grading Scheme: Letter Grade
Provides directed experience in the following areas of agricultural communication: video production, graphic design, visual composition, desktop publishing and multimedia development.
Prerequisite: AEC 3070C.

AEC 4052 Communication Campaign Strategies in Agricultural and Life Sciences 3 Credits
Grading Scheme: Letter Grade
Examines the role of communication in agriculture, focusing on strategies and methods for agricultural information transfer.
Prerequisite: AEC 4031 with a minimum grade of C.

AEC 4200 Teaching Methods in Agricultural Education 3 Credits
Grading Scheme: Letter Grade
Focuses on the selection and use of teaching strategies, methods/approaches and techniques; evaluating learning; managing learning environments; and classroom management for teaching agricultural subjects in formal educational settings.

AEC 4202 Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies 3 Credits
Grading Scheme: Letter Grade
Introduces new and emerging areas in food agriculture and natural resource sciences. Emphasizes appropriate teaching techniques, curricula, and resources.
Prerequisite: AEC 4200.

AEC 4224 Special Methods in Teaching Agricultural Education 3 Credits
Grading Scheme: Letter Grade
Emphasizes supervised agricultural experience programs, record keeping, and related FFA awards. Classroom management techniques, discipline and liability issues are also discussed.
Prerequisite: AEC 4200 and AEC 4323.

AEC 4228 Laboratory Practices in Teaching Agricultural Education 3 Credits
Grading Scheme: Letter Grade
Laboratory practices in teaching mechanics and other operative skills, conducting field and laboratory classes and providing space and teaching facilities.
Prerequisite: AEC 4200, AEC 3323 and AOM 3220.

AEC 4323 Development and Philosophy of Agricultural Education 3 Credits
Grading Scheme: Letter Grade
Analyzes evolving concepts and philosophies of agricultural education programs by emphasizing the history, legislation, and principles underlying organization and practice.
Prerequisite: Junior or senior standing.

AEC 4417 Leadership for Personal and Organizational Change 3 Credits
Grading Scheme: Letter Grade
To prepare students for addressing complex personal and organizational issues related to leading change.
Prerequisite: AEC 3414.

AEC 4434 Communication and Leadership in Groups and Teams 3 Credits
Grading Scheme: Letter Grade
Focuses on leadership and communication in groups and teams. Topics include: what makes effective groups and teams, processes of groups and teams, relationships of members, and improving group/team performance.

AEC 4465 Global Leadership 3 Credits
Grading Scheme: Letter Grade
Integrated, practical, and dynamic framework for students to develop global literacy and leadership competencies. (N and S)
Prerequisite: AEC 3413 or AEC 3414.
Attributes: General Education - International, General Education - Social Science

AEC 4500 Program Development and Evaluation 3 Credits
Grading Scheme: Letter Grade
In-depth analysis of the development and evaluation of human and community resource programs based on programming theories, concepts and research. Emphasizes dimensions of responsive communities, determination of community needs and goals.

AEC 4504 Curriculum and Program Planning for Agricultural Education 3 Credits
Grading Scheme: Letter Grade
Principles and practices used in designing courses of instruction for effective teaching and total program development.

AEC 4900 Supervised Extension in Agricultural Education and Communication 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural education and communication under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

AEC 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
Topics and special problems selected from fields such as 4-H and FFA work, demonstrations, farm and home management, rural development, pre-school planning and post-school evaluation and planning.
Prerequisite: instructor permission.

AEC 4911 Supervised Research in Agricultural Education and Communication 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in Agricultural Education and Communication under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

AEC 4915 Honors Thesis Research in Agricultural Education and Communication 0-3 Credits
Grading Scheme: S/U
Independent research in Agricultural Education and Communication leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

AEC 4930 Communication and Leadership Development Capstone Experience 3 Credits
Grading Scheme: Letter Grade
Integrates content and skills that communication and leadership development students have learned in their prerequisite courses.
Prerequisite: AEC 3070C and AEC 4031 and AEC 4035 and AEC 4036.

AEC 4932 Special Topics in Agricultural Education and Communication 1-3 Credits
Grading Scheme: Letter Grade
Special topics in Agricultural Education and Communication.
Prerequisite: Sophomore standing or higher.

AEC 4941 Agricultural Education Internship 1-9 Credits
Grading Scheme: Letter Grade
Practical experience in agricultural training and development through agricultural education organizations, agribusiness and natural resources education, and/or agricultural and outreach programming.
Prerequisite: junior or senior standing; AEC or TCH major.

AEC 4942 Agricultural Education Internship 6-9 Credits
Grading Scheme: Letter Grade
Individual capstone internship within a school-based setting where students observe, participate in, and lead educational instruction, curricula development, assessment of school-based student learning, supervision, and assist in advising a student leadership organization.
Prerequisite: senior standing and successful completion of all three portions of the Florida Teacher Certification Examination (FTCE) - General Knowledge, Professional Education and Agriculture 6-12.

AEC 4943 Leadership Development Internship 2-6 Credits
Grading Scheme: Letter Grade
An individual program whereby students are apprenticed to officials to gain practical experience in agricultural organizations, industry and/or the county extension program.
Prerequisite: 15 credits of communication and leadership courses with no grade below C. Nine credits must include AEC 3070C, AEC 4031, and AEC 3413 or AEC 4434.

AEC 4944 Cooperative Extension Internship 4-6 Credits
Grading Scheme: Letter Grade
The cooperative extension internship provides students the opportunity to develop practical on-the-job supervised experience in cooperative extension, primarily at the county level.
Prerequisite: senior standing, AEC 3313; minimum 2.0 GPA.

AEC 4948 Agricultural Communication Internship 2-6 Credits
Grading Scheme: Letter Grade
An individual program whereby students gain supervised experience in agricultural communications including reporting, writing, editing, photography, graphics, broadcasting, advertising or public relations.
Prerequisite: 15 credits of communication and leadership courses with no grade below C. Nine credits must include AEC 3070C, AEC 4031, and AEC 3413 or AEC 4434.

ALS 2410 Challenge 2050: Global Uncertainty 3 Credits
Grading Scheme: Letter Grade
Explores questions in human well-being and sustainability building a foundation for addressing global challenges associated with global population. Transdisciplinary experts lead diverse and innovative discussions, complex adaptive problem solving; and the integration of economic, environmental, food, health, and social system perspectives.
Prerequisite: arrange with advisor and department permission.

ALS 3415 Challenge 2050: Developing Tools for Changing the World 3 Credits
Grading Scheme: Letter Grade
The global population is projected to exceed 9 billion by the year 2050. Challenge 2050 requires innovative development of transdisciplinary solutions to complex, global issues. This course explores individual and team-based skills, competencies, and dispositions necessary to addressing the complex adaptive issues surrounding the challenge.
Prerequisite: ALS 2410.

ALS 3940 Challenge 2050: the Experience 3 Credits
Grading Scheme: Letter Grade
Emphasizes trust building, accompaniment, and community development experiences within developing global contexts. Uses immersion experience to gain an understanding for concerns relating to population fluctuation, including issues related to economics, environment, food, health, and social systems. International immersion facilitates applying sustainable practices in developing areas.
Prerequisite: ALS 2410.

ALS 4419 Challenge 2050: Creating Solutions 1 Credit
Grading Scheme: Letter Grade
Through this capstone experience course, students demonstrate and apply knowledge, skills, and dispositions in assigned transdisciplinary teams. Students complete a comprehensive proposal for a developmental initiative focused on addressing the 2050 Challenge of sustaining a global population.
Prerequisite: ALS 2410.

ALS 4932 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Variable subjects provide content for the study of agricultural topics not offered in other courses.

ALS 4950 Challenge 2050: Taking Action 2-6 Credits
Grading Scheme: Letter Grade
Through supervised practical training, in conjunction with academic assignments at professional organizations, the Taking Action internship provides the opportunity to professionally examine and engage the global challenges associated with Challenge 2050.
Prerequisite: maintain GPA of 3.0, must be in good standing and must have completed the Challenge 2050 Global Challenge certificate with 3.0 average.

PLS 3080 Introduction to Horticultural Therapy 3 Credits
Grading Scheme: Letter Grade
This course describes the profession and practice of horticultural therapy including its history, current state, and relevant literature and theories. The course will explore peopleplant relationships, therapeutic methods and benefits, and populations served. Students will also be introduced to existing programs and the role of therapeutic gardens.
Prerequisite: sophomore standing.

Agricultural Operations Management

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More Info (http://registrar.ufl.edu/soc)

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Courses

AEB 4085 Agricultural Risk Management and the Law 3 Credits
Grading Scheme: Letter Grade
Develops an understanding of the basic concepts of common and statutory law. Identifies and addresses current legal issues of importance at the personal and professional levels. Develops an understanding of risk and the solutions for managing risk and relates the concepts of risk management and law in limiting exposure to legal liability.

ALS 3133 Agricultural and Environmental Quality 3 Credits
Grading Scheme: Letter Grade
Analysis of effects of agriculture on environmental quality; emphasis on agricultural wastes and practices; potential for using agricultural systems for disposal of other wastes; effects of pollution on the agricultural environment. (P)
Attributes: General Education - Physical Science

AOM 2520 Global Sustainable Energy: Past, Present and Future 3 Credits
Grading Scheme: Letter Grade
Explore the global history of energy sources; investigate new energy sources and analyze international solutions to future needs.

AOM 3073 Safety in Agriculture 3 Credits
Grading Scheme: Letter Grade
Safety concepts, principles, practices, rules and regulations as they relate to agriculture. Developing and conducting safety programs and conducting safety inspections and accident investigations are other aspects of the course.

AOM 3220 Agricultural Construction and Maintenance 3 Credits
Grading Scheme: Letter Grade
Selection and use of materials and tools used in planning, constructing and maintaining buildings. Students will participate in class lectures and hands-on laboratory activities to build full-scale projects involving framing, plumbing, electrical, windows, etc. Building codes and building science are combined to provide an introduction to the changing world of construction.

AOM 3333 Pesticide Application Techniques 3 Credits
Grading Scheme: Letter Grade
Equipment and methods used to apply pesticides in agriculture. Emphasizes techniques used to avoid misapplication, a common cause of pesticide failures.

AOM 3734 Irrigation Principles and Practices in Florida 3 Credits
Grading Scheme: Letter Grade
Irrigation practice related to Florida agriculture. The course deals with irrigation system characteristics, management, maintenance and economics.
Prerequisite: MAC 1147.

AOM 4060 Agri-food Systems Innovation 3 Credits
Grading Scheme: Letter Grade
Students explore the role of innovation in food systems from a reverse chain perspective. Students will gain knowledge of the food system framework from a multi-level (i.e., individual, organizational, etc.) perspective, identify current, innovative business and technological practices, as well as present and think critically about future trends in food.
Prerequisite: Any AOM course and any ABE course and any PKG course and junior standing or higher.

AOM 4062 Principles of Food Engineering 4 Credits
Grading Scheme: Letter Grade
The functional requirements and principles of operation of systems for handling and processing food and agricultural products.
Prerequisite: MAC 1147 and 3 credits of physics.

AOM 4314C Power and Machinery Management 3 Credits
Grading Scheme: Letter Grade
Functional requirements, operating principles, performance, safety and economic application of agricultural power units and field machines for citrus, vegetable and field crop production.

AOM 4434 Precision Agriculture 3 Credits
Grading Scheme: Letter Grade
Principles and applications of technologies supporting precision farming and planning for natural resource data management. Global positioning systems (GPS), geographic information systems (GIS), variable rate technologies (VRT), data layering of independent variables, automated guidance, Internet, information access and computer software for management.
Prerequisite: junior standing or higher.

AOM 4444C Electrical Power and Instrumentation for Agricultural Operations Management 3 Credits
Grading Scheme: Letter Grade
Fundamental concepts of electricity, power, instrumentation, computer control operations and selected transducers. Foundation to aid in management of agricultural processing operations.

AOM 4455 Agricultural Operations and Systems 3 Credits
Grading Scheme: Letter Grade
Quantitative and managerial techniques for management and planning of technical resources in agriculture. Applications of queuing theory, project scheduling, optimization and expert decision systems.
Prerequisite: MAC 1147 and a computer course.

AOM 4461 Sustainable Agricultural Systems 3 Credits
Grading Scheme: Letter Grade
Minimizing energy and costs in agricultural and natural resource systems and industries. Students explore ways to enhance sustainable systems by improving efficiency. Topics include agricultural machinery, pumps, motors, fans, refrigeration, lights and construction methods.
Prerequisite: senior standing and PHY 2004 or the equivalent.

AOM 4521 Introduction to Biofuels 3 Credits
Grading Scheme: Letter Grade
An overview of biofuel production related to technologies and feedstocks, economics of producing biofuels and impact on the environment and the local economy. Dealing specifically with liquid and gaseous biofuels and bioenergy produced from renewable resources, it provides a summary of the past, present and future production technologies and applications.
Prerequisite: BSC 2010 and PHY 2004 and CHM 2045 or the equivalents.

AOM 4642 Environmental Systems for Agricultural Structures 3 Credits
Grading Scheme: Letter Grade
Effects of the environment on plant and animal production, processing operations and quality of stored produce. Selection of building materials and sizing of components of environmental systems in agricultural structures to enhance more efficient agricultural production, processing and storage.
Prerequisite: MAC 1147 and 3 credits of physics.

AOM 4643 Environmental Hydrology: Principles and Issues 3 Credits
Grading Scheme: Letter Grade
This is a basic course in environmental hydrology intended for agricultural and natural resource managers. The first half of the course covers scientific principles of the hydrologic cycle while the second half investigates case studies of current water quality and water management issues.

AOM 4900 Supervised Extension Experience in Agricultural Operations Management 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural operations management under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

AOM 4905 Special Problems in Agricultural Operations Management 1-4 Credits
Grading Scheme: Letter Grade
Selected problems or projects in the student's major field of mechanized study.
Prerequisite: permission of department chair or advisor.

AOM 4911 Supervised Research in Agricultural Education and Communication 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in Agricultural Education and Communication under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

AOM 4915 Honors Thesis Research in Agricultural Operations Management 0-3 Credits
Grading Scheme: S/U
Independent research in agricultural operations management leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

AOM 4932 Special Topics in Agricultural Operations Management 1-4 Credits
Grading Scheme: Letter Grade
Variable topics provide content for the study of mechanized agriculture topics not offered in other courses.
Prerequisite: instructor permission.

AOM 4933 Professional Practices in Agricultural Operations Management 1 Credit
Grading Scheme: Letter Grade
Professionalism and interfacing of technical skills. Topics include ethics, continuing education, placement skills and professional development in agricultural operations management.
Prerequisite: junior standing in agricultural operations management.

AOM 4941 Full-Time Practical Work Experience in Agricultural Operations Management 1-4 Credits
Grading Scheme: S/U

Agronomy

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Courses

AGG 3501 Environment, Food and Society 3 Credits
Grading Scheme: Letter Grade
Global issues and trends in population growth, natural resource (soil, water and plant genetic biodiversity) utilization, climate change and potential impacts of current trends on agriculture, natural resources, global food security and sustainability. (B)
Attributes: General Education - Biological Science

AGR 3303 Genetics 3 Credits
Grading Scheme: Letter Grade
The science and physical basis of inheritance, genes as units of heredity and development, and the qualitative and quantitative aspects of genetic variation. (B)
Prerequisite: basic course in biology, botany or zoology.
Attributes: General Education - Biological Science

AGR 4212 Alternative Cropping Systems 3 Credits
Grading Scheme: Letter Grade
Examines alternative cropping systems, focusing on issues of sustainability, against a backdrop of trends occurring in conventional agriculture.

AGR 4214C Applied Field Crop Production 3 Credits
Grading Scheme: Letter Grade
Students will plant and manage a group of field crops. Experience in soil sampling, interpretation of nutrient and nematode test results, fertilization, pest control and harvesting are gained. Students will submit a term report.

AGR 4231C Forage Science and Range Management 4 Credits
Grading Scheme: Letter Grade
Scientific and technological developments in the selection, production and utilization of forage crops, and in the development and management of grazing areas. (B)
Attributes: General Education - Biological Science

AGR 4304 Plant Chromosomes and Genomes 3 Credits
Grading Scheme: Letter Grade
Concepts of plant DNA organization in chromosome structure, the principles and technologies of cytogenetics, the plant genomic DNA structure and function, concepts of transcriptome, the plant genomic databases, the DNA sequencing technologies and the basic tools for nucleotide sequence analysis.
Prerequisite: AGR 3303 or PCB 3063.

AGR 4320 Plant Breeding 3 Credits
Grading Scheme: Letter Grade
The science and technology of plant improvement.
Prerequisite: AGR 3303 or PCB 3063.

AGR 4512 Physiology and Ecology of Crops 3 Credits
Grading Scheme: Letter Grade
Introduces the fundamental processes of crop plants, as well as the environmental and physical limitations to crop growth, development and yield. Focus is on physiology and ecology of agronomic crop plants. (B)
Prerequisite: AGR 3005 or the equivalent.
Attributes: General Education - Biological Science

AGR 4900 Supervised Extension in Agronomy 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agronomy under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

AGR 4905 Individual Study 1-3 Credits
Grading Scheme: Letter Grade
Scientific study of individual problems in crop production, weed science, genetics or plant breeding.
Prerequisite: minimum of one course in agronomy and instructor permission.

AGR 4911 Supervised Research in Agronomy 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in Agronomy under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

AGR 4915 Honors Thesis Research in Agronomy 0-3 Credits
Grading Scheme: S/U
Independent research in agronomy leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

AGR 4932 Agronomy Topics 1-3 Credits
Grading Scheme: Letter Grade
Critical review of selected topics in specific agronomic areas.

ALS 4154 Global Agroecosystems 3 Credits
Grading Scheme: Letter Grade
Focuses on the principles of agroecology and presentation of topics that integrate ecological with agricultural principles to optimize resource conservation, productivity, societal benefit, and profitability.
Prerequisite: SWS 3022 and ALS 3153 and AGR 4214C or the equivalent.

ALS 4914 Project Team Research: Building Skills in Agrobiology 3 Credits
Grading Scheme: Letter Grade
Hands-on experience in addressing a real-world problem faced by an agricultural industry partner. Production of a detailed plan, project design, and preliminary data for evaluating and solving the problem. Offered every term.
Prerequisite: Junior standing or higher.

PCB 2441 Biological Invaders 3 Credits
Grading Scheme: Letter Grade
Introduces plants and animals that are invading Florida and the U.S. Why biological invaders are second only to habitat destruction as threats to natural ecosystems, what makes some species invasive, how to control or prevent invasions, where international commerce may be regulated, and who is affected by such issues. (B)
Attributes: General Education - Biological Science

PLS 2003C Plants That Feed the World 3 Credits
Grading Scheme: Letter Grade
Introduces 25 of humankind's most important food crop plants with emphasis on soil and climatic adaptations, major producers and consumers, nutritional attributes, processing needs and types of products. Students will see the plants and seeds, and the food and industrial products of the crop plants under study. This is an introductory course for majors and non-majors who have no previous academic experience with food crop plants. (B)
Attributes: General Education - Biological Science

PLS 3004C Principles of Plant Science 3 Credits
Grading Scheme: Letter Grade
Introduces the principles and practices of plant production systems. An overview of plant evolution, anatomy, physiology, improvement, pest, water and nutrient management as applied to a variety of plant production systems. (B)
Prerequisite: BOT 2010C or BSC 2010.
Attributes: General Education - Biological Science

PLS 4601C Principles of Weed Science 3 Credits
Grading Scheme: Letter Grade
Introduces basic and applied aspects of weed science. Topics include weed biology and ecology, herbicide physiology and weed control techniques. The lab covers weed identification, herbicide application technology and other aspects of weed science.

PLS 4613 Aquatic Weed Control 3 Credits
Grading Scheme: Letter Grade
Florida's aquatic weed problems and methods of chemical, biological, mechanical and physical weed control. Topics include plant biology/ecology, herbicide residue, lake reclamation, fish-plant interactions and laws regulating aquatic weed control.
Prerequisite: refer to the department.

PLS 4941 Practical Work Experience 1-3 Credits
Grading Scheme: S/U
Practical, hands-on experience in the plant sciences through a paid internship in the industry. This must be a new experience and related to the student's field of study. One month of full-time work is required for each credit.
Prerequisite: junior standing and AG-PLS major.

Akan | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

AKA 1130 Beginning Akan 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

AKA 1131 Beginning Akan 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: AKA 1130 with minimum grade of C or the equivalent.

AKA 2200 Intermediate Akan 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: AKA 1131 with minimum grade of C, or the equivalent.

AKA 2201 Intermediate Akan 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study.
Prerequisite: AKA 2200 with minimum grade of C, or the equivalent.

AKA 3410 Advanced Akan 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: AKA 2201 with minimum grade of C, or the equivalent.

AKA 3411 Advanced Akan 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study.
Prerequisite: AKA 3410 with minimum grade of C, or the equivalent.

Amharic | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AHM 1130 Beginning Amharic 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading, and writing.

AHM 1131 Beginning Amharic 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: AHM 1130 with minimum grade of C, or the equivalent.

AHM 2200 Intermed Amharic 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: AHM 1131 with minimum grade of C, or the equivalent.

AHM 2201 Intermediate Amharic 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study.
Prerequisite: AHM 2200 with minimum grade of C, or the equivalent.

AHM 3410 Advanced Amharic 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: AHM 2201 with minimum grade of C, or the equivalent.

AHM 3411 Advanced Amharic 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study.
Prerequisite: AHM 3410 with minimum grade of C or the equivalent.

Animal Sciences

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

ALS 4932 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Variable subjects provide content for the study of agricultural topics not offered in other courses.

ANS 2002 The Meat We Eat 3 Credits
Grading Scheme: Letter Grade
Consumer-oriented elective covering meat as a food, its inspection for wholesomeness, meat grading, identification, processing, selection, preparation, and serving. Emphasizes preparation of economical, nutritious and palatable meals centered on meat. (B)
Attributes: General Education - Biological Science

ANS 2005 The Role of Animals in Human History 3 Credits
Grading Scheme: Letter Grade
Surveys the importance of animals through human history, from the Stone Age to the present. The domestication of dogs, cats, major farm animals and some less familiar, such as camels, reindeer, and buffalo and the role they played in different societies and cultures across human history. (H, N)
Attributes: General Education - Humanities, General Education - International

ANS 2615C Meat Selection and Grading 2 Credits
Grading Scheme: Letter Grade
Grading and classifying beef, pork, and lamb carcasses and cuts.

ANS 3006 Introduction to Animal Science 3 Credits
Grading Scheme: Letter Grade
Role of beef cattle, dairy cattle, swine, sheep, poultry, and horses in serving humans. Introduces anatomy and physiology of digestion, growth, reproduction, and the application of genetics to livestock improvement.

ANS 3006L Introduction to Animal Science Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory experiences designed to accompany ANS 3006; must be registered for ANS 3006 concurrently or have already completed the lecture course.
Corequisite: ANS 3006 for AL majors only.

ANS 3008 Livestock Behavior and Welfare 3 Credits
Grading Scheme: Letter Grade
Introduces basic principles and applications of animal behavior, including approaches to improve animal welfare through an understanding of animal behavior. Examples are drawn from a wide range of species, but the focus is on applying concepts to understand the behavior and welfare of livestock.
Prerequisite: sophomore or junior standing.

ANS 3043 Growth and Development of Farm Animals 3 Credits
Grading Scheme: Letter Grade
An integration of the physiological, genetic, and nutritional bases of animal growth, development, and body composition with application to livestock production.
Prerequisite: BSC 2010 and BSC 2010L and BSC 2011 and BSC 2011L and ANS3006C or equivalents and AL major.

ANS 3079L Relationship of Form to Function in Horses 2 Credits
Grading Scheme: Letter Grade
Principles of conformation and performance evaluation of horses. Studies the anatomy, physiology, and dynamics of the horse as it affects athletic potential and performance.

ANS 3216 Introduction to Equine Science 3 Credits
Grading Scheme: Letter Grade
For those with an interest in equine sciences but with limited equine experience. Principles of equine selection, care, and utilization.

ANS 3217C Equine Health Management 2 Credits
Grading Scheme: Letter Grade
Principles and practices for planning, implementing, and maintaining equine herd health.
Prerequisite: ANS 3006 and AL-equine major.

ANS 3239L Techniques in Equine Science 2 Credits
Grading Scheme: Letter Grade
Introduces the knowledge, horseback, and management skills required for proper daily horse care and conditioning. Designed for those seeking employment requiring basic horse care skills and for novice horse owners.
Prerequisite: ANS 3216 and AL major.

ANS 3246L Beef Production Practicum 2 Credits
Grading Scheme: Letter Grade
Participate in beef cattle production systems under close supervision of faculty and staff; gain knowledge of best management practices regarding cattle handling, tractor, and equipment use, as well as cattle hauling by participating in experiential learning opportunities.
Prerequisite: sophomore or junior standing;
Corequisite: ANS 4243.

ANS 3250L Dairy Cattle Practicum 2 Credits
Grading Scheme: Letter Grade
Practical application of the principles of biology and management of dairy cattle. Topics include milking procedures, behavior, cattle handling, records, and computer applications in dairy production; body condition, lameness and hygiene scoring; dairy farm evaluation; on-farm practica and field trips.
Corequisite: ANS 3251.

ANS 3251 Biology and Management of Dairy Cattle 2 Credits
Grading Scheme: Letter Grade
Biology of dairy cattle and the interrelationship between biology and management. Topics include anatomy and physiology, nutrition, reproduction, genetics, behavior, diseases, dairy products, housing, management, economics, and the environmental impact of dairy production.

ANS 3319C Reproductive Physiology and Endocrinology in Domestic Animals 4 Credits
Grading Scheme: Letter Grade
Principles of reproduction in avian and mammalian farm animals including factors related to the estrous cycle, pregnancy, lactation, semen-production, artificial insemination, pregnancy diagnosis, and environmental factors affecting reproduction.
Prerequisite: ANS 3006 and BSC 2010 and BSC 2010L or equivalents.

ANS 3384C Genetics of Domestic Animals 3 Credits
Grading Scheme: Letter Grade
Basic principles of Mendelian, population, and quantitative genetics as applied to improvement of domestic animals. Selection, inbreeding, and crossbreeding strategies for genetic improvement of livestock.
Prerequisite: ANS 3006 and BSC 2011 and BSC 2011L or equivalents.

ANS 3404C Food Animal Nutrition and Feeding 3 Credits
Grading Scheme: Letter Grade
Studies the basic nutrient requirements of food animals, primarily beef cattle and swine, at specific stages of growth, production, and reproduction; and how scientific methods and experimentation are applied to animal nutrition.
Prerequisite: ANS 3440.

ANS 3405 Equine Nutrition and Feeding Management 2 Credits
Grading Scheme: Letter Grade
The influence of growth, reproduction, and work on the nutrient requirements of horses and the application of that information to the planning of life cycle feeding programs.
Prerequisite: ANS 3440.

ANS 3440 Principles of Animal Nutrition 4 Credits
Grading Scheme: Letter Grade
The nutrients required by animals, their functions interrelationships, and processes of utilization; feedstuff composition and their use in diet and ration formulation.
Prerequisite: CHM 2045 and CHM 2045L, or equivalent.

ANS 3613L Livestock and Meat Evaluation 2 Credits
Grading Scheme: Letter Grade
Basic principles of livestock evaluation, grading, and pricing of meat animals, carcasses and meat cuts.
Prerequisite: ANS 3006.

ANS 3634C Meats 3 Credits
Grading Scheme: Letter Grade
Integrated studies of the science and technology involved in the utilization of meat animals for food with focus on animal growth, carcass cutability, wholesomeness, palatability, and merchandising of red meat.

ANS 3934 Careers in the Livestock Industry 2 Credits
Grading Scheme: Letter Grade
Careers in the livestock industry. Interactive exposure to employment opportunities in the animal sciences.

ANS 4212L Techniques in Farrier Science 1-2 Credits
Grading Scheme: Letter Grade
How to evaluate and to trim the horse's hoof and to develop a working knowledge of corrective farrier techniques.

ANS 4218L Horse Psychology and Training 3 Credits
Grading Scheme: Letter Grade
Horse behavior, instinct and senses as they relate to training. Principles of training the young foal; ground work, liberty training, and starting the young yearling under saddle; and principles of performance training.

ANS 4231 Practicum in Horse Management and Training Technique 1 Credit
Grading Scheme: Letter Grade
Practicum in horse management and training technique

ANS 4234 Horse Enterprise Management 2 Credits
Grading Scheme: Letter Grade
Management principles essential to the planning and operation of commercial horse enterprises.
Prerequisite: AEB 3133 and AGR 4231C and ANS 3217C and ANS 3319C and ANS 3384C and ANS 3405 and ANS 3440.

ANS 4241L Intermediate Horse Training 2 Credits
Grading Scheme: Letter Grade
Continue the training of a recently started under-saddled horse, exhibit horse to potential buyers, and produce annual sealed bid sale.
Prerequisite: AEB 3133 and AGR 4231C and ANS 3217C and ANS 3319C and ANS 3384C and ANS 3405 and ANS 3440.

ANS 4243 Beef Cow-Calf Management 5 Credits
Grading Scheme: Letter Grade
Development and implementation of management programs for commercial cow-calf and purebred beef cattle enterprises.
Prerequisite: AEB 3133 and AGR 4231C and ANS 3319C and ANS 3384C and ANS 3404C and ANS 3440.

ANS 4245C Beef Background and Feedlot Management 2 Credits
Grading Scheme: Letter Grade
Management, marketing, and utilization of beef cattle after weaning. Spring break field trip required.
Prerequisite: AEB 3133 and AGR 4231C and ANS 3440 and ANS 3404C and ANS 3613L and ANS 3634C.

ANS 4318C Equine Reproductive Management 3 Credits
Grading Scheme: Letter Grade
Equine reproduction to include anatomy, the estrous cycle, hormones and pharmacologic manipulation, gametogenesis, embryonic and fetal development, parturition, foal care, assisted technologies, and management strategies.
Prerequisite: ANS 3319C.

ANS 4320C Applied Ruminant Reproductive Management 4 Credits
Grading Scheme: Letter Grade
In-depth assessment and application of bovine reproductive management practices that affect the efficiency of reproduction including managerial, physiological, biological, and economical.
Prerequisite: ANS 3319C.

ANS 4382 Equine Genetics 2 Credits
Grading Scheme: Letter Grade
Examines the underlying mechanisms and inheritance of a number of traits in the horse; includes the impact of domestication on the genome, relationships between breeds, coat color, genetic disease and complex traits of performance and behavior.
Prerequisite: ANS 3384C.

ANS 4388 Canine and Feline Genetics 3 Credits
Grading Scheme: Letter Grade
Lectures, seminars, and lab exercises on application of genetic principles to canine and feline characteristics provide an in-depth understanding of how these traits are inherited and analyzed. Information on new genomic technologies and their impact on studying specific traits, including coat color and genetic disorders, are discussed.
Prerequisite: ANS 3384C or AGR 3303 or PCB 3063 or equivalent.

ANS 4389L Molecular Techniques in Domestic Animal Genetics 2 Credits
Grading Scheme: Letter Grade
Studies the principles of basic domestic animal molecular biology techniques and provides hands-on experience through laboratory exercises.
Prerequisite: ANS 3384C.

ANS 4604C Live Animal Evaluation 2 Credits
Grading Scheme: Letter Grade
Instruction of live animal selection and evaluation, relative to improving the efficiency of meat and animal production.

ANS 4605 Animal and Products Evaluation 1 Credit
Grading Scheme: Letter Grade
Intensive training in animal and animal products evaluation.
Prerequisite: instructor permission.

ANS 4623C Pork Production 3 Credits
Grading Scheme: Letter Grade
Principles of modern pork production, including all aspects of swine production management systems (breeding systems, disease control, applied economics, housing, marketing, pork quality, and nutrition in a systems approach), relative to the US/Global pork supply.
Prerequisite: ANS 3440 and ANS 3319C and (ANS 3613L or ANS 4604C).

ANS 4635C Meat Processing 3 Credits
Grading Scheme: Letter Grade
Basic principles of the use of muscle as food, process technology, meat inspection, regulations, quality control procedures, and marketing aspects.
Prerequisite: ANS 3006 or FOS 3042.

ANS 4701 Physiology of the Mammary Gland and Lactation 2 Credits
Grading Scheme: Letter Grade
Insight into the endocrinology and physiology of the defining characteristics of mammals: the mammary gland and lactation, focusing on the anatomy and development of the mammary gland with an overview of the biochemical, cellular and molecular processes controlling lactation emphasizing on livestock species.
Prerequisite: BSC 2011 and BSC 2011L and ANS 3319C and AG senior.

ANS 4900 Supervised Extension Experience in Animal Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in animal sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

ANS 4905 Problems in Animal Science 1-3 Credits
Grading Scheme: Letter Grade
Qualified students are assigned a problem involving care and management of livestock or the investigation of a current topic in animal science.
Prerequisite: instructor permission.

ANS 4911 Supervised Research in Animal Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in animal sciences under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

ANS 4915 Honors Thesis Research in Animal Sciences 0-3 Credits
Grading Scheme: S/U
Independent research in animal sciences leading to an honors thesis, mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

ANS 4931 Senior Seminar 1 Credit
Grading Scheme: Letter Grade
Oral presentation and papers on issues facing the livestock industry.
Prerequisite: AL senior.

ANS 4932 Special Topics in Animal Sciences 1-3 Credits
Grading Scheme: Letter Grade
Special topics in Animal Sciences.
Prerequisite: Sophomore standing or higher.

ANS 4941 Full-Time Practical Work Experience in Animal Science 2-8 Credits
Grading Scheme: S/U
Credit is earned on the basis of one hour per month of employment. (S-U)
Prerequisite: prior arrangement with advisor.

ATE 2511 Companion Animal Biology and Management 3 Credits
Grading Scheme: Letter Grade
Principles and practices of proper selection, care, nutrition, genetics, reproduction, and training of companion animals, with emphasis on dogs, cats, and selected bird species.

VME 4103 Livestock Health/Disease Prevention 2 Credits
Grading Scheme: Letter Grade
The principal diseases of livestock and practical methods for their prevention and control.
Prerequisite: instructor permission.

Anthropology

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AFS 2002 The African Experience: An Introduction to African Studies 3 Credits
Grading Scheme: Letter Grade
Introductory study of African society and culture that examines the richness, diversity, and time-depth of African civilizations. (S and N)
Attributes: General Education - International, General Education - Social Science

ANT 2000 General Anthropology 3 Credits
Grading Scheme: Letter Grade
Introduces the four subfields of anthropology (sociocultural, biological, linguistic and archaeology) through analyses of the cultural, social and biological dimensions of human variation. Appropriate first course for students considering major or minor in anthropology as well as non-majors fulfilling general education requirement. (S)
Attributes: General Education - Social Science

ANT 2140 Introduction to World Archaeology 3 Credits
Grading Scheme: Letter Grade
The global study of human culture from its origins to the present through the recovery, description and analysis of archaeological remains.

ANT 2149 Lost Tribes and Sunken Continents 3 Credits
Grading Scheme: Letter Grade
Examines the claims of popular writers in archaeology that mysterious archaeological sites, statues, etc. were influenced by outer space visitors. Problems of diffusion: discussed include Stonehenge, pyramids, Easter Island, Maya spaceships, Atlantis and Mu, Nazca Lines and other archaeological mysteries. (H)
Attributes: General Education - Humanities

ANT 2301 Human Sexuality and Culture 3 Credits
Grading Scheme: Letter Grade
Examines cultural, biological, and archaeological aspects of human sexuality through time and space, while evaluating sexuality ideas to societal discourse. Investigates personal and cross-cultural views on sexuality, presenting gender identity, sexual orientation, relationships, and sexual ethics. Appropriate for those seeking an integrative approach to human sexuality. (S and D) (WR)
Attributes: General Education - Diversity, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ANT 2402 Anthropology of Sustainability 3 Credits
Grading Scheme: Letter Grade
Application of the sustainability concept to the study of human interactions with the biophysical environment across space and time. Focuses on human perceptions of and interactions with their biotic surroundings and the myriad linkages between biological, cultural and linguistic diversity.

ANT 2410 Cultural Anthropology 3 Credits
Grading Scheme: Letter Grade
The nature of culture. The content of cultures; languages, subsistence, economic structures, art and religion in human societies. The integration of culture. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

ANT 2700 Introduction to Applied Anthropology 3 Credits
Grading Scheme: Letter Grade
The utility and application of anthropological theories, methods and knowledge for the solution of specific human problems, including discrimination, hunger, disease and underdevelopment. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

ANT 3141 Development of World Civilization 3 Credits
Grading Scheme: Letter Grade
Discussion of archeological evidence for the development of civilization in its regional variants from the earliest beginning to the dawn of written history. Analyzes causes of cultural development in Old and New World Centers. (H and N)
Attributes: General Education - Humanities, General Education - International

ANT 3153 North American Archaeology 3 Credits
Grading Scheme: Letter Grade
Archaeological materials relating to prehistoric North American cultures. The origins of the North American Indian, Historic Indian and colonial materials. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

ANT 3162 Aztec Civilization 3 Credits
Grading Scheme: Letter Grade
Detailed examination of Aztec culture and society at 1500 AD from ethnohistorical and archaeological evidence, including family life; social, political and economic organization; warfare; religion; and relationships with neighboring peoples. (H and N)
Attributes: General Education - Humanities, General Education - International

ANT 3164 The Inca and Their Ancestors 3 Credits
Grading Scheme: Letter Grade
Evolution of the Inca Empire is traced back archaeologically through earlier Andean states and societies to the beginning of native civilization. (H and N)
Attributes: General Education - Humanities, General Education - International

ANT 3181 Anthropological Museology 3 Credits
Grading Scheme: Letter Grade
The history and purpose of anthropological museums in the formation of the discipline and the modern role of the museum in both anthropological education and research.

ANT 3186 Introduction to Zooarchaeology 3 Credits
Grading Scheme: Letter Grade
Introduces the identification, analysis and interpretation of animal remains from archaeological sites. Methods of quantification and skeletal measurements to understand technology and human behavior are addressed. Topics include identification of subsistence patterns, coastal economies, animal domestication, taphonomy, environmental inferences from faunal remains and historical use of subsistence resources.
Prerequisite: one course in archaeology.

ANT 3241 Anthropology of Religion 3 Credits
Grading Scheme: Letter Grade
Cross-cultural survey of beliefs and practices dealing with the supernatural, magic, and religion. Conceptualization of the supernatural. Sacred specialists, their function, and social position. Theories of comparative religion in light of anthropological data. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

ANT 3302 Sex Roles: a Cross-Cultural Perspective 3 Credits
Grading Scheme: Letter Grade
Anthropological perspective on division of labor by sex in different world societies. Variation in sex roles in economic, religious, political domains. Socialization and the life cycle. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

ANT 3364 Peoples and Cultures of China 3 Credits
Grading Scheme: Letter Grade
A comprehensive introduction to the diversity and change of Chinese culture and society based on ethnographic studies, theoretical analysis, and historical survey by Western as well as Chinese scholars. (S and N) (WR)
Attributes: General Education - International, General Education - Social Science, Satisfies 2000 Words of Writing Requirement

ANT 3390 Visual Anthropology 3 Credits
Grading Scheme: Letter Grade
Uses photography and film as tools and products of social science. Ways of describing, analyzing and presenting behavior and cultural ideas through visual means. Projects and laboratory work with visual anthropology. (WR)
Prerequisite: basic knowledge of photography or instructor permission.
Attributes: Satisfies 6000 Words of Writing Requirement

ANT 3420 Consumer Culture 3 Credits
Grading Scheme: Letter Grade
Examination of the cultural bases for the consumption of commodities in modern society, employing anthropological concepts and social science methods. Primary emphasis is on the social relationships enacted between people and the things they live with. (S)
Prerequisite: sophomore standing or higher.
Attributes: General Education - Social Science

ANT 3451 Race and Racism 3 Credits
Grading Scheme: Letter Grade
Survey of the race concept from the perspectives of cultural and biological anthropology. Examines patterns of human biological variation, traces history of race concept and explores experiences of racism in cross-cultural perspective. (S and D) (WR)
Attributes: General Education - Diversity, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ANT 3467 Food and Culture 3 Credits
Grading Scheme: Letter Grade
The role of food in human culture through time and in different geographical settings. Among topics considered are the biological basis of human diet and how it differs from other primates; how food habits develop and change as a result of cultural interaction; and the ritual and religious uses of food. Diets of traditional cultures and the effects of modernization on diet and health are examined.

ANT 3478 Global Health Culture 3 Credits
Grading Scheme: Letter Grade
Examines the ways in which diverse societies in the United States and abroad construct illness and health experiences, balance healing traditions with multiple forms of medical practice and integrate the human experiences of illness, recovery and death with the technical world of biomedicine.
Prerequisite: sophomore standing or higher.
Attributes: General Education - International, General Education - Social Science

ANT 3514C Introduction to Biological Anthropology 4 Credits
Grading Scheme: Letter Grade
Introduces the subfield of anthropology that focuses on the natural history of humankind. Through lecture and laboratory, the course surveys a range of materials that focus on the diversity of the Order Primates with emphasis on human and primate variation, adaptation and evolution. (B)
Attributes: General Education - Biological Science

ANT 3515 Human Evolutionary Anatomy 3 Credits
Grading Scheme: Letter Grade
Survey of human anatomy from evolutionary and embryological perspectives. The phylogenetic and functional basis for human form. Anatomical principles underlying developmental and functional disorders are explored through clinical and comparative examples.
Prerequisite: ANT 3514C or (BSC 2010 and BSC 2011) or PCB 4674.

ANT 3520 Skeleton Keys: Forensic Identification 3 Credits
Grading Scheme: Letter Grade
Survey of forensic anthropology, an applied field of biological anthropology, focusing the wider scope of skeletal biology on problems of medicolegal significance, primarily in determining personal identity and cause of death from human remains.

ANT 3555 The Primates 3 Credits
Grading Scheme: Letter Grade

ANT 3620 Language and Culture 3 Credits
Grading Scheme: Letter Grade
The role of speech in individual, social and cultural settings. Linguistic basis of thought and perception. Mythological studies and analysis. Bilingualism, biculturalism and minority language politics in current perspective. (S and N) (WR)
Attributes: General Education - International, General Education - Social Science, Satisfies 4000 Words of Writing Requirement

ANT 3703 Business Anthropology 3 Credits
Grading Scheme: Letter Grade
How to get a field-specific job: writing resumes, job interviews, and social science methods and their applications. Provides a general overview of the business anthropology field.

ANT 3860 Writing in Anthropology 3 Credits
Grading Scheme: Letter Grade
Professional writing in the discipline of anthropology. (C) (WR)
Prerequisite: Junior standing or higher in anthropology.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ANT 3930 Junior Topics Class in Anthropology 3 Credits
Grading Scheme: Letter Grade
This course is designed for junior level students to explore special topics classes in the various subfields of anthropology.

ANT 4006 Human Rights and Culture 3 Credits
Grading Scheme: Letter Grade
Examines the nature of human rights cross-culturally, focusing on the history of the concept, universalism vs. particularism, religion, gender, race, regionalism, and modern human rights conventions.

ANT 4034 History of Anthropological Theory 3 Credits
Grading Scheme: Letter Grade
The history and development of anthropological theory. Methods in anthropological research. Directed reading of major theoretical publications. (S) (WR)
Prerequisite: one cultural anthropology course or instructor permission.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ANT 4110 Archaeological Theory 3 Credits
Grading Scheme: Letter Grade
Survey of the theoretical and methodological tenets of anthropological archaeology; critical review of archaeological theories, past and present; relation of archaeology to anthropology. (S)
Prerequisite: one course in archeology and/or anthropology, or instructor permission.
Attributes: General Education - Social Science

ANT 4112 Ideology and Symbolic Approaches in Archaeology 3 Credits
Grading Scheme: Letter Grade
Critically examines the development of thought in archaeology that goes beyond a materialist interpretation of culture. This seminar explores questions of causality and the role of mind and culture as a mediator between the environment and political, economic and social structures.
Prerequisite: instructor permission.

ANT 4113 Experimental Archaeology 3 Credits
Grading Scheme: Letter Grade
Introduces the principles and applications of experimental archaeology, drawing on a broad range of case studies that illustrate the numerous experimental methods that archaeologists have used to solve analytic or interpretive problems.
Prerequisite: instructor permission.

ANT 4114 Principles of Archaeology 3 Credits
Grading Scheme: Letter Grade
Basic principles of archaeological science. Field and laboratory techniques (site survey, mapping, excavation, artifact analysis, dating). Foundational methods to interpret archaeological data to understand cultural and natural processes in the past. Legal and ethical issues of heritage management and stewardship of the archaeological record. (WR)
Prerequisite: ANT 2140 or ANT 3141.
Attributes: Satisfies 6000 Words of Writing Requirement

ANT 4147C Environmental Archaeology 3 Credits
Grading Scheme: Letter Grade
Theory and case studies in environmental archaeology, integrating zooarchaeology, archaeobotany and geoarchaeology, are used to interpret past human interactions with the natural environment.
Prerequisite: instructor permission.

ANT 4168 Maya Civilization 3 Credits
Grading Scheme: Letter Grade
In-depth study of the pre-Hispanic Maya civilization based on archaeological and epigraphic information. Includes methods for constructing knowledge of this civilization and discussion of current controversies.
Prerequisite: ANT 2140 or ANT 3141 or instructor permission.

ANT 4180L Laboratory Training in Archaeology 1-3 Credits
Grading Scheme: Letter Grade
Processing of data recovered in field excavations; includes cleaning, identification, cataloguing, classification, drawing, analysis, responsibilities of data reporting.
Prerequisite: an introductory-level archeology course.

ANT 4193 Ethnoarchaeology 3 Credits
Grading Scheme: Letter Grade
A seminar that draws on case studies to examine the theoretical and methodological approaches to enthnoarchaeology. Students will apply these approaches in field exercises.
Prerequisite: instructor permission.

ANT 4194 A Critical Archaeology of Time 3 Credits
Grading Scheme: Letter Grade
Seminar that draws on case studies to explore problems at the intersection of measured time in archaeology, and the practice and reckoning of time in mostly non-Western societies.
Prerequisite: instructor permission.

ANT 4213 Global Humankind 3 Credits
Grading Scheme: Letter Grade
Advanced analysis of experiences and strategies for tackling classic dilemmas of the human condition in interconnected cultural works. Examination of how basic lifestyle decisions and actions are experienced locally and their global consequences. Anthropological theories and concepts are discussed in tandem with case studies from around the world.
Prerequisite: one 2000 or 3000 level ANT course or instructor permission.

ANT 4266 Economic Anthropology 3 Credits
Grading Scheme: Letter Grade
A consideration of economic philosophies and the behavioral bases of formal economic theories. Cross-cultural studies of production, distribution and consumption, money and the acquisition of goods. The latest materials from cultural ecology, Marxism, formalism, substantivism and discourse centered approaches are reviewed. (S) (WR)
Prerequisite: one anthropology course or instructor permission.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ANT 4273 Anthropology of Law 3 Credits
Grading Scheme: Letter Grade
An examination of legal systems cross-culturally with a focus on the interrelationship of law with culture, society, economics and politics.

ANT 4274 Political Anthropology 3 Credits
Grading Scheme: Letter Grade
The problem of identifying political behavior. Natural leadership in bands, tribes and small groups. Acephalous societies and republican structures. Kingship and early despotic states. Theories of bureaucracy. (S)
Prerequisite: an introductory course in the social sciences, or instructor permission.
Attributes: General Education - Social Science

ANT 4323 People of Mexico and Central America 3 Credits
Grading Scheme: Letter Grade
The settlement and early cultures of the area with an emphasis on the rise of the major culture centers. The impact of European civilization and surviving Indians. (S and N) (WR)
Attributes: General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ANT 4336 The Peoples of Brazil 3 Credits
Grading Scheme: Letter Grade
Ethnology of Brazil; historical, geographic, and socioeconomic material is covered and representative monographs from the various regions of Brazil are read. The contribution of the Indian, Portuguese and African to modern Brazilian culture. (S and N) (WR)
Attributes: General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ANT 4340 Anthropology of the Caribbean 3 Credits
Grading Scheme: Letter Grade
Investigation into cultural contact that has taken place in the Caribbean and results of that contact in terms of peoples and sociocultural units produced and processes of cultural change involved. (S and N)
Attributes: General Education - International, General Education - Social Science

ANT 4352 Peoples of Africa 3 Credits
Grading Scheme: Letter Grade
An anthropological survey of the culture, history and ethnographic background of the peoples of Africa. A basis for appreciation of current problems of acculturation, nationalism, and cultural survival and change among African peoples. (S and N) (WR)
Attributes: General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ANT 4354 The Anthropology of Modern Africa 3 Credits
Grading Scheme: Letter Grade
Study of continuity and change in contemporary African societies with special reference to cultural and ethnic factors in modern nations. (S and N) (WR)
Attributes: General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ANT 4366 Family, Gender and Population in China 3 Credits
Grading Scheme: Letter Grade
This seminar examines the processes by which the family system, gender relations, and population configuration interact with each other to become powerful forces in shaping contemporary China's political, social and economic conditions. (S and N)
Prerequisite: instructor permission.
Attributes: General Education - International, General Education - Social Science

ANT 4392 Peoples of the Artic 3 Credits
Grading Scheme: Letter Grade
An anthropological survey of the culture, history and ethnographic background of the circumpolar Artic. An investigation of the problems of acculturation, human ecology, cultural survival and self-determination of Northern Indigenous Peoples.
Prerequisite: ANT 2140.

ANT 4403 Environment and Cultural Behavior 3 Credits
Grading Scheme: Letter Grade
The interaction of people and their environment as mediated by cultural institutions. Levels of socioeconomic adaptation in hunting and gathering, pastoral and agricultural societies. Warfare and ritual as ecological mechanisms. (S) (WR)
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ANT 4462 Culture and Medicine 3 Credits
Grading Scheme: Letter Grade
A survey of the field of medical anthropology and its interdisciplinary context. The course examines contemporary approaches and the development of an applied field concerned with human sickness and healing.

ANT 4468 Health and Disease in Human Evolution 3 Credits
Grading Scheme: Letter Grade
Review of pathology as evidenced in fossil and archaeological records. Interpretation of disease in a biocultural context.
Prerequisite: ANT 3514C, or instructor permission.

ANT 4495 Ethnographic Methods 3 Credits
Grading Scheme: Letter Grade
Introduces the basic theoretical, methodological, ethical and practical concerns in the making of ethnography. In addition to readings and discussions, students will conduct a micro-project to gain hands-on experience in ethnography. (S)
Prerequisite: ANT 2000.
Attributes: General Education - Social Science

ANT 4525 Human Osteology and Osteometry 3 Credits
Grading Scheme: Letter Grade
Human skeletal identification for the physical anthropologist and archaeologist. Techniques for estimated age at death, race and sex from human skeletal remains. The measurement of human skeleton for comparative purposes. (B)
Prerequisite: ANT 3514C and instructor permission.
Attributes: General Education - Biological Science

ANT 4530 Seminar in Molecular Anthropology 3 Credits
Grading Scheme: Letter Grade
Course examines current applications of molecular data to questions of human evolution and genetics, based on most recent journal articles.
Prerequisite: BSC 2011 or instructor permission.

ANT 4531 Molecular Genetics of Disease 3 Credits
Grading Scheme: Letter Grade
Examines molecular genetics of human disease. Discusses a range of diseases from single-gene recessive defects to complex diseases.
Prerequisite: BSC 2011 or instructor permission.

ANT 4552 Primate Behavior 3 Credits
Grading Scheme: Letter Grade
Deals with the taxonomy, distribution and ecology of primates. The range of primate behavior for each major taxonomic group is explored. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

ANT 4554C Primate Evolution 3 Credits
Grading Scheme: Letter Grade
Survey of primate evolution from Paleocene through Miocene epochs. Methods of paleontological inference. Emphasis on problems of taxonomy, phylogeny, biogeography and functional morphology in the fossil record.
Prerequisite: ANT 3514C or instructor permission.

ANT 4586 Human Evolution 3 Credits
Grading Scheme: Letter Grade
This course surveys the evidence for the evolution of humankind. Emphasis is placed on the late Miocene to Pleistocene human fossil record and its interpretation. Basic principles of geology, systematics, evolutionary theory, functional morphology, and phylogenetic reconstruction are introduced and used to aid in understanding the human fossil and archaeological records. (B)
Prerequisite: ANT 3514C or the equivalent.
Attributes: General Education - Biological Science

ANT 4740 Introduction to Forensic Science 3 Credits
Grading Scheme: Letter Grade
Basic concepts and topics in forensic science, medicine and criminalistics. Also provides basic understanding of the fundamental concepts of scientific methodology.

ANT 4824 Field Sessions in Archaeology 6 Credits
Grading Scheme: Letter Grade
Excavation of archaeological sites, recording of data, laboratory handling and analysis of specimens, and study of the theoretical principles which underlie field methods and artifact analysis.
Prerequisite: 6 credits of anthropology or instructor permission.

ANT 4851 Digital Anthropology 3 Credits
Grading Scheme: Letter Grade
Investigation into how our emerging digital environment is affecting humans and societies. The study of digital technologies in comparative cultural contexts. Analysis of digital technology as a form of material culture. Introduction to theoretical perspectives on digital phenomena and the applications of these technologies in anthropology and other disciplines.
Prerequisite: one 2000 or 3000 level ANT, LAS, or AFS course or instructor permission.

ANT 4905 Individual Work 1-5 Credits
Grading Scheme: Letter Grade
Individual, supervised research on a specific topic in anthropology.
Prerequisite: instructor permission.

ANT 4907 Research Projects in Anthropology 1-5 Credits
Grading Scheme: Letter Grade
For students undertaking directed research in supplementary or regular coursework or on special problems.
Prerequisite: instructor permission.

ANT 4911 Undergraduate Research in Anthropology 0-3 Credits
Grading Scheme: Letter Grade
Course provides firsthand, supervised research in Anthropology. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Anthropology.

ANT 4914 Department Honors in Anthropology 3 Credits
Grading Scheme: Letter Grade
Open to students meeting department honors criteria and normally taken in the senior year. Students will develop special interests and write an essay based upon this research.
Prerequisite: undergraduate coordinator permission.

ANT 4930 Special Topics in Anthropology 3-5 Credits
Grading Scheme: Letter Grade
Rotating content in anthropology.
Prerequisite: 10 credits in anthropology or instructor permission. With permission, can be repeated with change in content up to 9 credits.

ANT 4931 Capstone in Anthropology 3 Credits
Grading Scheme: Letter Grade
Capstone course for anthropology majors focusing on the integration of core knowledge from the subfields of anthropology and their application to historical and contemporary topics. Explores application of anthropological knowledge for both pre-professional development and non-professional careers.
Prerequisite: Senior standing in anthropology.

ANT 4956 Overseas Studies in Cultural Anthropology 3-9 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved UF study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

Applied Physiology and Kinesiology

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More Info (http://registrar.ufl.edu/soc)

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Courses

APK 2100C Applied Human Anatomy with Laboratory 4 Credits
Grading Scheme: Letter Grade
Study of general anatomy of the human body from a systematic approach. Understanding anatomical terminology, gross structures, and locations of different body structures are primary concerns. Cells, tissues and organs of the integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary and reproductive systems are emphasized. (B)
Attributes: General Education - Biological Science

APK 2105C Applied Human Physiology with Laboratory 4 Credits
Grading Scheme: Letter Grade
Introduces body functions at the cellular, tissue, organ and systems level with emphasis on the mechanisms of operation. Designed for students interested in pursuing study in the health professions. (B)
Prerequisite: sophomore standing or higher.
Attributes: General Education - Biological Science

APK 3110C Physiology of Exercise and Training 3 Credits
Grading Scheme: Letter Grade
Survey in exercise physiology which provides an overview of the acute and chronic responses to exercise. Particular attention is placed on understanding muscle bioenergetics and metabolism as well as the cardiopulmonary responses to exercise. Special topics include exercise testing, training technologies and exercise in hot and cold environments.
Prerequisite: APK 2105C with minimum grade of C; junior standing or above; HH-APK and HH-AT majors only.

APK 3113C Principles of Strength and Conditioning 3 Credits
Grading Scheme: Letter Grade
For individuals who are interested in becoming certified personal trainers (NSCA-PT) or certified strength and conditioning specialists (CSCS) through the National Strength and Conditioning Association.
Prerequisite: APK 2100C and APK 2105C with minimum grades of C.

APK 3163 Sport Nutrition 3 Credits
Grading Scheme: Letter Grade
Addresses the aspects of nutrition that are related to exercise performance. Emphasis is on bioenergetic systems, nutrient components, nutritional and body composition assessments, ergogenic aids and diet modifications for physically active individuals and athletes.
Prerequisite: HUN 2201 and APK 2105C.

APK 3200 Motor Learning 3 Credits
Grading Scheme: Letter Grade
Provides background for understanding, analyzing and teaching skills in sports and dance. Attention to specific aspects of psychomotor developments and theoretical models of skill acquisition.
Prerequisite: junior standing or higher and Applied Physiology and Kinesiology major.

APK 3220C Biomechanical Basis of Movement 3 Credits
Grading Scheme: Letter Grade
Fundamentals of kinematics and kinetics related to human movement. Basics of biomechanics applied to the concepts of injury prevention and performance improvement. Overview of various biomechanical data collection and analysis.
Prerequisite: junior or senior standing; APK 2100C and MAC 1140 with minimum grades of C; or PHY 2048 or PHY 2053 with minimum grade of C.

APK 3400 Introduction to Sport Psychology 3 Credits
Grading Scheme: Letter Grade
Provides an understanding of the science and practice of sport psychology from both a theoretical and applied perspective. The primary emphasis is on the educational and performance enhancement roles of the field with little discussion of clinical issues.
Prerequisite: junior or senior standing.

APK 3405 Exercise Psychology 3 Credits
Grading Scheme: Letter Grade
Introduces exercise psychology. Topics include the effects of exercise on psychological well-being, exercise adherence and intervention from both theoretical and applied perspectives.
Prerequisite: junior or senior standing.

APK 4050 Research Methods 3 Credits
Grading Scheme: Letter Grade
Provides an understanding of basic research methods and techniques used in applied physiology and kinesiology. Students will demonstrate their knowledge of the course materials by analyzing, interpreting and summarizing research writing in professional journals and by planning a research study.
Prerequisite: APK major with 3, 4, 6 or 7 classification.

APK 4101 Fundamentals of Skeletal Muscle 3 Credits
Grading Scheme: Letter Grade
Provides a comprehensive background of skeletal muscle properties, focusing on key aspects of function at the protein, cellular, and whole organ level. Major topics include muscle contraction and force generation, fuel sources and energy utilization, growth and development, and an introduction to pathology.
Prerequisite: APK 2105C with a minimum grade of B and junior standing or higher.

APK 4103C Kinetic Anatomy 3 Credits
Grading Scheme: Letter Grade
Provides in-depth coverage of musculoskeletal anatomy as a foundation for learning components of simple and complex motor tasks; emphasizes proper execution and analysis of joint movement and common exercises.
Prerequisite: APK 2100C and APK 3220C.

APK 4112 Advanced Exercise Physiology 3 Credits
Grading Scheme: Letter Grade
Provides a detailed understanding of acute and chronic responses to exercise. Particular attention is placed upon understanding the physiological responses to exercise at both a systems and cellular level. Emphasis is placed on muscle contractile properties, muscle bioenergetics and the endocrine responses to exercise.
Prerequisite: APK 3110C with minimum grade of C.

APK 4115 Neuromuscular Aspects of Exercise 3 Credits
Grading Scheme: Letter Grade
Provides an in-depth analysis of muscle structure and function; how muscles produce movement; adaptation of muscle to resistance training, endurance training and various manipulations used in rehabilitations; adaptation of muscle to disuse; and muscle responses to injury.
Prerequisite: APK 3110C with minimum grade of C.

APK 4120 Clinical Exercise Physiology 3 Credits
Grading Scheme: Letter Grade
Provides an understanding of recent advances in exercise physiology and exercise prescription for clinical populations. Particular attention is placed upon the study of acute and chronic responses to exercise in patients with cardiac, pulmonary, metabolic and musculoskeletal diseases.
Prerequisite: APK 3110C with minimum grade of C.

APK 4125C Physical Fitness Assessment and Exercise Prescription 3 Credits
Grading Scheme: Letter Grade
Techniques of assessing physical fitness using traditional and state of the art processes. Techniques of prescribing exercise programs based upon assessments of physical parameters. Supervised practical lab experiences in assessment and prescription in a clinical setting.
Prerequisite: APK 3110C with minimum grade of C and Health and Human Performance major.

APK 4144 Movement Neuroscience 3 Credits
Grading Scheme: Letter Grade
Covers both anatomical and physiological aspects of movement-related components of the nervous system from a functional perspective. Topics include: neuronal signaling; somatosensation; proprioception; nociception; vision and eye movements; audition; lower vs. upper motor neurons; cortical, basal ganglia and cerebellar regulation of movement; and posture.
Prerequisite: (APK 2100C and APK 2105C with minimum grades of C) and (sophomore standing or higher) and Applied Physiology and Kinesiology major.

APK 4912 Undergraduate Research 0-5 Credits
Grading Scheme: S/U
Provides APK students the opportunity for involvement in supervised research experiences. "Research" is operationally defined here as mentored, but self-directed work that enables students to explore an issue of interest to them and to communicate the results to others. (S-U)

APK 4940C Internship 12 Credits
Grading Scheme: S/U
Internship in applied physiology and kinesiology. (S-U)
Prerequisite: department permission.

APK 4943 Teaching Experience in APK 1 Credit
Grading Scheme: S/U
Experience teaching as an undergraduate assistant; responsibilities meet the needs of the particular course and instructor, including, but not limited to, giving short lectures, holding study/discussion sections, grading, and helping with exam/quiz/assignment preparation and proctoring. (S-U)
Prerequisite: instructor permission.

ATR 2010C Prevention and Care of Athletic Injuries 3 Credits
Grading Scheme: Letter Grade
Prevention of athletic injuries, including protective equipment, safe facilities and proper supervision of practice and contests. Recognition, referral and follow-up of injuries in athletics. Legal implications of athletic training.
Prerequisite: APK 2100C and Athletic Training major.

ATR 3102 Principles of Athletic Training 4 Credits
Grading Scheme: Letter Grade
Provides the student with knowledge of basic principles of athletic training, including prevention, recognition and treatment of athletic injuries. Addresses the proper application of protective equipment, bracing/wrapping/taping techniques utilized by athletic trainers and introduces emergency management skills appropriate for sport.
Prerequisite: admission to the athletic training specialization.

ATR 4112C Emergency Management of Athletic Trauma 3 Credits
Grading Scheme: Letter Grade
Learn to recognize, assess, treat, and refer traumatic injury and acute emergent illness.
Prerequisite: Athletic Training major.

ATR 4212C Athletic Injury Assessment: Upper Extremity 4 Credits
Grading Scheme: Letter Grade
Provides background information to conduct a thorough initial evaluation of upper extremity injuries commonly sustained by the physically active population.
Prerequisite: ATR 3102 with minimum grade of C and admission to the athletic training specialization.

ATR 4213C Athlete Injury Assessment: Lower Extremity 4 Credits
Grading Scheme: Letter Grade
Provides background information to conduct a thorough initial evaluation of lower extremity injuries commonly sustained by the physically active population.
Prerequisite: ATR 4212C with minimum grade of C.

ATR 4302C Therapeutic Modalities in Athletic Training 4 Credits
Grading Scheme: Letter Grade
Introduces physiological principles, concepts and operational procedures of contemporary therapeutic modalities as they relate to the care and treatment of athletic injuries.
Prerequisite: ATR 3102 with minimum grade of C and admission to the athletic training specialization.

ATR 4314C Rehabilitation Techniques in Athletic Training 4 Credits
Grading Scheme: Letter Grade
Introduces the concepts and principles of a comprehensive rehabilitation program including determination of therapeutic goals and objectives, selection of therapeutic exercises, methods of evaluating and recording rehabilitation progress, development of criteria for progress and return to competition and the physiological effects of trauma/wound healing and inactivity/immobilization.
Prerequisite: ATR 4302C with minimum grade of C.

ATR 4315 Functional Sport Conditioning 3 Credits
Grading Scheme: Letter Grade
Enhances knowledge in design and implementation of functional exercise techniques as it relates to injury rehabilitation. Nutritional considerations for the injured athlete and proper design of the pre and post event meal planning for optimal performance and recovery are also covered.
Prerequisite: ATR 4314C.

ATR 4432 Clinical Pathology and Pharmacology 3 Credits
Grading Scheme: Letter Grade
Provides a thorough understanding of injury, illness and/or disease of various body systems; addresses specific understanding of medical diagnostics, interventions (including pharmacology) and participation considerations for the athletic population.
Prerequisite: ATR 4822 with minimum grade of C.

ATR 4512 Athletic Training Administration 3 Credits
Grading Scheme: Letter Grade
In-depth background of the standards, policies and practices of organization, supervision and administration of athletic training programs.
Prerequisite: ATR 4832 with minimum grade of C; athletic training seniors only.

ATR 4812 Athletic Training Clinical Experience 1 4 Credits
Grading Scheme: Letter Grade
Provides the student with the opportunity necessary to grow both clinically and professionally within the field of athletic training through attendance at seminars, and the integration and synthesis of cognitive and psychomotor skills learned in previous semesters.
Prerequisite: ATR 3102 with minimum grade of C and admission to the athletic training specialization.

ATR 4822 Athletic Training Clinical Experience 2 4 Credits
Grading Scheme: Letter Grade
Provides the student with the opportunity necessary to grow both clinically and professionally within the field of athletic training through attendance at seminars, and the integration and synthesis of cognitive and psychomotor skills learned in previous semesters.
Prerequisite: ATR 4812 with minimum grade of C.

ATR 4832 Athletic Training Clinical Experience 3 4 Credits
Grading Scheme: Letter Grade
Provides the student with the opportunity necessary to grow both clinically and professionally within the field of athletic training through attendance at seminars, and the integration and synthesis of cognitive and psychomotor skills learned in previous semesters.
Prerequisite: ATR 4822 with minimum grade of C.

ATR 4842 Athletic Training Clinical Experience 4 4 Credits
Grading Scheme: Letter Grade
Provides the student with the opportunity necessary to grow both clinically and professionally within the field of athletic training through attendance at seminars, and the integration and synthesis of cognitive and psychomotor skills learned in previous semesters.
Prerequisite: ATR 4832 with minimum grade of C.

BSC 3096 Human Physiology 3 Credits
Grading Scheme: Letter Grade
Functioning of human tissues, organs and organ systems, emphasizing the physical, chemical and mechanistic bases of normal physiology and the integrated function of the human body. Also introduces pathophysiological changes associated with human diseases.
Prerequisite: (CHM 1031 or CHM 2046 or CHM 2047) and BSC 2011.

HLP 4933 Variable International Topics 1-6 Credits
Grading Scheme: Letter Grade
Provides the opportunity to study in a wide range of cultural settings.

PET 4905C Variable Topics in Exercise and Sport Sciences 1-5 Credits
Grading Scheme: Letter Grade
Offered upon request to meet students' special interests that are not adequately provided in other courses.
Prerequisite: department chair permission.

PET 4948C Practicum in Exercise and Sport Sciences 1-5 Credits
Grading Scheme: Letter Grade
Practical experience in such specialty areas as adult fitness programs, health clubs, exercise testing laboratories, clinical laboratories and athletic training rooms. May include senior thesis with oral defense.
Prerequisite: department chair permission.

SPM 4154 Administration of Sport and Physical Activity 3 Credits
Grading Scheme: Letter Grade
Managerial principles and techniques applicable to a variety of sport, physical education and fitness settings.
Prerequisite: MAN 3025 and SPM 2000 with minimum grades of C.

Arabic | Languages, Literatures, and Cultures

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More Info (http://registrar.ufl.edu/soc)

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Courses

ABT 3130 Arabic Literary Heritage 1 3 Credits
Grading Scheme: Letter Grade
A survey of classical Arabic literature in translation. Covers pre-Islamic poetry and early Islamic poetry, Omayyad, Abbasid and Andalusian literatures. All readings in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

ABT 3500 Arabic Culture 3 Credits
Grading Scheme: Letter Grade
Introduction to Arabic culture with special reference to art, literature, religion and society. Emphasis on Arab contributions to philosophy, medicine, mathematics and architecture. All readings in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

ABT 4131 The Qur'an as Literature 3 Credits
Grading Scheme: Letter Grade
Approaches the Qur'an from a literary standpoint by examining its history, structure, style, major themes, and impact on Arabic literature, Islamic thought, and Muslim culture.
Prerequisite: ARA 1131 or ABT 3500 or REL 2000 or REL 2362 or REL 4361 or senior standing.

ARA 1130 Beginning Arabic 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading, and writing.

ARA 1131 Beginning Arabic 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: ARA 1130 with minimum grade of C or the equivalent.

ARA 2220 Intermediate Arabic 1 4 Credits
Grading Scheme: Letter Grade
Continuation of the study of standard Arabic language. Develops reading, writing, listening and speaking skills and helps with comprehension of written and audio texts. Students can use their knowledge of the Arabic language to clearly express their personal views in a meaningful and well-structured language.
Prerequisite: ARA 1131 with minimum grade of C or the equivalent.

ARA 2221 Intermediate Arabic 2 4 Credits
Grading Scheme: Letter Grade
Continues the study of Arabic language at the intermediate level. Emphasizes developing reading comprehension, writing, listening and speaking, and vocabulary and grammar.
Prerequisite: ARA 1131 with minimum grade of C or the equivalent.

ARA 2240 Spoken Arabic 3 Credits
Grading Scheme: Letter Grade
Develops listening and conversational skills at an intermediate level of proficiency. Focuses on a middle variety of Arabic known as Educated Spoken Arabic that enables successful communication with educated Arab speakers from virtually any country in the Arab world.
Prerequisite: ARA 1131.

ARA 3241 Spoken Arabic 3 Credits
Grading Scheme: Letter Grade
Develops listening and conversational skills at an intermediate level of proficiency. Focuses on a middle variety of Arabic known as Educated Spoken Arabic that enables successful communication with educated Arab speakers from virtually any country in the Arab world.
Prerequisite: ARA 2221.

ARA 3410 Advanced Arabic 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: ARA 2221 with minimum grade of C or the equivalent.

ARA 3411 Advanced Arabic 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study.
Prerequisite: ARA 3410 with minimum grade of C or the equivalent.

ARA 3510 The Arab Woman 3 Credits
Grading Scheme: Letter Grade
Examines the role and status of Arab women in their respective societies; specifically examines the internal dynamic of Arab culture that influences the role of the Arab woman. (H and N OR S and N) (WR)
Attributes: General Education - Humanities, General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ARA 4400 Fourth Year Arabic 1 3 Credits
Grading Scheme: Letter Grade
Development to an advanced level of speaking, hearing, reading and writing of spoken and mass communication and literary Arabic. (H and N)
Prerequisite: ARA 3411 or the equivalent.
Attributes: General Education - Humanities, General Education - International

ARA 4401 Fourth Year Arabic 2 3 Credits
Grading Scheme: Letter Grade
Continuation of ARA 4400. Development of a more advanced level of speaking, hearing, reading and writing of spoken and mass communication and literary Arabic. (H and N)
Prerequisite: ARA 4400 or the equivalent.
Attributes: General Education - Humanities, General Education - International

ARA 4420 Arabic through the Texts 3 Credits
Grading Scheme: Letter Grade
For advanced students of Arabic. Teaches the more complex grammar, idiomatic expressions and sophisticated stylistic forms of the language. Required for the Arabic minor.
Prerequisite: ARA 3411 or the equivalent.

ARA 4822 Arabic Sociolinguistics 3 Credits
Grading Scheme: Letter Grade
Focus on the relationship between language and society in the Arab world. An examination of the different varieties of Arabic and the relation between linguistic variation and other social variables, such as ethnicity, religion, urbanization, social class, gender, power and ideology.
Prerequisite: ARA 1131 or LIN 3010.

ARA 4850 Structure of Standard Arabic 3 Credits
Grading Scheme: Letter Grade
Describes and analyzes the sound system, word structure, and sentence structure of Arabic.
Prerequisite: ARA 1131 or LIN 3010.

ARA 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course.
Prerequisite: instructor permission.

ARA 4930 Special Topics 3 Credits
Grading Scheme: Letter Grade
One of the core courses in the Middle Eastern languages and cultures major offered through interdisciplinary studies. Also useful for students in linguistics, religion, Arabic, Hebrew and Jewish studies.
Prerequisite: one year of Hebrew or equivalent, one year of Arabic or equivalent, LIN 3010 or equivalent, or instructor permission.

ARA 4956 Overseas Studies 1 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

Architecture

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Courses

ARC 1000 Architecture and Humanity 3 Credits
Grading Scheme: Letter Grade
Introduces the issues and opportunities derived through actively engaging the sustainable and ethical design of the environments in which we live: urban, landscape and architectural. (H)
Attributes: General Education - Humanities

ARC 1301 Architectural Design 1 4 Credits
Grading Scheme: Letter Grade
Introduces interfacing communication skills with design thinking. Emphasizes awareness and understanding of basic organization ideas in design.
Prerequisite: (architecture or interior design or landscape architecture major) or college advising center permission.

ARC 1302 Architectural Design 2 4 Credits
Grading Scheme: Letter Grade
An analysis course that uses the study of architectural precedent as a foundation for the development of communication and design skills.
Prerequisite: ARC 1301.

ARC 1701 Architectural History 1 3 Credits
Grading Scheme: Letter Grade
General survey of social, political, and cultural factors that have generated art and architecture. (H and N) (WR)
Prerequisite: architecture major.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

ARC 1702 Architectural History 2 3 Credits
Grading Scheme: Letter Grade
A survey of the history of architecture from 1400 to 1850. Lectures examine the effects of social, political, material, technological and cultural forces on the design and construction of the built environment and explore the role of the architect in civil society. Emphasizes the theoretical positions of the architects and architectural schools. (H and N)
Prerequisite: architecture major.
Corequisite: ARC 1301 or ARC 4072.
Attributes: General Education - Humanities, General Education - International

ARC 1720 Survey of Architecture History 3 Credits
Grading Scheme: Letter Grade
A survey of monumental buildings and their embodied architectural intentions from the pre-historical ages to the current age. Demonstrating interactive relationships between form and idea in architecture throughout history across cultural and regional differences. (H and N) (WR)
Prerequisite: non-architecture majors only.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

ARC 2180 Introduction to Digital Architecture 3 Credits
Grading Scheme: Letter Grade
Introduces computer-aided design programs currently utilized by professional practices.
Prerequisite: architecture majors only;
Corequisite: ARC 2303 or ARC 4071.

ARC 2201 Theory of Architecture 1 3 Credits
Grading Scheme: Letter Grade
Critical study of the processes that influence the form and image of architecture with an emphasis on an understanding of ordering principles and concepts of how space and architecture systems are interrelated. (H)
Prerequisite: architecture major.
Corequisite: ARC 2303 or ARC 4071.
Attributes: General Education - Humanities

ARC 2303 Architectural Design 3 5 Credits
Grading Scheme: Letter Grade
Studio course explores the influence of history and culture on design decision-making.
Prerequisite: ARC 1302.

ARC 2304 Architectural Design 4 5 Credits
Grading Scheme: Letter Grade
Explores context as a generator of architectural design ideas. Contemporary cultural influences also are examined and incorporated in the design process.
Prerequisite: ARC 2303.

ARC 2461 Materials and Methods of Construction 1 3 Credits
Grading Scheme: Letter Grade
The nature of materials used in construction. Criteria for evaluation and selection related to design decision-making.
Prerequisite: architecture major.
Corequisite: ARC 2304.

ARC 3181 Advanced Topics in Digital Architecture 3 Credits
Grading Scheme: Letter Grade
Continued investigation of computer-aided design programs currently utilized by professional practices.
Prerequisite: ARC 2180.

ARC 3291 Special Studies in Architecture 1-6 Credits
Grading Scheme: Letter Grade
Special studies in architecture adjusted to individual needs of undergraduate students.
Prerequisite: completion of lower division in architecture and recommendation of advisor.

ARC 3320 Architectural Design 5 6 Credits
Grading Scheme: Letter Grade
Architectural design and its relationship to regional contectural influences are investigated through a range of projects which vary in scale and complexity.
Prerequisite: ARC 2304.

ARC 3321 Architectural Design 6 6 Credits
Grading Scheme: Letter Grade
Architectural design within a large scale urban context. Theory, methodology and evolution of urban form in response to social, cultural, economic and technological forces.
Prerequisite: ARC 3320.

ARC 3463 Materials and Methods of Construction 2 3 Credits
Grading Scheme: Letter Grade
Methods of assembling and selecting materials; detailed systems of construction are investigated.
Corequisite: ARC 4323 or ARC 4073.

ARC 3503 Introduction to Architectural Structures 3 Credits
Grading Scheme: Letter Grade
A foundation course that investigates principles of structural behavior in withstanding gravity and lateral forces; consider structural layout, load distribution and preliminary design techniques; and examines contemporary structural systems through case studies emphasizing trussed, framed, funicular and shell structural systems.
Prerequisite: PHY 2004 or PHY 2053;
Corequisite: ARC 3320 or ARC 4073.

ARC 3610 Environmental Technology 1 3 Credits
Grading Scheme: Letter Grade
Principles and practices relating to control of the thermal/atmospheric environment and to plumbing in buildings.
Corequisite: ARC 3321 or ARC 4074.

ARC 3743 Architectural History 3 3 Credits
Grading Scheme: Letter Grade
A survey of the history of architecture from 1850 to present. Lectures examine the effects of social, political, material, technological and cultural forces on the design and construction of the built environment and explore the role of the architect in civil society. Emphasizes the theoretical positions of the architects and architectural schools.
Prerequisite: architecture major.
Corequisite: ARC 3320.

ARC 3880 Sustainable Architecture 3 Credits
Grading Scheme: Letter Grade
How environmentalism informs architectural discourses and how discourses on the built environment and urbanism impact environmentalism globally.
Prerequisite: junior standing or higher or instructor permission.

ARC 4071 Core Studio 1 6 Credits
Grading Scheme: Letter Grade
Introduces a variety of design techniques, including design theory, three-dimensional development and spatial relationships.

ARC 4072 Core Studio 2 6 Credits
Grading Scheme: Letter Grade
Continuation of core studio sequence with increased emphasis on manipulation of architectural elements.
Prerequisite: ARC 4071.

ARC 4073 Core Studio 3 6 Credits
Grading Scheme: Letter Grade
Continuation of core studio sequence with studio projects related to program development, structural integration, energy analysis and introduction to mechanical integration systems.
Prerequisite: ARC 4072.

ARC 4074 Core Studio 4 6 Credits
Grading Scheme: Letter Grade
Continuation of core studio sequence with increased emphasis on complex building types.
Prerequisite: ARC 4073.

ARC 4220 Architectural Theory 2 3 Credits
Grading Scheme: Letter Grade
Investigates the theoretical, historical and ideological ideas in architecture that took place during the early decades of the twentieth century.
Corequisite: ARC 4322 or ARC 6241.

ARC 4310C Building Information Modeling 3 Credits
Grading Scheme: Letter Grade
Emerging technology in building information modeling (BIM) in the context of architectural design development and documentation. Theoretical and technological evolution of different typologies of software with hands-on experience designing and modeling with BIM software.
Prerequisite: ARC 2180.

ARC 4322 Architectural Design 7 6 Credits
Grading Scheme: Letter Grade
Emphasizes the notion of control over architectural design processes needed to arrive at solutions that respond to needs through appropriate use of program development and construction technology. Course emphasizes the complete building as a final product and focuses on the urban and suburban housing project.
Prerequisite: ARC 3321.

ARC 4323 Architectural Design 8 6 Credits
Grading Scheme: Letter Grade
Architecture designs focus on architectural detail and articulation. An investigation of landscape provides the context for this study.
Prerequisite: ARC 4322.

ARC 4511 Structural Modeling 3 Credits
Grading Scheme: Letter Grade
Introduces the fundamentals of structural modeling including building information modeling (BIM), digital design, and approximate systems analysis and detailing for architectural structures. Students will learn how to efficiently implement building information modeling to organize, coordinate and communicate information to convey data necessary for structural systems.
Prerequisite: ARC 3503.

ARC 4620 Environmental Technology 2 3 Credits
Grading Scheme: Letter Grade
Fundamentals of architectural lighting, acoustics, electrical power distribution and building communications.
Corequisite: ARC 4322 or ARC 6241.

ARC 4684 LEED for Sustainable Design and Construction 3 Credits
Grading Scheme: Letter Grade
Campus projects demonstrate design and construction of high performance buildings and application of green building technologies. Economics and market development associated with the application of green building rating systems, with a focus on LEED. Successful completion helps prepare for LEED V4 Green Associate exam credentials.
Prerequisite: junior standing or higher.

ARC 4882 Vernacular Architecture and Sustainability 3 Credits
Grading Scheme: Letter Grade
Investigates vernacular architecture in the discourse of architectural sustainability with an emphasis on the way that vernacular architecture has been constructed, represented and consumed in the environmental histories of architecture.
Prerequisite: junior standing or higher or instructor permission.

ARC 4930 Special Topics Seminar in Architecture 1-6 Credits
Grading Scheme: Letter Grade
Miscellaneous topics in architecture and related fields.
Prerequisite: junior standing or higher or instructor permission.

ARC 4941 Architectural Education 2 Credits
Grading Scheme: Letter Grade
Provides an awareness of curriculum development, project preparation, program/project presentation, constructive criticism and evaluation techniques.
Prerequisite: ARC 3321.

ARC 4950 Vicenza Institute of Architecture: Italian Language and Culture 3 Credits
Grading Scheme: Letter Grade
Taught through the Vicenza Institute of Architecture, located in Vicenza, Italy. It is intended for architecture students participating in the VIA program. The course establishes a basic level of competency in Italian language and culture as it relates to the architectural goals of the VIA program.
Prerequisite: ARC 3321.

ARC 4951 Vicenza Institute of Architecture: Architectural Design Studio 6 Credits
Grading Scheme: Letter Grade
Architectural design examining the regional contextual relationships found in northern Italy as well as central and southern Europe. Design exercises focus on the immediate relationships of European urban space, ideas of building program and the potential development of architectural details and material systems.
Prerequisite: ARC 3321.

ARC 4952 Vicenza Institute of Architecture: Analytical Sketching 3 Credits
Grading Scheme: Letter Grade
Introduces sketching as an analytical skill in understanding constructed space within the context of Italy's Veneto region as well as central and southern Europe.
Prerequisite: ARC 3321.

Art and Art History

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

All studio art and photography courses, except where noted as non-major courses, are restricted to majors in the School of Art and Art History. Non-majors wishing to register for 2000-level courses need to consult with the undergraduate advisor to determine possibilities of enrolling in art courses. Each semester the school offers non-major courses in ceramics and some other media.

Courses

ARE 2045 Introduction to Teaching Art 3 Credits
Grading Scheme: Letter Grade
Overview of the art-teaching field. Study of rationales for teaching art, contemporary art teaching practices, community art experiences and alternative career options.

ARE 2456 Digital Media in Art Education 3 Credits
Grading Scheme: Letter Grade
Introduces pre-service art teachers to computer applications in the fields of art and art education. Can substitute for EME 2040.
Prerequisite: art education major.

ARE 4242 Teaching Art: the Study of Practice 3 Credits
Grading Scheme: Letter Grade
Studies art-teaching practices in the public schools. Emphasizes art curriculum, planning, art instructional strategies, art room management and methods of evaluation in art.
Prerequisite: junior standing or higher and art education major.

ARE 4243 Principles of Teaching Art 3 Credits
Grading Scheme: Letter Grade
Investigates the contemporary issues in art, education and society that impact teaching art in public schools. Theoretical perspectives and practical strategies are explored for developing content and teaching approaches. (H) (WR)
Prerequisite: junior standing or higher and art education major.
Attributes: General Education - Humanities, Satisfies 4000 Words of Writing Requirement

ARE 4314 Art Education for Elementary Schools 2-3 Credits
Grading Scheme: Letter Grade
Helps the preparing classroom teacher develop a basic knowledge of art and the teaching of art at the elementary level.
Prerequisite: second-semester standing in the elementary ProTeach program;
Corequisite: ProTeach field experience in the fall and spring semesters.

ARE 4934C Student Teaching Seminar 1 Credit
Grading Scheme: Letter Grade
Addresses various issues and problems associated with student teaching with an emphasis on teaching methods, classroom management and assessment as they arise in actual classroom practice.
Prerequisite: senior standing and art major.
Corequisite: ARE 4940.

ARE 4940 Student Teaching in Art Education 4-12 Credits
Grading Scheme: S/U
Student-teaching classroom experience in art.
Prerequisite: minimum 2.5 GPA and art education major.

ARH 1003 Masterpieces of Art 3 Credits
Grading Scheme: Letter Grade
Provides an appreciation and foundation in visual literacy and introduces students to the special character of the visual arts and to a vocabulary critical to analysis and interpretation of the masterworks of art.

ARH 2000 Art Appreciation: American Diversity and Global Arts 3 Credits
Grading Scheme: Letter Grade
Introduces the visual arts from a global perspective with an emphasis on diversity in the United States. (H and D)
Attributes: General Education - Diversity, General Education - Humanities

ARH 2002 Introduction to Art: the Artistic Experience 3 Credits
Grading Scheme: Letter Grade
Introduces the artistic experience through the examination of different ideas, approaches and purposes of art. Not counted toward the major. (H and N)
Attributes: General Education - Humanities, General Education - International

ARH 2050 Introduction to the Principles and History of Art 1 3 Credits
Grading Scheme: Letter Grade
Principles of art and relation of styles to cultural context. Introductory study of art and architecture from ancient times to the end of the Middle Ages. (H and N)
Attributes: General Education - Humanities, General Education - International

ARH 2051 Introduction to the Principles and History of Art 2 3 Credits
Grading Scheme: Letter Grade
Continuation of ARH 2050. Art and architecture from the Renaissance to the present. (H and N)
Attributes: General Education - Humanities, General Education - International

ARH 2500 Non-Western Art 3 Credits
Grading Scheme: Letter Grade
The visual arts seen in the cultural context of Sub-Saharan Africa, the Pacific, Native America, India, China and Japan; prehistoric to recent. (H and N)
Attributes: General Education - Humanities, General Education - International

ARH 2531 Introduction to Asian Art 3 Credits
Grading Scheme: Letter Grade
Introduces asian art through selected topics, monuments, and specimens of its fine arts and material culture. Also introduces the distinctive artistic traditions of China, Korea, Japan, and India, as well as their historical background, interaction and innovation, similarities and differences, to reach a better understanding of asian art.

ARH 2613 Introduction to Latin American Art 3 Credits
Grading Scheme: Letter Grade
Introduces the art of ancient, colonial, and modern Latin America, tracing artistic legacies over 4000 years. Begins with overview of ancient art of Mesoamerica and the Andes, followed by consideration of art of the colonial era. Then addresses art of modern and contemporary Latin America, including Brazil and the Caribbean.

ARH 2930 Special Topics in Art History 3 Credits
Grading Scheme: Letter Grade
Special topics in art history. (H)
Attributes: General Education - Humanities

ARH 3115 Egyptian and Near Eastern Art 3 Credits
Grading Scheme: Letter Grade
The art and architecture of Egypt and the Near East from the beginning of civilization until the Persian period. (H and N)
Prerequisite: ARH 2050 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 3130 Greek Art 3 Credits
Grading Scheme: Letter Grade
The art and architecture of ancient Crete and Greece through the Hellenistic age. (H and N)
Prerequisite: (ARH 2050 or CLA 3700) and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 3171 Etruscan and Roman Art 3 Credits
Grading Scheme: Letter Grade
The art and architecture of the Italian peninsula from the Etruscan period through the Roman Empire. (H and N)
Prerequisite: (ARH 2050 or CLA 3700) and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 3357 Global Baroque Art 3 Credits
Grading Scheme: Letter Grade
Studies Baroque and Rococo art from a global perspective, considering how and why the style appeared in so many regions (even those with no Roman and/or Renaissance heritage) and what its distinct meanings were. Also examines the origins of the concepts of the Baroque and Rococo.
Prerequisite: ARH 2050 or ARH 2051.

ARH 3412 Art in the Age of Revolution 3 Credits
Grading Scheme: Letter Grade
Topics in the late 18th and early 19th century European art, including Neo-Classicism and Romanticism. Works of art are considered in the cultural, political, social and aesthetic contexts in which they were made. Emphasizes the politics of style during this period of revolution and resection. (H) (WR)
Prerequisite: ARH 2051 or art major or art history minor.
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

ARH 3413 The Beginnings of Modernism 3 Credits
Grading Scheme: Letter Grade
The visual arts in Europe in the second half of the 19th century, focusing on the emergence of an avant-garde and formulation of a modernist aesthetic with reference to industrialized, urban culture, especially in Paris. Addresses Realism, Impressionism and Post-Impressionism. (H) (WR)
Prerequisite: ARH 2051 or art major or art history minor.
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

ARH 3513 Art, Culture and Power in Africa 3 Credits
Grading Scheme: Letter Grade
Explores the many ways in which power operates through objects in Africa. It examines the symbolic and literal power of royal regalia; the religious/spiritual power of objects used in ritual contexts; and the power that surrounds objects as they are transformed into commodities in international art markets. (WR)

ARH 3522 Contemporary African Art 3 Credits
Grading Scheme: Letter Grade
Examines contemporary African artistic production and its reception in international markets.
Prerequisite: (School of Art + Art History major or minor) or instructor permission.

ARH 3523 Clothing and Textiles in Africa 3 Credits
Grading Scheme: Letter Grade
Examines the techniques, styles, and cultural contexts of textiles and other elements of dress in Africa, past and present.
Prerequisite: (School of Art + Art History major or minor) or instructor permission.

ARH 3525 The Arts of West Africa 3 Credits
Grading Scheme: Letter Grade
A survey of the traditional arts of the Western Sudan and the Guinea coast. (H and N)
Attributes: General Education - Humanities, General Education - International

ARH 3526 The Arts of Central Africa 3 Credits
Grading Scheme: Letter Grade
Surveys the traditional arts of the equatorial forests, the savannahs to the south of them and portions of Eastern and Southern Africa. (H and N)
Attributes: General Education - Humanities, General Education - International

ARH 3552 Chinese Art and Archaeology 2000 BCE 3 Credits
Grading Scheme: Letter Grade
Art and material culture from the Neolithic to the Tang Dynasty: palaces and tombs, religious art and the rise of new media and technologies. (H and N)
Attributes: General Education - Humanities, General Education - International

ARH 3555 Late Imperial and Modern Chinese Art, 1907 - present 3 Credits
Grading Scheme: Letter Grade
The arts and culture of China from five Dynasties to the present in all media, including architecture, painting, sculpture and luxury crafts. (H and N)
Attributes: General Education - Humanities, General Education - International

ARH 3562 Text and Image in Chinese Art 3 Credits
Grading Scheme: Letter Grade
Studies general art historical theories on the dialectics of text and Image into chinese art history by examining the origins, the early development, and the relationship between the word and image, picture and narrative, diagram and text, and other visual and verbal arts in traditional and modern china.
Prerequisite: sophomore standing or higher.

ARH 3585 The Arts of Oceania 3 Credits
Grading Scheme: Letter Grade
Surveys the visual arts of Oceania (Polynesia, Micronesia, Melanesia) within the context of the cultures that produced them. (H and N)
Attributes: General Education - Humanities, General Education - International

ARH 3610 American Art 3 Credits
Grading Scheme: Letter Grade
Architecture, painting, sculpture, and decorative arts in Anglo-America from their 17th century beginnings to the end of the 19th century. (H) (WR)
Prerequisite: ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

ARH 3620 American Art 1876-1945 3 Credits
Grading Scheme: Letter Grade
Focuses on painting and sculpture as well as architecture, photography and visual culture. (H) (WR)
Prerequisite: ARH 2051 or art major or art history minor.
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

ARH 3622 Introduction to African-American Art 4 Credits
Grading Scheme: Letter Grade
Introduces the study and appreciation of African-American art.
Prerequisite: ARH 2051 or art major or art history minor.

ARH 3631 African American Art 1600 to Present 3 Credits
Grading Scheme: Letter Grade
Survey of visual arts produced by people of African descent in North America from colonial era to present. (H and D) (WR)
Prerequisite: ARH 2051 or art major or art history minor.
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 2000 Words of Writing Requirement

ARH 3652 Ancient Andean Art 3 Credits
Grading Scheme: Letter Grade
Art and architecture of Pre-Columbian Lower Central and South America focusing on the Andean Indian civilizations. (H and N)
Attributes: General Education - Humanities, General Education - International

ARH 3653 MesoAmerican Art 3 Credits
Grading Scheme: Letter Grade
Art and architecture of Pre-Columbian civilizations of Mexico and the Maya area from 3000 B.C. until the Spanish Conquest in A.D. 1521. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

ARH 3661 Latin American Art 3 Credits
Grading Scheme: Letter Grade
The architecture, painting, sculpture and important minor arts of colonial and modern Latin America. (H and N)
Prerequisite: ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 3664 Colonial Art of New Spain 3 Credits
Grading Scheme: Letter Grade
Examines the colonial art of Mexico and other territories within the Spanish Viceroyalty of New Spain. Focused on the viceregal period (1535-1821), the course also considers art from the periods of European contact and Spanish conquest and concludes with art from the independence period.
Prerequisite: ARH 2051 and (art major or art history minor).

ARH 3665 Colonial Andean Art 3 Credits
Grading Scheme: Letter Grade
Examines the colonial art of Peru, Ecuador, Bolivia and other territories within the Spanish Viceroyalty of Peru. Focused on the viceregal period (1542-1824), the course also considers art from the periods of European contact and Spanish conquest and concludes with art from the independence period.
Prerequisite: ARH 2051 and (art major or art history minor).

ARH 3678 Modern and Contemporary Art from Latin America 3 Credits
Grading Scheme: Letter Grade
Introduces the modern and contemporary art of latin america with topics such as the emergence and establishment of a modern canon, experimentations in surrealism, neo-concretism, conceptual art, and performance.
Prerequisite: sophomore standing or higher.

ARH 3727 History of American Illustration 3 Credits
Grading Scheme: Letter Grade
Introduces the history of illustration in America from the colonial period to the present. In addition to presenting major illustrators, the course provides artistic, technological and cultural contexts for understanding the functions and meaning of illustration at different historical moments.
Prerequisite: ARH 2051 recommended.

ARH 3800 Criticism of Art 3 Credits
Grading Scheme: Letter Grade
Reviews principal theories in the history of criticism. Analysis and evaluation of works of art. Problems in the criticism of contemporary art. Required for art history majors. (H)
Prerequisite: (ARH 2050 and ARH 2051) and (art major or art history minor).
Attributes: General Education - Humanities

ARH 3871 Gender, Representation and the Visual Arts, 1600-1900 3 Credits
Grading Scheme: Letter Grade
Considers historical and theoretical issues posed for visual media by attention to issues of gender, with particular emphasis on women artists. (H and D) (WR)
Prerequisite: ARH 2051 or instructor permission.
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 2000 Words of Writing Requirement

ARH 4135 Greek Sculpture 3 Credits
Grading Scheme: Letter Grade
Greek sculpture from its beginnings in the Geometric period through the Hellenistic period. (H and N)
Prerequisite: (ARH 2050 or CLA 3700) and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4200 Early Medieval and Byzantine Art 3 Credits
Grading Scheme: Letter Grade
The art and architecture of Europe and the Mediterranean region from approximately the 4th to the 14th centuries A.D. (H and N)
Prerequisite: ARH 2050 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4251 Romanesque and Gothic Art 3 Credits
Grading Scheme: Letter Grade
Art and architecture of Europe during the Romanesque and Gothic periods. (H and N)
Prerequisite: ARH 2050 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4304 Italian Renaissance Architecture 3 Credits
Grading Scheme: Letter Grade
The architecture of the Italian Renaissance from the mid-14th century through the mid-16th century. (H and N)
Prerequisite: ARH 2050 and ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4310 Early Renaissance Art in Italy 3 Credits
Grading Scheme: Letter Grade
Italian art from 1200 to 1500. Emphasis upon painting and sculpture. (H and N)
Prerequisite: ARH 2050 and ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4312 Late Renaissance Art in Italy 3 Credits
Grading Scheme: Letter Grade
Continuation of ARH 4310. Italian art and architecture from 1460 to 1590. Emphasis on painting and sculpture. (H and N)
Prerequisite: ARH 2050 and ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4331 Renaissance Art in Northern Europe 3 Credits
Grading Scheme: Letter Grade
Sources and development of late 14th, 15th and 16th century art outside Italy. Emphasis on painting and prints. (H and N)
Prerequisite: ARH 2050 and ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4332 The Religious Image in the Renaissance and Reformation 3 Credits
Grading Scheme: Letter Grade
Art produced for devotional and liturgical use in the 15th and 16th centuries with particular attention to the period debate over the proper role for images in worship and society. Addresses altar pieces, personal devotion, pilgrimage, iconoclasm and the Reformation.
Prerequisite: ARH 2050 and ARH 2051 and (art major or art history minor).

ARH 4350 Baroque Art in Europe 3 Credits
Grading Scheme: Letter Grade
Continuation of ARH 4311-4331. European art and architecture in the 17th and 18th centuries. Emphasis on painting and sculpture. (H and N)
Prerequisite: ARH 2050 and ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4352 Baroque Rome 3 Credits
Grading Scheme: Letter Grade
Examines sculptors, painters and architects working in Rome between the period of 1564 and 1750 and considers the art of Bernini, Caravaggio and Borromini and many more major artists who made Rome the art capital of the world in the seventeenth century.
Prerequisite: ARH 2050 and ARH 2051 and (art major or art history minor).

ARH 4356 French Art of the Ancien Regime 1650-1780 3 Credits
Grading Scheme: Letter Grade
Deals with major artists, artistic movements, works and issues in art theory and criticism in Europe from the late 17th century to the 1780s. Special emphasis is given to painting in France and to the reaction against the Rococo. (H and N) (WR)
Prerequisite: ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International, Satisfies 4000 Words of Writing Requirement

ARH 4359 Eighteenth Century European Art Seminar 3 Credits
Grading Scheme: Letter Grade
Topics in 18th century European art.
Prerequisite: ARH 2051 and (art major or art history minor).

ARH 4370 European Decorative Arts 1400-1600 3 Credits
Grading Scheme: Letter Grade
Tapestry, ceramics, glass, metalwork, furniture and interior design considered in the cultural, social and economic context of Renaissance, Baroque and Enlightenment Europe. Examines role of objects in the arrangement and use of spaces designed for daily and ceremonial life.
Prerequisite: ARH 2051 and (art major or art history minor).

ARH 4450 Early Twentieth Century Art 3 Credits
Grading Scheme: Letter Grade
European and American art from Post-Impressionism to 1945. Emphasis on painting and sculpture. (H)
Prerequisite: ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities

ARH 4453 Mid-Twentieth Century Art 3 Credits
Grading Scheme: Letter Grade
Emphasis on international art from the 1940s through the 1960s. (H)
Prerequisite: ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities

ARH 4471 Late Twentieth Century Art 3 Credits
Grading Scheme: Letter Grade
Continuation of ARH 4453. Main movements in international art since about 1970 to the present. Focuses on the theory and various expressions of Post-Modernism. (H and N)
Prerequisite: ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4514 Arts of Southern Africa 3 Credits
Grading Scheme: Letter Grade
Focuses on diverse regions, time periods and genres in the visual arts in southern Africa, with particular attention to the arts of South Africa. It explores art in archaeological contexts, arts associated with indigenous cultures, art that emerged out of encounters with European cultures and contemporary arts. (H and N)

ARH 4533 Asian Monuments and Heritage Conservation 3 Credits
Grading Scheme: Letter Grade
Introduces the theories and basic issues in the studies of monuments in Asian art. Course provides a solid grounding in both the theories and practices of heritage conservation so that students can reach a better understanding of the artistic, social and political elements in the making of monuments.

ARH 4559 Archaeology of Death in Ancient China 3 Credits
Grading Scheme: Letter Grade
Explores death-ritual and burial in China's classical period (800 BCE-200 CE) from archaeology's comparative perspective. It offers an interdisciplinary approach to the religious dimensions of mortuary practices in the Warring States, Qin and Han China.

ARH 4710 History of Photography 3 Credits
Grading Scheme: Letter Grade
Surveys major technical, stylistic, and critical directions in photography from the 19th century to the present. (H and N)
Prerequisite: ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4744 History of Art Film and Video 3 Credits
Grading Scheme: Letter Grade
Introduces the history of art, film and video art practices in the 20th century.
Prerequisite: ARH 2051.

ARH 4882 Art and Colonialism: Focus on Africa 3 Credits
Grading Scheme: Letter Grade
What does visual art reveal about European and African experiences of colonial rule? Along with the famous history of African arts influence on European modern art, this course investigates the African response to colonial power and addresses contemporary manifestations of this history in the postcolonial museum worlds of Europe and Africa.
Prerequisite: ARH 2500 or (junior status or higher with an Art History major or African Studies minor).

ARH 4905 Individual Study 1-3 Credits
Grading Scheme: Letter Grade
With consent of faculty, students can take this course under special circumstances: student needs a specific course for the degree and the class in not offered or student (senior) wishes to explore an area of inquiry in greater depth after completing all 3000-level courses in their major.
Prerequisite: art or art history major and department permission.

ARH 4930 Special Topics in Art History 1-3 Credits
Grading Scheme: Letter Grade
Rotating special topics in art history.
Prerequisite: ARH 2050 or ARH 2051 and (art major or art history minor).

ARH 4931 Art History Seminar 3 Credits
Grading Scheme: Letter Grade
In-depth discussion of selected field of art, either a period and area or a topic. Analysis of art-historical writings through class presentations and written papers. Offered by members of the art history faculty on alternating basis.
Prerequisite: ARH 2050 and ARH 2051 and (art major or art history minor).

ARH 4940 Internship 3 Credits
Grading Scheme: S/U
Supervised practical experience with an art, graphic design or museum facility according to an approved program. Special seminar and evaluation sessions with faculty advisor and art facility manager. (S-U)
Prerequisite: arrangement with art advisor and chair and dean permission.

ART 1010C Non-Major Photography: Imaging Society, Culture and Diversity in America 3 Credits
Grading Scheme: Letter Grade
In this course for non-majors, students use photographs they make to spur discussions about how photography shapes U.S. culture, diversity, and history. Through hands-on projects, critical readings, online lectures, quizzes and small-group discussions, students develop skills to create and understand engaging and conceptually rich photography.

ART 1803C Workshop for Art Research and Practice: WARP 6 Credits
Grading Scheme: Letter Grade
Interdisciplinary, team-taught introductory course pairing studio experiences in a wide variety of media with introduction to concepts, theories and practices in contemporary art. In-depth exploration of creative processes, artistic integrity and the nature of artistic meaning.
Prerequisite: art major or art education major or visual art studies major or graphic design major.

ART 2013C Space Studio 3 Credits
Grading Scheme: Letter Grade
A project-based studio foundation course for spatial investigations where students will explore methods for defining space, conceptualizing space, three-dimensional design strategies, form development and an overview of concepts that shape the contemporary artists understandings of form and space.
Prerequisite: art major.

ART 2030C Introduction to Painting 3 Credits
Grading Scheme: Letter Grade
Investigates the visual language of painting and introduces the fine arts major to techniques and concepts relevant to painting including a comprehensive study of lights and darks, color.
Prerequisite: ART 1803C.

ART 2305C Perceptual Drawing 3 Credits
Grading Scheme: Letter Grade
Introduces descriptive drawing. Basic theories of observation and depiction including perspective and chiaroscuro.
Prerequisite: ART 1803C.

ART 2330C Figure Drawing 1 3 Credits
Grading Scheme: Letter Grade
Introduces drawing the male and female figure from a live model using a variety of art materials, techniques and artistic approaches.
Prerequisite: ART 2305C.

ART 2353C Drawing Studio 3 Credits
Grading Scheme: Letter Grade
Development of drawing, design, philosophical and critical skills for making observational and expressive works in drawing media.
Prerequisite: art major.

ART 2374C Drawing: Movement and Motion 3 Credits
Grading Scheme: Letter Grade
Introduces the principles of visual movement in 2D art as well as the depiction of figurative gesture in drawing.
Prerequisite: ART 2305C.

ART 2401C Printmaking: Color Theory 3 Credits
Grading Scheme: Letter Grade
Basic monoprint technique, methods and materials. Color theory as applied to printmaking and other art media.
Prerequisite: ART 1803C.

ART 2468C Printmaking: Figure Ground 3 Credits
Grading Scheme: Letter Grade
Explores figure ground theory as related to 2D visual design and picture making. Basic skills in relief printing and Linocut-woodcut.
Prerequisite: ART 1803C.

ART 2500C Painting: Investigations in Black and White 3 Credits
Grading Scheme: Letter Grade
The organization of lights and darks in design and pictorial applications. Basic painting techniques in oil, acrylic and gouache.
Prerequisite: ART 1803C.

ART 2501C Painting: Investigations in Color 3 Credits
Grading Scheme: Letter Grade
Investigates color interaction and its role in pictorial composition. Exploration of color and light as well as the expressive use of color in painting.
Prerequisite: ART 1803C.

ART 2503C Painting from Observation 3 Credits
Grading Scheme: Letter Grade
Exercises and projects in seeing and painting. Emphasis on depicting of form, space and light.
Prerequisite: ART 1803C.

ART 2620C Net Art 3 Credits
Grading Scheme: Letter Grade
Explores practical and theoretical issues related to the Internet as a medium for making art rather than as a tool for delivering information. Emphasizes the creation of dynamic and interactive experiences on the web that integrate video, graphics, animation, sound, image, and typography.
Prerequisite: art/history or graphic design major within the School of Art and Art History with a major code of ART, GRD, EAR, HYA, or VAS.

ART 2680C Time Studio 3 Credits
Grading Scheme: Letter Grade
Introduces the concepts of time-based, participatory art practice through animation, video, sound, performance, and installation. Students create artwork that explores linear and non-linear narrative, seriality, context, embodiment, virtuality, and networks. Aesthetic, technical, historical, and conceptual issues within the context of contemporary art and theory will be addressed through lectures, demonstrations, exercises, projects, screenings, research, and readings.
Prerequisite: Major code of ART, GRD, VAS, EAR, or HYA.

ART 2701C Sculpture: Shaping Form and Space 3 Credits
Grading Scheme: Letter Grade
Investigates the co-shaping of form and space in full three dimensions. Emphasis on additive and subtractive processes.
Prerequisite: ART 1803C.

ART 2702C Sculpture: Gravity and Buoyancy 3 Credits
Grading Scheme: Letter Grade
Based on objects that float, inflate or suspend; examines weight, mass, and space as artistic phenomena and includes instruction in appropriate construction techniques.
Prerequisite: ART 1803C.

ART 2704C Figurative Ceramics 3 Credits
Grading Scheme: Letter Grade
Introduces figure sculpture and life modeling using fired clay; techniques include building, surfacing and firing. Includes perceptual studies from model and concept development, centering on using the figure as a vehicle for personal expression. Class format includes slide and video presentations, a life model sequence and critiques.
Prerequisite: ART 2757C.

ART 2750C Ceramics for Non-Majors 3 Credits
Grading Scheme: Letter Grade
A studio based introductory course that teaches ceramic art through techniques of handforming.

ART 2752C Throwing: Skills and Concepts 3 Credits
Grading Scheme: Letter Grade
Introduces wheel throwing, pottery from, functional design and aesthetics.
Prerequisite: ART 2757C.

ART 2757C Ceramics: 3D Concepts 3 Credits
Grading Scheme: Letter Grade
Introduces three-dimensional form and design concepts using fired clay; includes hand-forming techniques, an introduction to glazing (fired color) and electric kiln firing.
Prerequisite: ART 1803C.

ART 2770C Ceramics for Non-Majors: Wheel Throwing 3 Credits
Grading Scheme: Letter Grade
Introduces the making of functional vessels on the potters wheel as expressive art. Focuses on throwing skills and three-dimensional design concepts related to the functional ceramic vessel and creative problem-solving. Provided technical information supports an understanding of forming, surfacing, glazing, and firing.

ART 2773C Ceramics: Skills and Concepts - Sculpture 3 Credits
Grading Scheme: Letter Grade
Introduces ceramic sculpture, sculpture techniques and processes using fired clay supported by design and idea development. Modeling and carving, slab fabrication and coil-building, color and surfacing through glazing and firing support, creative expression and communication of personal ideas.

ART 2777C Ceramics Skills and Concepts: Vessel 3 Credits
Grading Scheme: Letter Grade
Introduces conceptualization and expression of personal ideas using the vessel as an art form: functional design and aesthetics, formation and communication of personal ideas through design, clay as a material, technical handbuilding and wheel throwing forming methods, surfacing methods, and firing of work.

ART 2825C Perceptual Studio 3 Credits
Grading Scheme: Letter Grade
Questions and expands an understanding of seeing and how seeing is informed by physical, psychological, and ideological systems. Emphasizes experimentation and research focused on contemporary art and 2D design practices and theories to strengthen visual organization through hand, lens, and digital processes.
Prerequisite: ART 1803C and School of Art + Art History major.

ART 2930C Special Topics in Art 3 Credits
Grading Scheme: Letter Grade
Rotating special topics in studio art and studio practice.
Prerequisite: ART 1803C.

ART 2934C Special Topics in Studio Art for Non-Art Majors 3 Credits
Grading Scheme: Letter Grade
Rotating topics in introductory studio art and studio practice for non-art majors. This course cannot count toward degree requirements for any majors in the School of Art + Art History.
Prerequisite: non-art major or non-art history major.

ART 2936C Rotating Topics in Drawing for Non-Art Majors 3 Credits
Grading Scheme: Letter Grade
Use dynamic drawing techniques and approaches to explore contemporary art and connections across disciplines.
Prerequisite: non-art major or non-art history major.

ART 3043C Interdisciplinary Mixed Media: Painting, Drawing, Photo 3 Credits
Grading Scheme: Letter Grade
Inter-media mixed media dissolves the normal boundaries between painting, drawing, and photography. Students identify a core idea or sensibility that is the essence of who they are as an artist and then are required to work in at least the three media: painting, drawing, and photography.
Prerequisite: junior level ART, GRD, EAR, CPH, or VAS major.

ART 3310C Color Drawing 3 Credits
Grading Scheme: Letter Grade
Explores color theory and color usages in drawing. Emphasis on techniques, strategies and materials.
Prerequisite: ART 2305C and ART 2374C and art major of junior standing or higher.

ART 3311C Thematic Projects in Drawing 3 Credits
Grading Scheme: Letter Grade
Intermediate-level emphasis of conceptual strategies and image construction through the lens of themes in film, literature, and art using color drawing media.
Prerequisite: Junior level ART, GRD, EAR, CPH, or VAS major.

ART 3332C Figure Drawing 2 3 Credits
Grading Scheme: Letter Grade
Comprehensive study of the figure from observation of live models. Study of anatomy, composition and conceptual strategies.
Prerequisite: ART 2330C and junior-level art major.

ART 3380C Experimental Drawing 3 Credits
Grading Scheme: Letter Grade
Exposure to unfamiliar materials and techniques both antique and modern. Invention strategies and contemporary motivating factors explored.
Prerequisite: ART 2305C and ART 2374C and art major of junior standing or higher.

ART 3381C Sketch Journal: Uses and Development 3 Credits
Grading Scheme: Letter Grade
Historic and contemporary uses of sketch journals. Exploration of notation, studies, invention and conceptualization in sketchbook drawing techniques.
Prerequisite: ART 2305C, ART 2374C and junior-level art major.

ART 3420C Printmaking: Lithography 3 Credits
Grading Scheme: Letter Grade
Studio and print shop training in lithographic technique, including plate and stone methods. Emphasis on continued conceptual development.
Prerequisite: ART 2401C and ART 2468C and art major of junior standing or higher.

ART 3433C Screen Printing 3 Credits
Grading Scheme: Letter Grade
Explores screen printing techniques utilizing drawn and photo-generated stencil processes.
Prerequisite: ART 2401C and ART 2468C and art major of junior standing or higher.

ART 3442C Printmaking: Intaglio 3 Credits
Grading Scheme: Letter Grade
Studio training in this basic printmaking process including dry point, etching and color intaglio. Continued emphasis on artistic inquiry.
Prerequisite: ART 2401C and ART 2468C and art major of junior standing or higher.

ART 3462C Print Photo Intaglio 3 Credits
Grading Scheme: Letter Grade
Application of film and digital photography to printmaking media utilizing intaglio printmaking.
Prerequisite: ART 2401C and ART 2468C and art major of junior standing or higher.

ART 3504C Painting: Structure and Transformation 3 Credits
Grading Scheme: Letter Grade
Examines form and structure theory in painting and its application in development of idea and painterly process.
Prerequisite: two of three from ART 2500C or ART 2501C or ART 2503C and art major of junior standing or higher.

ART 3521C Site-Specific Painting Studio 3 Credits
Grading Scheme: Letter Grade
Explores the relationship between painting and architecture as well as developments in the field of unheroic or provisional painting.
Prerequisite: junior level ART, GRD, EAR, CPH, or VAS major with at least one course in painting.

ART 3522C Painting: Exploring the Series 3 Credits
Grading Scheme: Letter Grade
Development of idea through the creation of series, groups and suites.
Prerequisite: two of three from ART 2500C or ART 2501C or ART 2503C and art major of junior standing or higher.

ART 3560C Figure Painting 3 Credits
Grading Scheme: Letter Grade
The human figure serves as a formal and expressive motif as well as a departure point for creating individual painting statements.
Prerequisite: two of three from ART 2500C or ART 2501C or ART 2503C and art major of junior standing or higher.

ART 3561C Projects in Painting: Experiments in Media 3 Credits
Grading Scheme: Letter Grade
Students contract with their instructor to create a body of work in painting, experimenting with materials and methods related to disciplines in painting.
Prerequisite: (two of three from ART 2500C or ART 2501C or ART 2503C) or instructor permission.

ART 3615C Digital Art and Animation 2 3 Credits
Grading Scheme: Letter Grade
Explores 3D modeling techniques and tools; Students will learn advanced animation techniques using 3D software that builds upon skills acquired from Digital Art and Animation 1.
Prerequisite: ART 3616C.

ART 3616C Digital Art and Animation 1 3 Credits
Grading Scheme: Letter Grade
Explores time-based computer art including animation, interactive and Internet-based projects.
Prerequisite: DIG 2131C and DIG 2282C.

ART 3711C Sculpture: Materials and Methods 3 Credits
Grading Scheme: Letter Grade
Problems in sculptural form and composition with work in plaster, clay, metal and other materials.
Prerequisite: (ART 2701C or ART 2702C) and art major of junior standing or higher.

ART 3712C Sculpture: Concepts and Strategies 3 Credits
Grading Scheme: Letter Grade
Continues the emphasis on sculptural materials such as mixed media, metal fabrication, and casting.
Prerequisite: (ART 2701C or ART 2702C) and art major of junior standing or higher.

ART 3730C Machine Sculpture 3 Credits
Grading Scheme: Letter Grade
Explores the boundaries of physical and electronic media including the use of sound, light, computers and motion in sculpture.
Prerequisite: ART 3842C or a 3000-level sculpture course.

ART 3734C Sculpture Metals 3 Credits
Grading Scheme: Letter Grade

ART 3764C Ceramic Sculpture 1 3 Credits
Grading Scheme: Letter Grade
Investigates the intermediate level of technical, conceptual and aesthetic issues involved with sculpting using ceramic materials. Students will learn to use sculptural form to convey ideas based on contemporary culture. Projects focus on the use of low-fire materials, image development and glaze electric fired to enhance sculpture.
Prerequisite: ART 2757C.

ART 3768C Ceramic Sculpture 2 3 Credits
Grading Scheme: Letter Grade
Investigates the intermediate level in experimental sculpture processes using fired clay, plaster and latex mold-making as well as technical and aesthetic explorations with large scale works. Historical and contemporary precedents of ceramic sculpture are presented. Concept development and expression through sculptural form are core elements in the course.
Prerequisite: ART 2757C.

ART 3783C Ceramic Design 3 Credits
Grading Scheme: Letter Grade
Investigates the intermediate level of technical, aesthetic, and conceptual issues in ceramics. Study the formulation of clay and preparation of glaze materials with an emphasis on personalized expression through the ceramic design process.
Prerequisite: ART 2752C and ART 2757C.

ART 3784C Vessel Aesthetic 2 3 Credits
Grading Scheme: Letter Grade
Investigates the intermediate level of technical, aesthetic and conceptual issues in pottery. Students study the formulation and use of color in glaze materials. Emphasis on personalized expression through vessel surface techniques.
Prerequisite: ART 2752C and ART 2757C.

ART 3807C Interdisciplinary Studio 3 Credits
Grading Scheme: Letter Grade
Critical thinking, problem solving, and creative activity in collaboration and cross media art-making.
Prerequisite: art major of junior standing or higher.

ART 3842C Performance and Installation 3 Credits
Grading Scheme: Letter Grade
Explores the complex relationships among object, body, site, space, and architecture using various visual media in the creation of installation and performance art.
Prerequisite: ART 2701C or ART 2702C.

ART 3857C PROFESSIONAL PRACTICES 3 Credits
Grading Scheme: Letter Grade
An introduction to creative professional practices including research proposals, exhibition planning, website development, graduate school applications and more. Integrating on campus resources, students will be introduced to the skills sets necessary for developing a sustainable career in visual art.
Prerequisite: (ART, EAR, or VAS major) and junior standing or instructor permission.

ART 3870C Reinterpreting Global Masterpieces: Recontextualizing Masterworks from the Harn Museum of Art 3 Credits
Grading Scheme: Letter Grade
Studies masterpieces from the harn through observation and research investigating intensions, meanings, and technical processes. Examines why and how various cultures developed unique styles and approaches. Students reinterpret global masterpieces through choice of media and processes to create new artworks inspired by existing cultural objects.
Prerequisite: must be able to take 3000 level studio courses.

ART 3930C Special Topics in Studio Art for Non-Art Majors 3 Credits
Grading Scheme: Letter Grade
Rotating topics in studio art and studio practice for juniors and seniors not majoring in art. This course cannot count toward any major within the School of Art and Art History.
Prerequisite: junior or senior level.

ART 3959C Video Art 3 Credits
Grading Scheme: Letter Grade
Explores video with an emphasis on editing and building a personal vocabulary through the electronic image.
Prerequisite: DIG 2131C and DIG 2282C and digital media major of junior standing or higher.

ART 4312C Advanced Drawing 6 Credits
Grading Scheme: Letter Grade
Emphasizes individual and creative expression.
Prerequisite: ART 3310C and ART 3332C and ART 3380C and ART 3381C.

ART 4402C Advanced Printmaking 3-6 Credits
Grading Scheme: Letter Grade
Advanced problems in creative printmaking.
Prerequisite: ART 3442C, ART 3420C and ART 3443C.

ART 4505C Advanced Painting 6 Credits
Grading Scheme: Letter Grade
Emphasizes individual creative expression.
Prerequisite: ART 3522C and ART 3560C and ART 3561C.

ART 4612C Digital Media Workshop 3 Credits
Grading Scheme: Letter Grade
Bridges the study of digital media and broadly envisioned professional practices in the field. Emphasis on portfolio and project development for transition to advanced study or professional, expressive or applied practices in integrated media.
Prerequisite: ART 2620C and DIG 4527C.

ART 4630C Video Art: Advanced Projects 3 Credits
Grading Scheme: Letter Grade
Focuses on the completion of larger scale student-directed projects with a special emphasis on pre-production planning and advanced editing techniques.
Prerequisite: ART 3959C.

ART 4631C Computer Art: Advanced Projects 6 Credits
Grading Scheme: Letter Grade
Advanced work in computer-mediated art, including animation and interactive works in both the physical and virtual domain, with special emphasis on completion of larger scale student-directed projects.

ART 4639C Advanced Experiments in Art and Technology 3 Credits
Grading Scheme: Letter Grade
Special topics course that explores new forms of digital media production. Topics reflect emerging forms of digital media.
Prerequisite: DIG 3525C and DIG 3526C and digital media major of senior standing.

ART 4642C Digital Fabrication 3 Credits
Grading Scheme: Letter Grade
Interdisciplinary studio combines in-depth analysis of the role of the physical object in diverse conceptual art practices with project-based experimentation using rapid prototyping and manufacturing technologies.
Prerequisite: (DIG 2131C and School of Art + Art History major of junior standing or higher) or instructor permission.

ART 4645C Sensors and Electronics-Based Art 3 Credits
Grading Scheme: Letter Grade
Physical computing HCI (human computer interaction) explores how devices respond to and interact with human physical action. Students will create artwork that explores physical interfaces beyond mouse/keyboard/screen interactions through the use of microcontrollers and sensors.
Prerequisite: ART 3133C, junior-level digital media major and/or instructor permission.

ART 4710C Advanced Sculpture 6 Credits
Grading Scheme: Letter Grade
Advanced problems in sculptural form with development of processes and techniques.
Prerequisite: ART 3711C and ART 3712C.

ART 4760C Advanced Ceramics 3-6 Credits
Grading Scheme: Letter Grade
Focuses on advanced technical and creative concepts with emphasis on developing personal work and professional practices preparation.
Prerequisite: ART 3783C and ART 3764C and ART 3768C and ART 3784C.

ART 4848C Installation Using Digital Processes 3 Credits
Grading Scheme: Letter Grade
Explores site specificity and intervention in 3D space through installation, using digital media to understand concepts such as sequence, narration, scoring, interactivity, motion and recursion.
Prerequisite: DIG 4527C and ART 3959C

ART 4883C Making and Meaning 3 Credits
Grading Scheme: Letter Grade
Explores the creation of art in combination with non-art related research. Develop a deeper connection with created artwork and discover how the act of making can reveal both intentions and underlying motives.
Prerequisite: School of Art + Art History major of junior standing or higher.

ART 4905C Individual Study 1-3 Credits
Grading Scheme: Letter Grade
With consent of faculty, students can take this course for special circumstances: student needs a specific course for the degree and the class is not offered or student (senior) wishes to explore an area of inquiry in greater depth after completing all 3000-level courses in their major.
Prerequisite: senior-level art major and arrangement by and permission of the art advisor and director.

ART 4930C Special Topics in Studio Practice 1-6 Credits
Grading Scheme: Letter Grade
Rotating special topics in studio art and studio practice.

ART 4940 Internship 3 Credits
Grading Scheme: S/U
Supervised practical experience with an art, graphic design or museum facility according to an approved program. Special seminar and evaluation sessions with faculty advisor and art facility manager. (S-U)
Prerequisite: arrangement with art advisor and chair and dean permission.

ART 4955C Senior Project 1-3 Credits
Grading Scheme: Letter Grade
Visual verification of artistic qualifications for BFA degree. Preparations and activities (exhibition, portfolio, installation, etc.) to be determined in consultation with faculty advisor.
Prerequisite: senior-level art major.

DIG 1000C Workshop in Fundamental Digital Technologies 3 Credits
Grading Scheme: Letter Grade
Introduces the language and applications of digital media. Expect to achieve competency level in the basic use of technology through application and process.
Prerequisite: Art major.

DIG 2131C Digital Imaging 3 Credits
Grading Scheme: Letter Grade
Emphasizes the aesthetic and conceptual practices of image making using digital media. An exploration of a range of processes, concepts and theories including scanning, printing, image manipulation and color correction. Course emphasizes color theory and its application to image construction and expression.
Prerequisite: ART 1803C.

DIG 2282C Time-based Media 3 Credits
Grading Scheme: Letter Grade
Introduces the basic practices of time-based media, including animation and video with emphasis on narrative, planning of action and sequencing of images. Fundamental components include basic production techniques, project planning, linear and nonlinear narrative and the integration of various media to explore the possibilities of time-based experiences.
Prerequisite: ART 1803C.

DIG 2930 Special Topics: Foundations of Digital Culture 3 Credits
Grading Scheme: Letter Grade
In-depth examination of the technological and cultural underpinnings that shape current electronic media including video games, the internet, computer-animated movies, and virtual reality.

DIG 3020 Foundations of Digital Culture 3 Credits
Grading Scheme: Letter Grade
Interdisciplinary overview of the technological and cultural developments that continue to shape the modern world. Student research covers topics including telecommunications, digital and analog technologies, video games, computer-generated entertainment and the rise of social media. (WR)
Prerequisite: (Digital Arts and Sciences BA or BS major) or instructor permission.
Attributes: Satisfies 4000 Words of Writing Requirement

DIG 3110C Imaging Processes 3 Credits
Grading Scheme: Letter Grade

DIG 3481C Imaging Processes 3 Credits
Grading Scheme: Letter Grade

DIG 3482C Interactivity/Coding 3 Credits
Grading Scheme: Letter Grade

GRA 2111C Visual Methods and Processes 3 Credits
Grading Scheme: Letter Grade
Emphasizes design process, methodologies and communication theories that foster the relationship between content and meaning. Course includes experiences in visual analysis, symbol conceptualization, figure-ground, spatial concepts and compositional dynamics and an introduction to semiotics, design principles and design methods.
Prerequisite: ART 1803C or provisional Graphic Design certificate students.

GRA 2208C Typography 1: Letterform 3 Credits
Grading Scheme: Letter Grade
Explores the expressive potential of letter form as visual art. Emphasizes shaping and spacing forms into meaningful communications.
Prerequisite: ART 1803C or provisional Graphic Design certificate students.

GRA 3138C Graphic Design Practice 3 Credits
Grading Scheme: Letter Grade
Create and integrate concept, form, processes, and technologies in order to develop systems-based, practice-oriented solutions to a range of problems. The results of research and design work will be synthesized to develop a final presentation and portfolio.
Prerequisite: GRA 2111C and GRA 2208C with grades of B or better and enrollment in the Graphic Design certificate.

GRA 3193C Design: Visualization and Creativity 3 Credits
Grading Scheme: Letter Grade
Creative thinking and form making in design. Emphasizes visual invention and compositional dynamics.
Prerequisite: GRA 2111 and GRA 2202C and Graphics Design major of junior standing or higher.

GRA 3194C Technologies and Processes 3 Credits
Grading Scheme: Letter Grade
Training in tools and materials of graphic design, including printing processes, computer and video processes, photographic and electronic media.
Prerequisite: GRA 3138C and GRA 3193C and and Graphics Design major of junior standing or higher.

GRA 3198C Image, Form and Meaning 3 Credits
Grading Scheme: Letter Grade
Emphasizes development of concepts, metaphors, narratives and visual translations. Projects in line art, screen process, photography, and color.
Prerequisite: GRA 3138C and GRA 3193C and Graphics Design major of junior standing or higher.

GRA 3209C Typography 2: Composition 3 Credits
Grading Scheme: Letter Grade
Explores the visual organization and integration of typographic information with images in printed documents. Emphasizes nomenclature, mechanical processes, design, and historical contexts.
Prerequisite: GRA 2111C and GRA 2208C and Graphics Design major of junior standing or higher.

GRA 3816C Design Thinking 3 Credits
Grading Scheme: Letter Grade
Design thinking is interdisciplinary, human-centered, collaborative, contextual, and iterative. It offers an exceptionally dynamic framework to approach idea generation, creative investigation, and divergent thinking. Learn principles of design thinking through exercises, brainstorming, sketching, case studies, and presentations.
Prerequisite: GRA 2111C and GRA 2208C with minimum grades of B and enrollment in the Graphic Design certificate.

GRA 4186C Senior Design Studio 3 Credits
Grading Scheme: Letter Grade
Emphasizes self-directed design, research and study leading to the development and realization of complex design projects. Public dissemination of final projects.
Prerequisite: GRA 4196C and GRA 4197C.

GRA 4187C Design Workshop 3 Credits
Grading Scheme: Letter Grade
Bridges the study of design and professional practice. Emphasis on practical graphic design issues applied to real-world experiences.
Prerequisite: GRA 4196C and GRA 4197C.

GRA 4196C Design: Ideas and Styles 3 Credits
Grading Scheme: Letter Grade
Special emphasis on history and theories of graphic design including innovations and contemporary issues.
Prerequisite: GRA 3198C and GRA 3194C.

GRA 4197C Graphic Design: Visual Systems in Design 3 Credits
Grading Scheme: Letter Grade
Self-directed complex and integrated design projects.
Prerequisite: GRA 3198C and GRA 3194C.

GRA 4923C Design and Professional Practice Studio 3 Credits
Grading Scheme: Letter Grade
Advanced study in graphic design and professional practices of design in business and multidisciplinary learning experiences. Students repeating this course will have demonstrated excellence during the first semester, been selected for their leadership abilities and assigned advanced roles in the studio environment.
Prerequisite: advanced standing and portfolio review.

GRA 4953C Senior Project in Design 1 Credit
Grading Scheme: Letter Grade
Emphasizes the development of a personal website to showcase the student's professional portfolio, design philosophy and credentials. Students will be required to launch a website with a proprietary URL on a commercial server prior to completing the course. Students are evaluated on the appropriateness and completion level of the website as well as their conceptual, formal and technical development.
Corequisite: GRA 4187C and GRA 4186C.

HUM 2500 A Taste of the Arts: Behind the Scenes 3 Credits
Grading Scheme: Letter Grade
Online course develops basic art vocabulary and aesthetic tools in visual arts, theatre, dance and music. View rehearsals and installations and learn about the back-stage preparations involved in creating arts exhibitions and performances from actors, artists, designers, producers, and other arts professionals. For non-arts majors who want to develop cultural awareness that will accentuate any major and career. (H)
Attributes: General Education - Humanities

HUM 2510 Design for Understanding the Visual and Performing Arts 3 Credits
Grading Scheme: Letter Grade
Analysis of the basic elements and concepts of the visual arts, music, theater, and the dance to establish a fundamental base from which decisions can be made about what one sees, hears, and feels. Understanding, appreciation, and literacy in the arts are developed and are strengthened by participating in arts experiences. (H) (WR)
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

HUM 2511 Basic Fundamentals and Skills in the Visual Arts and Music 3 Credits
Grading Scheme: Letter Grade
Fundamentals of visual arts and of music needed by the classroom teacher for teaching art and music in the elementary school. Students with sufficient background may exempt the course by examination.

IDC 3500C Programming for Artists 3 Credits
Grading Scheme: Letter Grade
Introduces understanding interactivity as an art form, providing an in-depth exploration of the tools, theories and applications of interactive media as they are used for creative inquiry, research and production.
Prerequisite: MAC 1147 and digital media major of junior standing or higher.

PGY 2101C Visual Literacy: Photography 3 Credits
Grading Scheme: Letter Grade
Introduces the practices, theories and histories of photography. Acquisition of basic darkroom skills and key elements of contemporary theoretical approaches to visual art. (H)
Prerequisite: ART 1803C.
Attributes: General Education - Humanities

PGY 2441C Photography: Images, Order and Idea 3 Credits
Grading Scheme: Letter Grade
Use of non-traditional light-sensitive processes to explore aspects of image manipulation.
Prerequisite: PGY 2101C.

PGY 2442C Photography: Figure and Ground 3 Credits
Grading Scheme: Letter Grade
Light and shape aspects of photographic images; theories of space and 2D composition; and basic camera and darkroom techniques.
Prerequisite: PGY 2101C.

PGY 3410C Photography: Color 3 Credits
Grading Scheme: Letter Grade
Consideration of the use and technique of color photography. Covers cameras, films, and darkroom developing techniques.
Prerequisite: PGY 2441C, PGY 2442C, and junior-level art major.

PGY 3444C Photography: Black and White 3 Credits
Grading Scheme: Letter Grade
Fundamentals of photography, operation of the camera and developing, printing, and enlarging. Principles of photography as a means of personal expression.
Prerequisite: PGY 2441C, PGY 2442C, and junior-level art major.

PGY 3820C Photography: Digital 3 Credits
Grading Scheme: Letter Grade
Studio methods and techniques in creating still images using electronic digital technology.
Prerequisite: DIG 2131C, PGY 2441C, PGY 2442C, and junior-level art major.

PGY 4156C Large Format Photography 3 Credits
Grading Scheme: Letter Grade
Advanced study in artificial lighting, color balancing of mixed light sources, view camera techniques to control distortion, focus and painting with light.
Prerequisite: PGY 2441C and PGY 2442C.

PGY 4420C Advanced Photography 6 Credits
Grading Scheme: Letter Grade
Use of the camera as a medium of individual creative expression. Experimental projects in black and white and color photography.
Prerequisite: PGY 3410C, PGY 3421C, PGY 3444C, PGY 3820C, and senior-level art major.

Astronomy and Astrophysics

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AST 1002 Discovering the Universe 3 Credits
Grading Scheme: Letter Grade
An elementary, largely nonmathematical survey of our universe of stars, planets and galaxies. Acquaints the student with the development of astronomy as a human activity with how we know as well as what we know. Primarily for those not majoring in physical science or mathematics. (P)
Attributes: General Education - Physical Science

AST 1022L Astronomy Laboratory 1 Credit
Grading Scheme: Letter Grade
Introduces experimental work in astronomy including scheduled laboratory exercises during the day in the teaching lab and evening observational astronomy at the on campus teaching observatory. (P)
Attributes: General Education - Physical Science

AST 2000 Cosmology 3 Credits
Grading Scheme: Letter Grade
Overview of cosmology, the study of the large-scale structure and history of the universe, in four components: ideas about the universe as a whole predating the twentieth century; ideas from twentieth century physics that impact modern cosmology; stars, black holes, galaxies and quasars as probes of the universe; and the Hot Big Bang Model.

AST 2003 Introduction to the Solar System 3 Credits
Grading Scheme: Letter Grade
Survey of the solar system including the sun, planets, satellites, asteroids, meteorites and comets. (P)
Prerequisite: simple algebra.
Attributes: General Education - Physical Science

AST 2037 Life in the Universe 3 Credits
Grading Scheme: Letter Grade
The origin of life on Earth and the possibility of life elsewhere. A multidisciplinary approach is followed. Conditions for life to form and the likelihood that such conditions may exist elsewhere in the universe are discussed. Also considered are schemes proposed for the search for extraterrestrial intelligence (SETI). (P)
Attributes: General Education - Physical Science

AST 3018 Astronomy and Astrophysics 1 3 Credits
Grading Scheme: Letter Grade
First part of a two part sequence. Survey of astronomy and astrophysics for physical science, engineering or mathematics majors. Covers gravitation, orbits and tides; the Moon's phases and eclipses; light and spectra; the solar system; and a few historical milestones. (P)
Prerequisite: (PHY 2048 or PHY 2060) and (MAC 2311 or MAC 3472).
Corequisite: PHY 2049.
Attributes: General Education - Physical Science

AST 3019 Astronomy and Astrophysics 2 3 Credits
Grading Scheme: Letter Grade
Second part of a two part sequence. Stellar distance determination; spectral classification, magnitudes and the nature of color indices; binary stars; the interstellar medium; the Sun as a star; stellar interiors; star formation and stellar evolution; the structure of the Milky Way; the kinds of galaxies and their properties; groups, clusters and superclusters of galaxies; and cosmology. (P)
Prerequisite: (PHY 2048 or PHY 2060) and (MAC 2311 or MAC 3472).
Corequisite: PHY 2049.
Attributes: General Education - Physical Science

AST 3043 History of Astronomy through Newton 3 Credits
Grading Scheme: Letter Grade
Astronomy from its beginnings through Newton. Emphasis is on the works of Ptolemy, Copernicus, Kepler, Galileo and Newton. (H or P, and N)
Attributes: General Education - Humanities, General Education - International, General Education - Physical Science

AST 3722C Techniques of Observational Astronomy 1 3 Credits
Grading Scheme: Letter Grade
First part of the AST 3722C-4723C sequence. The fundamental principles and techniques used in planning, making, reducing and analyzing modern astronomical observations. Includes classroom lectures and discussion, indoor laboratory work, data analysis and outdoor night observations. Introduces numerical treatment of observations, CCD imaging, digital imaging processing and astronomical spectroscopy.
Corequisite: AST 3018.

AST 4211 Essentials of Astrophysics 3 Credits
Grading Scheme: Letter Grade
Foundation and background on topics in astrophysics, including broadening mechanisms of spectral lines, equations of state of gases, thermodynamics, radiation sources, radiative transport, kinetic theory of gases and stellar structure.
Prerequisite: AST 3018, AST 3019 and a working knowledge of calculus.

AST 4300 Galactic Astronomy 3 Credits
Grading Scheme: Letter Grade
Intensive introduction to the fundamental properties of the Milky Way and its system of satellite galaxies. Course is intended for astronomy majors and natural science students. Topics include the ages, chemical abundances and kinematics of field stars and star clusters, the properties of the interstellar medium and its role in star formation, the dark matter content and models of the Milky Way's physical structure.
Prerequisite: AST 3018, AST 3019 and a working knowledge of calculus.

AST 4402 Galaxies and Cosmology 3 Credits
Grading Scheme: Letter Grade
An investigation into the properties of galaxies and their distribution in space. Some cosmological implications of this distribution are discussed. Intended for astronomy majors and advanced students of other mathematical sciences.
Prerequisite: AST 3018, AST 3019 and a working knowledge of calculus.

AST 4723C Techniques of Observational Astronomy 2 3 Credits
Grading Scheme: Letter Grade
Second part of a sequence. The fundamental principles and techniques used in planning, making, reducing, and analyzing modern astronomical observations. Includes classroom lectures and discussion, indoor laboratory work, data analysis, and outdoor night observations. Introduces numerical treatment of observations, CCD imaging, digital imaging processing, and astronomical spectroscopy.
Prerequisite: AST 3722C.

AST 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Assigned reading or research for qualified undergraduates.
Prerequisite: AST 3018 and AST 3019, or two years of college physics and instructor permission.

AST 4911 Undergraduate Research in Astronomy 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Astronomy. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Astronomy.

AST 4930 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Lecture, seminar or laboratory sessions covering selected topics of current interest in astronomy.
Prerequisite: instructor permission.

Biochemistry and Molecular Biology

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

The department offers a full program of courses for the undergraduate student preparing for advanced degrees in the biological, agricultural and life sciences and for professional school.

The major course offering, BCH 4024, is designed to provide students with a general background in biochemistry and molecular biology for professional school or advanced studies in specialized areas.

The department offers an independent interdisciplinary major in biochemistry and molecular biology, in cooperation with the College of Liberal Arts and Sciences, to those undergraduates with strong interests in cell processes, molecular biology, metabolism or physical or structural biochemistry (See Biochemistry and Molecular Biology entry under Majors).

Undergraduate students in other majors who are interested in a research career in biochemistry and molecular biology should take BCH 4024 as early in their undergraduate program as possible. Students interested in supplementing these didactic course offerings with laboratory research experience can register for BMS 4905 after obtaining department approval. Further information on such research opportunities, advanced study and early admission can be obtained from the undergraduate studies coordinator.

Students with interests in medicine or other health sciences may also choose to enroll in the interdisciplinary major program and should

contact the assistant dean for preprofessional education in the College of Medicine at the end of the sophomore year or at the beginning of the junior year.

Courses

BCH 4024 Introduction to Biochemistry and Molecular Biology 4 Credits
Grading Scheme: Letter Grade
Introduces physical biochemistry, intermediary metabolism and molecular biology. Topics include a survey of structure, chemistry and function of proteins and nucleic acids, enzyme kinetics and mechanisms of catalysis; a survey of the pathways of carbohydrate, lipid and nitrogen metabolism and their metabolic control; regulation of gene expression at the level of DNA, RNA and protein synthesis.
Prerequisite: CHM 2211 or CHM 3217, or instructor permission.

BCH 4905 Biochemistry Senior Research 1-7 Credits
Grading Scheme: Letter Grade
Laboratory investigations of biochemical problems of current interest. Senior thesis required.
Prerequisite: CHM 2210, CHM 2211, and CHM 3217 or the equivalent, BCH 4024 and interdisciplinary major status.

Biology

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

BOT 4650 Plant Symbiosis 3 Credits
Grading Scheme: Letter Grade
Examines the crucial role of symbioses in shaping the diversity of life. Topics include generalities among symbioses, origins and establishment of symbioses, and coevolution and cospeciation, as well as specifics of well-studied exemplars of bacterial, fungal, animal, and plant symbioses with plants.
Prerequisite: BSC 2010 and BSC 2010L and BSC 2011 and BSC 2011L with minimum grades of C.

BOT 4851C Medical and Forensic Plant Biology 3 Credits
Grading Scheme: Letter Grade
Basic plant taxonomy, systematics, phytochemicals, uses of plants by animals and various human cultures, and in the development of modern medicine and drug development. Uses of plant tissues and products in forensic investigations will also be discussed.
Prerequisite: BSC 2011 with a minimum grade of B.

BSC 1920 First Year Introduction: Biology at UF 1 Credit
Grading Scheme: S/U
Introduces the field of biology and the academic resources specific to this discipline at UF. Discussions of the nature and practice of scientific research, laboratory safety, advising and career resources for biologists. Developments in the instructor's area of expertise are used to illustrate key subjects. (S-U)
Prerequisite: biology, botany, zoology or exploring science and engineering majors only.

BSC 2005 Biological Sciences 3 Credits
Grading Scheme: Letter Grade
A comprehensive introduction to living systems, including the scientific basis of biology, cell structure and function, genetic mechanisms, animal and plant anatomy and physiology, and ecology and evolutionary processes. Recommended for students not majoring in the natural sciences. (B)
Attributes: General Education - Biological Science

BSC 2005L Laboratory in Biological Sciences 1 Credit
Grading Scheme: Letter Grade
A laboratory for students who need experience in a nonprofessionally oriented laboratory or for those who need laboratory experience to satisfy requirements for graduation. (B)
Attributes: General Education - Biological Science

BSC 2010 Integrated Principles of Biology 1 3 Credits
Grading Scheme: Letter Grade
General Biology Core: the first of a two-semester sequence that prepares students for advanced biological sciences courses and allied fields. Studies the origin of life systems; of biological molecules and organization of living things at the subcellular, cellular and organismic levels; and of the activities of living forms in obtaining and utilizing energy and materials in growth, maintenance and reproduction. (B)
Prerequisite: Degree-seeking students only.
Attributes: General Education - Biological Science

BSC 2010L Integrated Principles of Biology Laboratory 1 1 Credit
Grading Scheme: Letter Grade
Laboratory experiments designed to accompany BSC 2010. Students should register for BSC 2010 and 2010L concurrently. (B)
Prerequisite: Degree-seeking students only.
Corequisite: BSC 2010 or the equivalent.
Attributes: General Education - Biological Science

BSC 2011 Integrated Principles of Biology 2 3 Credits
Grading Scheme: Letter Grade
General Biology Core: the second of a two-semester sequence that prepares students for advanced biological sciences courses and allied fields. Examination in living things of the principles of information storage, transmission and utilization at the cell, organism and population levels; of the mechanisms of evolutionary change in the diversification of living things and their life styles; of population growth and regulation; and of energy flow and biogeochemical cycling in the biosphere. (B)
Prerequisite: BSC 2010 or the equivalent. Degree-seeking students only.
Attributes: General Education - Biological Science

BSC 2011L Integrated Principles of Biology Laboratory 2 1 Credit
Grading Scheme: Letter Grade
Laboratory experiments designed to accompany BSC 2011. Students should register for BSC 2011 and 2011L concurrently. (B)
Prerequisite: Degree-seeking students only.
Corequisite: BSC 2011 or the equivalent.
Attributes: General Education - Biological Science

BSC 2044L Accelerated, Integrated Principles of Biology Laboratory 2 Credits
Grading Scheme: Letter Grade
A cross-disciplinary, inquiry-based curriculum that focuses on major themes and concepts in biology with an emphasis on their physical and chemical foundations and applications in quantitative research. Equivalent to BSC 2010L and BSC 2011L.
Corequisite: BSC 2010 or the equivalent.

BSC 2862 Global Change Ecology and Sustainability 3 Credits
Grading Scheme: Letter Grade
Examines key issues in sustainability and global environmental change from an ecological perspective. Major themes include impacts of climate change on terrestrial ecological communities; feedback between the terrestrial biosphere and the atmosphere; and implications of climate change for the sustainability of natural and managed ecosystems. (B)
Attributes: General Education - Biological Science

BSC 2930 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Special topics in general biology. (B)

BSC 3096 Human Physiology 3 Credits
Grading Scheme: Letter Grade
Functioning of human tissues, organs and organ systems, emphasizing the physical, chemical and mechanistic bases of normal physiology and the integrated function of the human body. Also introduces pathophysiological changes associated with human diseases.
Prerequisite: (CHM 1031 or CHM 2046 or CHM 2047) and BSC 2011.

BSC 3307C Climate Change Biology 4 Credits
Grading Scheme: Letter Grade
Climate change and its impacts on biological communities, feedbacks from the biosphere to the climate system and human impacts on the carbon cycle. Emphasis on the response of vegetation to climate change and rising atmospheric CO2 concentrations and the role of terrestrial ecosystems in regulating climate via the carbon cycle.
Prerequisite: BSC 2011 and BSC 2011L with minimum grades of C.

BSC 3422C Principles of the Biotechnology Industry 2 Credits
Grading Scheme: Letter Grade
Introduces practices, skills, and careers in the biotechnology industry; provides an applied understanding of regulatory compliance, product development, process development, manufacture, testing, and release-for-sale of biomedical products. Learn the profiles of major departments and participate in simulated departmental roles through lecture and hands-on laboratory applications.
Prerequisite: BSC 2011 and BSC 2011L and CHM 2046 and CHM 2046L.

BSC 3911 Entering Research in Biology 1 Credit
Grading Scheme: Letter Grade
A seminar course to complement a students mentored research experience. Must be taken concurrently with research credits. Students meet weekly to share their research experiences and to get feedback on the progress of their research projects.
Corequisite: BSC 4910 or BOT 4905 or ZOO 4905 or IDH 4912

BSC 4452 Computational Tools for Research in Biology 3 Credits
Grading Scheme: Letter Grade
Introduces computational tools for research: Linux command line, Python scripting, databases. Prepares students to conduct large-scale data analysis on high performance computing resources.
Prerequisite: junior standing or higher.

BSC 4821C Evolutionary Biogeography 3 Credits
Grading Scheme: Letter Grade
How to interpret biological data sets in a biogeographical context. Topics and methods in historical and ecological biogeography are discussed.
Prerequisite: BSC 2011 and BSC 2011L with minimum grades of C.

BSC 4910 Individual Mentored Research in Biology 0-3 Credits
Grading Scheme: Letter Grade
Qualified students work with a supervising instructor on a research project in biology.
Prerequisite: BSC 2010 and BSC 2010L and BSC 2011 and BSC 2011L with minimum grades of C.
Corequisite: BSC 3911.

BSC 4912 Advanced Mentored Research in Biology 0-4 Credits
Grading Scheme: Letter Grade
Advanced students work with a supervising instructor on a research project in biology. May be repeated for full credit.
Prerequisite: BSC 3911 and BSC 4910 with minimum grades of C.

BSC 4930 Special Topics in Biology 1-4 Credits
Grading Scheme: Letter Grade
Special topics of current interest in biology.
Prerequisite: (BSC 2011 and BSC 2011L) or equivalent with minimum grades of C.

BSC 4936 Critical Analysis of Biological Research 2 Credits
Grading Scheme: Letter Grade
Critical analysis of current life sciences research through online discussions of research seminars and peer reviewed scientific publications.
Prerequisite: senior standing in biology, botany or zoology.

BSC 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade

ISC 2400L Cross-Disciplinary Laboratory 1 3 Credits
Grading Scheme: Letter Grade
First course in a two-semester inquiry-based laboratory focusing on major themes and concepts in biology, chemistry and physics with an emphasis on their integrated applications in modern, quantitative research. Satisfies course requirements for BSC 2010L, CHM 2045L and PHY 2053L.
Prerequisite: high school algebra or equivalent. Degree-seeking students only.

ISC 2401L Cross-Disciplinary Laboratory 2 3 Credits
Grading Scheme: Letter Grade
Second course in a two-semester inquiry-based laboratory focusing on major themes and concepts in biology, chemistry and physics with an emphasis on their integrated applications in modern, quantitative research. Satisfies course requirements for BSC 2011L, CHM 2046L and PHY 2054L.
Prerequisite: ISC 2400L and MAC 1147 or equivalent;
Corequisite: BSC 2010 and CHM 2045 or CHM 2047 or CHM 2095.

ISC 3523 Integrative Biomedical Science 3 Credits
Grading Scheme: Letter Grade
Introduces biomedical science as the application of the natural sciences to medicine. Focuses on integration of biological and biochemical sciences, chemical and physical sciences, and social and behavioral sciences in the context of health. Activities promote skills in problem-solving, critical analysis, and quantitative reasoning.
Prerequisite: BSC 2011, and CHM 2211 or CHM 2213 or CHM 3217, and PHY 2048 or PHY 2053 or PHY 2060, and MAC 2311 or STA 2023, and PSY 2012 or SYG 2000.

PCB 3109 Cancer Biology 3 Credits
Grading Scheme: Letter Grade
Introduces the dysregulation of cellular processes in cancer cells including the mechanisms of action of anti-cancer drugs.

PCB 4085 Genetical Ethics 1 Credit
Grading Scheme: Letter Grade
Presentation and critical discussion of new genetic discoveries and discoveries in the context of society. Includes policy, historical, and legal perspectives. Covers responsible conduct of research.
Prerequisite: PCB 3063 or AGR 3303.

PCB 4460 Biodiversity and Ecology Field Immersion 4 Credits
Grading Scheme: Letter Grade
Five-week intensive study of the earths rich biodiversity. Emphasizes comparative study of form and function, and of complexity and diversity in phylogenetic and environmental contexts. Focuses on the study of living organisms in the laboratory and field in diverse habitats. Focal organisms and settings rotate according to instructor and semester.
Prerequisite: BSC 2010, BSC 2010L, BSC 2011 and 2011L.

PCB 4553 Population Genetics 4 Credits
Grading Scheme: Letter Grade
Population and quantitative genetics, including the theory of gene frequency dynamics within and between populations, and deterministic and stochastic processes in evolution.
Prerequisite: BSC 2011 and 2011L with minimum grades of C.

PCB 4917 Molecular Biology Lab Immersion 4 Credits
Grading Scheme: Letter Grade
Perform authentic research employing techniques of molecular biology in an intensive 5 week format. Each semester the instructor chooses a general area of research and set of techniques for projects. Design hypotheses, plan and carry out experiments, and analyze data.
Prerequisite: BSC 2010, BSC 2010L, BSC 2011 and 2011L with minimum grades of B.

ZOO 4405 Sea Turtle Biology and Conservation 3 Credits
Grading Scheme: Letter Grade
Biology of sea turtles and their roles in marine ecosystems, current major issues in sea turtle biology, and challenges in their conservation and management.
Prerequisite: BSC 2010 and BSC 2011 with a minimum grade of C.

Biomedical Engineering

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More Info (http://registrar.ufl.edu/soc)

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Courses

BME 1008 Introduction to Biomedical Engineering 1 Credit
Grading Scheme: Letter Grade
Introduction to and overview of biomedical engineering. Lectures are given by faculty expert in an area of biomedical engineering. The goal is to give beginning students an appreciation for the breadth of the field and to guide them in making curriculum, major and career choices.

BME 1930 Special Topics in Biomedical Engineering 1-4 Credits
Grading Scheme: Letter Grade
Selected topics in biomedical engineering.

BME 3012 Clinically-Inspired Engineering Design 3 Credits
Grading Scheme: Letter Grade
Through exposure to real clinical problems, learn to communicate with medical professionals in order to identify unmet needs, to develop prototypes and initial concepts for clinical problems, and to critically evaluate potential solutions for clinical problems.
Prerequisite: BME 3060 with minimum grade of C;
Corequisite: BME 4409.

BME 3053C Computer Applications for BME 2 Credits
Grading Scheme: Letter Grade
Computer programming lab and lecture utilizes Matlab to analyze biomedical measurements.
Prerequisite: COP 2271 and COP 2271L or equivalent and MAC 2312, with minimum grades of C.

BME 3060 Biomedical Fundamentals 3 Credits
Grading Scheme: Letter Grade
Working specifically within the framework of biomedical engineering applications, provides the engineering fundamentals of the conservation laws of mass, energy, charge, and momentum.
Prerequisite: (CHM 2046 or CHM 2096) and MAC 2313 with minimum grades of C.
Corequisite: PHY 2049, MAP 2302, and BME 1008.

BME 3101 Biomedical Materials 3 Credits
Grading Scheme: Letter Grade
Restoration of physiological function by engineering biomaterials for biological environment, covering principles underlying use and design of medical implants and matrices/scaffolds. Strong emphasis on transition from engineering material to biological tissue, including molecular and cellular interactions with biomaterials, tissue and organ regeneration, and design of intact, biodegradable, and bioreplaceable materials.
Prerequisite: BME 3060 with minimum grade of C and CHM 3217.

BME 3234 Mechanical Behavior of Biological Tissues and Systems 3 Credits
Grading Scheme: Letter Grade
Focuses on understanding the mechanical behavior of biological tissues and systems by evaluating structure-function relationships, stress-strain relationships, and the mechanical complexity of biological systems; introduces the basics of viscoelastic behavior as it applies to biological tissues.
Prerequisite: BME 3060 with minimum grade of C and EGM 2511.

BME 3323L Cellular Engineering Laboratory 3 Credits
Grading Scheme: Letter Grade
The cellular engineering laboratory teaches the fundamentals of cell culture for use in biomedical engineering investigations. Acquire skills in cell culture, quantitative analyses, notebook keeping, report writing, and oral presentation.
Prerequisite: PCB 3713C;
Corequisite: BME 4311 or instructor permission

BME 3508 Biosignals and Systems 3 Credits
Grading Scheme: Letter Grade
Basic theory and techniques of biosignals and systems. Topics include sampling, noise in biological signals, signal averaging of noisy biological signals, Fourier analysis and filtering.
Prerequisite: (EEL 3003 or EEL 3111C) and MAC 2313 with a minimum grade of C.

BME 3941 Internship Experience in Biomedical Engineering 0-3 Credits
Grading Scheme: S/U
Engineering work experience under the supervision of an engineer.
Prerequisite: Biomedical Engineering major.

BME 4160 Magnetic Biomaterials 3 Credits
Grading Scheme: Letter Grade
Consists of classroom lectures on fundamental concepts in magnetism and magnetic micro and nano-materials and their applications in biomedicine. Participants present a critical review of recent literature in the field and lead a group discussion on a specific, recent paper.
Prerequisite: PHY 2048 and CHM 2046 or CHM 2096 with minimum grades of C.

BME 4311 Molecular Biomedical Engineering 3 Credits
Grading Scheme: Letter Grade
Introduces the fundamentals of molecular biology for biomedical engineers. Designed for juniors or seniors majoring in biomedical engineering to learn the nomenclature and current state of knowledge of the eukaryotic cell and its related structures. Topics include protein structure and function, enzymes, the structure and nature of DNA and the cellular structure and function of various cellular organelles. Learn about energy and the function of mitochondria and chloroplast, cellular communication and the function of the extracellular matrix.
Prerequisite: BSC 2010 and (CHM 3217 or CHM 2210) and PCB 3713C with minimum grades of C.

BME 4361 Neural Engineering 3 Credits
Grading Scheme: Letter Grade
Applying engineering to neuroscience; includes such diverse areas as neural tissue engineering, models of neural function, and neural interface technology. Focuses mainly in the context of neural interfaces and prosthetics, from basic neural physiology and models of neural mechanisms to advanced neural interfaces currently in development or produced commercially.
Prerequisite: BME 3508 or EEL 3135.

BME 4409 Quantitative Physiology 3 Credits
Grading Scheme: Letter Grade
A junior/senior level physiology course. Quantitative modeling of organ system physiology of the nervous system, the cardiovascular system and the respiratory system are discussed and students work on quantitative problems.
Prerequisite: PCB 3713C and MAP 2302 and BME 3060 with minimum grades of C.

BME 4503 Biomedical Instrumentation 3 Credits
Grading Scheme: Letter Grade
Covers engineering and medical bases of application, measurement and processing of signals to and from living systems. Biomedical transducers for measurements of movement, biopotentials, pressure, flow, concentrations and temperature are discussed, as well as treatment devices such as ventilators and infusion pumps.
Prerequisite: MAC 2313 and MAP 2302 and PHY 2049 and (EEL 3003 or EEL 3111C) with minimum grades of C.
Corequisite: BME 3508.

BME 4503L Biomedical Instrumentation Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory for BME 4503.
Prerequisite: MAC 2313 and MAP 2302 and PHY 2049 and (EEL 3003 or EEL 3111C) with minimum grades of C.

BME 4531 Medical Imaging 3 Credits
Grading Scheme: Letter Grade
Medical imaging technologies from a biomedical engineering perspective. The physics, mathematics, instrumentation and clinical applications of all common medical imaging modalities, including x-ray radiography, computed tomography (CT), ultrasound imaging, positron emission tomography (PET) and magnetic resonance imaging (MRI) are discussed. Emerging imaging modalities, including optical imaging, fluorescence imaging and photoacoustic imaging are also introduced.
Prerequisite: MAC 2313 and MAP 2302 and PHY 2049 with minimum grades of C.

BME 4621 Biomolecular Thermodynamics and Kinetics 3 Credits
Grading Scheme: Letter Grade
Principles of thermodynamics and kinetics from a biomolecular perspective. The mathematics, analysis, and applications of classical thermodynamics, statistical thermodynamics, and reaction kinetics are introduced in the context of molecular interactions, binding equilibria, metabolism, and biomolecular transport common to living systems.
Prerequisite: CHM 3217 or (CHM 2210 and CHM 2211), with minimum grades of C, and BME 3060 and BME 4311

BME 4632 Biomedical Transport Phenomena 3 Credits
Grading Scheme: Letter Grade
Introduces and applies the concepts of momentum, mass, and thermal energy transport in the context of problems of interest in biomedical sciences and engineering. Macroscopic and microscopic analysis of momentum, mass, and thermal energy transport problems in biomedical systems.
Prerequisite: BME 3060 with minimum grade of C.

BME 4648 Biomaterials for Drug Delivery 3 Credits
Grading Scheme: Letter Grade
Focuses on the principles of engineering controlled release systems, and integrates topics in polymer chemistry, biomaterials, pharmacokinetics/pharmacodynamics, and mass transport phenomena.
Prerequisite: BME 3060 with a minimum grade of C.
Corequisite: BME 4632

BME 4760 Biomedical Data Science 3 Credits
Grading Scheme: Letter Grade
Covers the biomedical applications of data science techniques, which include pre-processing techniques, machine learning data analysis, and data visualization techniques.
Prerequisite: BME 3053C and COP 2271 and COP2271L.

BME 4882 Senior Design, Professionalism and Ethics 1 3 Credits
Grading Scheme: Letter Grade
Design of custom strategies to address real-life issues in the development of biocompatible and biomimetic devices for biotechnology or biomedical applications. Teams work with a client in the development of projects that incorporate various aspects of biomedical engineering including instrumentation, biomechanics, biotransport, tissue engineering and others. Emphasizes formal engineering design principles; overview of intellectual properties, engineering ethics, risk analysis, safety in design and FDA regulations are reviewed. Part 1 focuses on design.
Prerequisite: BME 4503 and BME 4503L and BME 4409 and senior standing.

BME 4883 Senior Design, Professionalism and Ethics 2 3 Credits
Grading Scheme: Letter Grade
Design of custom strategies to address real-life issues in the development of biocompatible and biomimetic devices for biotechnology or biomedical applications. Teams work with a client in the development of projects that incorporate various aspects of biomedical engineering including instrumentation, biomechanics, biotransport, tissue engineering and others. Emphasizes formal engineering design principles; overview of intellectual properties, engineering ethics, risk analysis, safety in design and FDA regulations are reviewed. Part 2 focuses on implementation and testing.
Prerequisite: BME 4503 and BME 4503L and senior standing.

BME 4931 Special Topics in Biomedical Engineering 1-4 Credits
Grading Scheme: Letter Grade
Selected topics in biomedical engineering.

EGN 1935 Special Topics in Freshman Engineering 1-3 Credits
Grading Scheme: Letter Grade
Laboratory, lectures or conferences cover selected topics in engineering.

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGS 1005 Prep for Success 1-4 Credits
Grading Scheme: S/U
Freshman success course that includes academic preparation in calculus, chemistry, student success and technical communications. (S-U)
Prerequisite: EG student.

Botany

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Courses

BCH 3023 Elementary Organic and Biological Chemistry 3 Credits
Grading Scheme: Letter Grade
Elementary organic chemistry and biochemistry for students in the agricultural technical curricula. This is a terminal course and is not part of any sequence.
Prerequisite: CHM 2046 or CHM 2047.

BOT 2010C Introductory Botany 3 Credits
Grading Scheme: Letter Grade
Structures and functions of cells, tissues and organs of flowering plants. Students with credit in BSC 2005 or BSC 2010 cannot register for this course; they should take BOT 2011C. (B)
Attributes: General Education - Biological Science

BOT 2011C Plant Diversity 4 Credits
Grading Scheme: Letter Grade
Survey of major plant groups with regard to structure, life histories and uses accompanied by a laboratory showing the diversity of plants in the world. (B)
Prerequisite: introductory college biology/botany course or the equivalent.
Attributes: General Education - Biological Science

BOT 2710C Practical Plant Taxonomy 3 Credits
Grading Scheme: Letter Grade
Introduces plant taxonomy including principles of systematic botany, nomenclature and classification, but emphasizing identification. Student will be able to identify the common ferns, fern allies, gymnosperms and flowering plants of field and garden.

BOT 2800C Plants in Human Affairs 3 Credits
Grading Scheme: Letter Grade
The role of plants in the development of civilization and the influence of plants on world history, politics, economics and culture. A survey of useful and harmful plants and plant products. (B)
Attributes: General Education - Biological Science

BOT 3151C Local Flora of North Florida 3 Credits
Grading Scheme: Letter Grade
Laboratory observation of the gross features of vascular plants and practice in the use of keys to identify plants. Elementary ecology of principal types of plant communities in northern Florida. Field trips.

BOT 3503 Physiology and Molecular Biology of Plants 3 Credits
Grading Scheme: Letter Grade
The chemical organization, cellular organization, metabolism, nutrition, growth and molecular biology of the higher plants.
Prerequisite: (BOT 2010C or BSC 2005 or BSC 2010) and CHM 2046 and CHM 2046L.
Corequisite: BOT 3503L; laboratory may be taken in subsequent term.

BOT 3503L Physiology and Molecular Biology of Plants Laboratory 2 Credits
Grading Scheme: Letter Grade
Laboratory experiments to accompany BOT 3503.
Corequisite: BOT 3503.

BOT 4053 Practical Experience in Teaching Botany 2 Credits
Grading Scheme: Letter Grade
Participation in teaching one 3000-level botany course with practical experience in instructional procedures, testing and grading, course and laboratory preparation and laboratory assistance.
Prerequisite: generally, senior standing with recommendations from two faculty members, including the course instructor.

BOT 4621 Plant Geography 2 Credits
Grading Scheme: Letter Grade
Patterns in the distribution of plants around the earth and factors that influence plant geography. Topics include similarities of plant communities in different parts of the world, common distribution patterns among individual taxa, and methods for inferring biogeographic history and predicting future changes in plant distribution.
Prerequisite: (BSC 2010 and BSC 2010L and BSC 2011 and BSC 2011L with minimum grades of C) or instructor permission.

BOT 4650 Plant Symbiosis 3 Credits
Grading Scheme: Letter Grade
Examines the crucial role of symbioses in shaping the diversity of life. Topics include generalities among symbioses, origins and establishment of symbioses, and coevolution and cospeciation, as well as specifics of well-studied exemplars of bacterial, fungal, animal, and plant symbioses with plants.
Prerequisite: BSC 2010 and BSC 2010L and BSC 2011 and BSC 2011L with minimum grades of C.

BOT 4905 Individual Studies in Botany 2-4 Credits
Grading Scheme: Letter Grade
Qualified students and an instructor choose a particular problem for study.
Prerequisite: 8 credits of botany.

BOT 4911 Undergraduate Research in Botany 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Botany. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Botany.

BOT 4935 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Special topics in botany.

BOT 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Overseas Studies

PCB 3023 Essential Cell Biology 3 Credits
Grading Scheme: Letter Grade
Introduces the basic concepts of molecular cell biology in prokaryotic and eukaryotic systems including experimental strategies and methodology. This course is intended for those interested in plants.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent.

PCB 3034C Introduction to Ecology 4 Credits
Grading Scheme: Letter Grade
Basic principles of ecology as they apply to environmental problems including major terrestrial and aquatic ecosystems of Florida.
Prerequisite: introductory college biology.

PCB 3601C Plant Ecology 3 Credits
Grading Scheme: Letter Grade
Principles of ecology at scales ranging from individual plants to landscapes. Emphasis is on species, ecosystems and environmental programs in Florida.
Prerequisite: introductory college biology or botany.

Business

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Courses

GEB 2015 Introduction to Business 1 Credit
Grading Scheme: Letter Grade
Introduces the business world by focusing on various disciplines within business and management. Also introduces personal and professional development opportunities that enhance career preparedness.

GEB 2951 Special Projects 1-3 Credits
Grading Scheme: S/U
Projects related to business as approved by the college. (S-U)

GEB 3017 Leading Organizations 4 Credits
Grading Scheme: Letter Grade
Provides a Strategic Foundation for Leadership Practice in a Variety of Professions. Increases the Capacity to Lead With and Without Authority, Across Boundaries, and From Any Political or Organizational Position.
Prerequisite: MAN 3025.

GEB 3035 Effective Career Management in Business 4 Credits
Grading Scheme: Letter Grade
Systematically designed course based on the cognitive information processing theory for career problem solving and decision-making. Delivered via modularized multimedia instructional materials. The course is designed to inform students about career planning and management interventions and to accommodate students at different levels of decidedness about their career aspirations.

GEB 3213 Professional Writing in Business 3 Credits
Grading Scheme: Letter Grade
Teaches business students fundamental written communication skills focusing on those areas central to professional writing in business. (C) (WR)
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

GEB 3218 Professional Speaking in Business 3 Credits
Grading Scheme: Letter Grade
Teaches fundamental oral communication skills necessary for succeeding in a business setting including presentations and speeches, interpersonal skills and interviewing.

GEB 3219 Writing and Speaking in Business 4 Credits
Grading Scheme: Letter Grade
Online content teaches business students the fundamentals of both written and spoken communication, enabling them to express their ideas effectively and efficiently and to prepare them for the demands of the business workspace. (C) (WR)
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

GEB 3373 International Business 4 Credits
Grading Scheme: Letter Grade
Exposes the business environments (culture, politics, laws and economics) encountered in other parts of the world; to the tools and skills necessary to analyze the potential of other countries as locations for production, distribution and marketing; to how managing and integrating international operations in many parts of the world differs from the domestic focus of many business courses; and to the broad perspective required of successful managers working in international business.
Prerequisite: MAN 3025 and MAR 3023.

GEB 3523 Business Case Analysis 2 Credits
Grading Scheme: Letter Grade
Introduces case analysis and prepares students for national and international case competitions.

GEB 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
Reading and/or research in business administration.

GEB 4906 Independent Study 1-4 Credits
Grading Scheme: S/U
Reading and research in business administration. (S-U)

GEB 4911 Undergraduate Research in Business 0-4 Credits
Grading Scheme: Letter Grade
Provides an opportunity for firsthand, supervised research in business. Projects may involve inquiry, design, investigation, scholarship, discovery, or application in business.

GEB 4930 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Variable content provides an opportunity for in-depth study of topics not offered in other courses and topics of special current significance.
Prerequisite: department permission.

GEB 4932 Professional Development Module 2 Credits
Grading Scheme: Letter Grade
Presents techniques for outstanding presentation and public speaking skills. Includes a significant service learning component whereby students apply presentation techniques developed in the classroom via business-oriented instruction in the K-12 school system.

GEB 4941 Internship in Business Administration 1-4 Credits
Grading Scheme: S/U
Applied work in business administration that requires several papers and reports. (S-U)
Prerequisite: undergraduate programs director permission.

GEB 4956 International Studies in Business 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: admission to an approved UF study abroad program and undergraduate programs director permission.

GEB 4970 Honors Thesis 1 Credit
Grading Scheme: S/U
A thesis is required for the awarding of the magna cum laude or summa cum laude designation. To qualify for the thesis option, students will normally have completed 90 semester credits of coursework (exceptions may be made by the honors coordinator of the student's major department) and must have at least the 3.6 grade point average required for magna cum laude designation at the time they enroll. The thesis will be reviewed by at least one faculty member chosen by the honors coordinator from the student's major department. (S-U)
Prerequisite: senior standing and 3.6 UF GPA.

Career Development Program

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Courses

SLS 1501 College Study Skills 1 1-3 Credits
Grading Scheme: Letter Grade
A developmental course designed to assist students who may be having difficulty in their college-level coursework or those who simply wish to improve basic skills essential for college success. The course begins with an individual self-assessment followed by topics such as motivation, time management, active reading, memory, note taking and test taking. Students will also develop a career portfolio for their final lesson.

SLS 2301 Career Planning 1 Credit
Grading Scheme: Letter Grade

SLS 2302 Job Strategies 1 Credit
Grading Scheme: Letter Grade
Interactive course covering all aspects of a successful job search, long-term career planning and success in the professional environment. Enrollment is restricted to juniors and seniors.

Catalan | Spanish and Portuguese Studies

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Courses

CAT 3180 Introduction to Catalan 1 3 Credits
Grading Scheme: Letter Grade
Acquire a working knowledge of the Catalan language and the aspects of Catalan culture and society. No previous experience with Catalan required, although knowledge of another Romance language (through intermediate level) is required.
Prerequisite: completion of second year in another Romance language or instructor permission.

CAT 3182 Introduction to Catalan 2 3 Credits
Grading Scheme: Letter Grade
To expand the linguistic and cultural knowledge acquired in CAT 3180 and to further develop an understanding of Catalan art, culture and society. Emphasis on speaking, listening, reading and writing.
Prerequisite: CAT 3180 or instructor permission.

CAT 3280 Intermediate Catalan 3 Credits
Grading Scheme: Letter Grade
Review and extend knowledge of grammar, vocabulary, culture; develop oral and written skills; begin reading literary works; and consolidate knowledge of Catalan culture.
Prerequisite: CAT 3182 or equivalent.

CAT 3281 Intermediate Catalan 2 3 Credits
Grading Scheme: Letter Grade
Second semester in the intermediate Catalan language and culture sequence, continuing the study of the language and culture of Catalonia with emphasis on linguistic proficiency and cultural knowledge.
Prerequisite: CAT 3180 or equivalent.

Chemical Engineering

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Courses

ABE 2062 Biology for Engineers 3 Credits
Grading Scheme: Letter Grade
Principles and engineering applications of biology. Principles and applications of biochemistry, genetics, microbial systems, animal systems, ecological systems and global systems. (B) (WR)
Attributes: General Education - Biological Science, Satisfies 6000 Words of Writing Requirement

BME 3406 Introduction to Biomolecular Engineering 3 Credits
Grading Scheme: Letter Grade
Introduces chemical engineering students interested in bio-related careers to the chemical engineering discipline. Emphasizes the link between biology and chemical engineering and the interface between them.
Prerequisite: ABE 2062 or ECH 2062.

BME 4220 Biomolecular Cell Mechanics 3 Credits
Grading Scheme: Letter Grade
Covers the biomolecular basis of cell mechanics and cell motility, emphasizing quantitative models and systems-biology approaches.

BME 4321 Dynamics of Cellular Processes 3 Credits
Grading Scheme: Letter Grade
Confocal florescence microscopy, techniques for imaging macromolecular dynamics and interactions inside living cells, models of intracellular diffusion, models of ligand-receptor binding, interplay between binding and transport, modeling and analysis of experiments. Examples from literature include mRNA transport, nuclear pore dynamics, cytoskeletal dynamics, imaging motor proteins and transcription factor dynamics.
Prerequisite: a course on kinetics and/or transport, or instructor permission.

COT 3502 Computer Model Formulation 4 Credits
Grading Scheme: Letter Grade
Solutions of scientific and engineering problems using digital computers. Formulation of models for describing physical processes, numerical analysis and computer programming. (M)
Prerequisite: ECH 3023 and MAP 2302 and MAC 2313.

ECH 3023 Material and Energy Balances 4 Credits
Grading Scheme: Letter Grade
Formulation and solution of material and energy balances utilizing physical/chemical properties of matter as applied to analyzing unit operations systems.
Prerequisite: CHM 2046 or (MAC 2312 and PHY 2048).
Corequisite: PHY 2049, MAC 2313 and MAP 2302.

ECH 3101 Process Thermodynamics 3 Credits
Grading Scheme: Letter Grade
Introduces fundamental principles of classical thermodynamics. Applications to modeling and analysis of physical and chemical processes undergoing change.
Prerequisite: (CHM 4411 or PHY 3513) and COT 3502 and ECH 3264.

ECH 3203 Fluid and Solid Operations 3 Credits
Grading Scheme: Letter Grade
Characteristics of laminar and turbulent flow, mechanical energy balance, flow through packed beds and fluidization of solids, design of pumping systems and piping networks and metering of fluids.
Prerequisite: COT 3502 and ECH 3264.

ECH 3223 Energy Transfer Operations 3 Credits
Grading Scheme: Letter Grade
Steady state conduction in solids and heterogeneous materials, transient conduction, convection heat transfer, heat transfer during boiling and condensation, radiation heat transfer, design of heat-transfer equipment and heat exchange networks.
Prerequisite: COT 3502 and ECH 3264.

ECH 3264 Elementary Transport Phenomena 3 Credits
Grading Scheme: Letter Grade
Flux law and conservation equations of mass, energy and momentum; steady and unsteady states as applied to physical and chemical processing; macroscopic and microscopic analysis.
Prerequisite: ECH 3023 and MAP 2302 and MAC 2313.

ECH 4123 Phase and Chemical Equilibria 3 Credits
Grading Scheme: Letter Grade
Application of thermodynamic principles to systems of variable composition including the study of phase and chemical equilibria.
Prerequisite: ECH 3101 and ECH 3203 and ECH 3223.

ECH 4224L Fluid and Energy Transfer Operations Laboratory 2 Credits
Grading Scheme: Letter Grade
Laboratory work in unit operations involving heat and momentum transfer. (WR)
Prerequisite: ECH 3101 and ECH 3203 and ECH 3223 and ENC 3246.
Corequisite: ECH 4714.
Attributes: Satisfies 6000 Words of Writing Requirement

ECH 4323 Process Control Theory 3 Credits
Grading Scheme: Letter Grade
The analysis and automatic control of process systems in chemical engineering.
Prerequisite: COT 3502 or ECH 3023 or MAP 2302;
Corequisite: ECH 4323L.

ECH 4323L Chemical Engineering Laboratory 5 1 Credit
Grading Scheme: Letter Grade
Laboratory work associated with ECH 4323.
Corequisite: ECH 4323.

ECH 4403 Separation and Mass Transfer Operations 3 Credits
Grading Scheme: Letter Grade
Theory, design, and evaluation of diffusional and staged mass transfer processes including distillation, absorption and extraction, leaching, and membrane separations. Computer-aided design methods.
Prerequisite: ECH 3101 and ECH 3203 and ECH 3223.

ECH 4404L Separation and Mass Transfer Operations Laboratory 2 Credits
Grading Scheme: Letter Grade
Laboratory work in unit operations involving mass transfer. (WR)
Prerequisite: ECH 4403 and ECH 4224L and ECH 4714.
Attributes: Satisfies 6000 Words of Writing Requirement

ECH 4504 Chemical Kinetics and Reactor Design 4 Credits
Grading Scheme: Letter Grade
Homogeneous and heterogeneous reaction kinetic modeling and data analysis. Analysis and design of ideal batch, mixed, plug and recycle reactors. Heterogeneous catalysis and reactor design.
Prerequisite: ECH 3264 and ECH 4123.

ECH 4524 Heterogeneous Chemical Kinetics Reactor Design 2 Credits
Grading Scheme: Letter Grade
Theories of catalytic reactions of adsorbed species at solid surfaces, development or rate expressions with heat and mass transport properties through porous catalyst materials for design of heterogeneous chemical reactors.
Prerequisite: ECH 4504.

ECH 4604 Process Economics and Optimization 3 Credits
Grading Scheme: Letter Grade
Introduces the principles of process economics including specifications and costing of equipment, operations costing and economic evaluation of processes.
Prerequisite: ECH 3203 and ECH 3223;
Corequisite: ECH 4403.

ECH 4644 Process Design 3 Credits
Grading Scheme: Letter Grade
Preliminary design of convention chemical processes including process specifications, sitting and layout, equipment sizing, utility and manpower needs, safety and hazard analysis, environmental considerations and economic evaluation. Planning techniques for detailed engineering, construction and startup.
Prerequisite: ECH 4403 and ECH 4504 and ECH 4604 and ECH 4824.

ECH 4714 Chemical Process Safety 3 Credits
Grading Scheme: Letter Grade
Laboratory and process safety analysis which emphasizes prevention and mitigation. Application of chemical engineering principles to assessing hazards and risk. Integrated with ECH 4224L.

ECH 4824 Materials of Chemical Engineering 2 Credits
Grading Scheme: Letter Grade
Relations between microscopic structure and macroscopic mechanical, thermal and electrical properties of organic and inorganic solids. Engineering applications, including corrosion.
Prerequisite: ECH 4123.

ECH 4827 Processing of Complex Fluids 3 Credits
Grading Scheme: Letter Grade
Principles involved in quantitative adoption of chemical engineering unit operations and unit processes for the analysis and design of systems involving complex fluids.
Prerequisite: (ECH 3203 and ECH 3223 and ECH 4123 and ECH 4824) or instructor permission.

ECH 4905 Special Problems in Chemical Engineering 1-6 Credits
Grading Scheme: Letter Grade
Study of chemical engineering problems identified by the student and instructor.

ECH 4912 Integrated Product and Process Design 1 3 Credits
Grading Scheme: Letter Grade
The first part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic product and processes, on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.
Prerequisite: senior standing.

ECH 4913 Integrated Product and Process Design 2 3 Credits
Grading Scheme: Letter Grade
The second part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic product and processes, on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.
Prerequisite: senior standing.

ECH 4934 Professional Seminar 1 Credit
Grading Scheme: Letter Grade
Discussion of issues associated with development of a professional career in chemical engineering. Topics include ethics presented in a case study format, legal and ethical issues associated with intellectual property, interviewing strategies and presentation skills.
Prerequisite: senior standing.

ECH 4944 Practical Work in Chemical Engineering 1-5 Credits
Grading Scheme: Letter Grade
One term industrial employment, including extra work according a pre-approved outline. Practical engineering work under industrial supervision as set forth in college regulations.
Prerequisite: Engineering major.

ECH 4948 Internship Work Experience 1 Credit
Grading Scheme: S/U
Practical internship work experience under approved industrial supervision, as set forth in college regulations.
Prerequisite: Engineering major.

ECH 4949 Co-op Work Experience 1 Credit
Grading Scheme: S/U
Practical co-op work experience under approved industrial supervision, as set forth in college regulations.
Prerequisite: Engineering major.

EGN 1935 Special Topics in Freshman Engineering 1-3 Credits
Grading Scheme: Letter Grade
Laboratory, lectures or conferences cover selected topics in engineering.

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGS 1005 Prep for Success 1-4 Credits
Grading Scheme: S/U
Freshman success course that includes academic preparation in calculus, chemistry, student success and technical communications. (S-U)
Prerequisite: EG student.

Chemistry

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Introduction to General Chemistry

CHM 1025, a two-credit course, is offered for students who wish to strengthen their understanding of basic concepts of atomic structure and stoichiometry before beginning the general chemistry sequence (CHM 2045/CHM 2045L, CHM 2046/CHM 2046L). A chemistry placement exam is offered online on ONE.UF (https://one.uf.edu). The score achieved determines whether CHM 1025 or CHM 2045 is the appropriate first course in chemistry.

General Chemistry

For placement into the appropriate first course in chemistry, please refer to the Academic Advising section or consult a chemistry advisor. All students should complete their general chemistry studies without interruption.
The following general chemistry offerings are available:

- CHM 1030/CHM 1031 is a terminal sequence that meets preprofessional requirements in the College of Nursing and some majors in the College of Agricultural and Life Sciences.
- CHM 1020 is a terminal general education course that explores chemistry in terms of consumer products. This course meets preprofessional requirements in certain areas of the College of Agricultural and Life Sciences.
- CHM 2045/CHM 2045L and CHM 2046/CHM 2046L is the standard general chemistry sequence. This sequence meets the preprofessional requirement for a broad range of science and engineering majors. Students are presumed to have a good background in high school chemistry and mathematics (through MAC 1147) and are expected to pass the chemistry placement exam offered online on ONE.UF (https://one.uf.edu) before registering for CHM 2045.
- CHM 2047/CHM 2047L is a one-semester program for entering students with strong backgrounds in chemistry, normally reflected by high AP or IB chemistry test scores. This program enables students to move more quickly into advanced work.
- CHM 2051 General Chemistry Honors is offered as an alternative to CHM 2046 for students who have done particularly well in CHM 2045.

Attendance Requirement

Students missing the first session of a laboratory, which includes the required safety instruction, will not be allowed to start late.

Courses

CHM 1020 Chemistry for the Liberal Arts 3 Credits
Grading Scheme: Letter Grade
Provides non-science majors with a basic understanding of the substances and chemical transformations central to our lives. Introduces chemical concepts and principles help the student better understand the role and impact of modern chemistry in society. (P)
Attributes: General Education - Physical Science

CHM 1025 Introduction to Chemistry 2 Credits
Grading Scheme: Letter Grade
Introductory readiness course in general chemistry for those with weak yet satisfactory backgrounds in high school chemistry and algebra. (P)
Corequisite: MAC 1147 or the equivalent.
Attributes: General Education - Physical Science

CHM 1030 Basic Chemistry Concepts and Applications 1 3 Credits
Grading Scheme: Letter Grade
The first half of the CHM 1030/CHM 1031 sequence. A terminal sequence for non-science students that presents chemistry from a medical/nursing perspective. Topics in inorganic chemistry and properties of both ionic and covalent compounds. (P)
Prerequisite: high school algebra.
Attributes: General Education - Physical Science

CHM 1031 Basic Chemistry Concepts and Applications 2 3 Credits
Grading Scheme: Letter Grade
The second half of CHM 1030/CHM 1031 sequence. Topics in organic chemistry and biochemistry. (P)
Prerequisite: CHM 1030.
Attributes: General Education - Physical Science

CHM 2045 General Chemistry 1 3 Credits
Grading Scheme: Letter Grade
The first semester of the CHM 2045/CHM 2045L and CHM 2046/CHM 2046L sequence. Stoichiometry, atomic and molecular structure, the states of matter, reaction rates and equilibria. A minimum grade of C is required to progress to CHM 2046. (P)
Prerequisite: (CHM 1025(C) OR ((ALEKS>=75) AND NOT (CHM 1025<C))) AND (MAC 1147(C) OR (MAC 1140(C) AND MAC 1114(C)) OR MAC 2XXX(C) OR MAC 3XXX or MAC 4XXX)
Attributes: General Education - Physical Science

CHM 2045L General Chemistry 1 Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory experiments designed to reflect the topics presented in CHM 2045. (P)
Prerequisite: (CHM 1025(C) OR ((ALEKS>=75) AND NOT (CHM 1025<C))) AND (MAC 1147(C) OR (MAC 1140(C) AND MAC 1114(C)) OR MAC 2XXX(C) OR MAC 3XXX or MAC 4XXX)
Attributes: General Education - Physical Science

CHM 2046 General Chemistry 2 3 Credits
Grading Scheme: Letter Grade
The second semester of the CHM 2045/CHM 2045L and CHM 2046/CHM 2046L sequence. Students who completed CHM 2045 or equivalent at another institution should consult a chemistry advisor before registering for this course. Acids and bases, additional aspects of chemical equilibria, thermodynamics, electrochemistry, complex ions and descriptive chemistry. (P)
Prerequisite: CHM 2045 with a grade of C or better and [MAC 1147 or (MAC 1140 and MAC 1114) or MAC 2311].
Attributes: General Education - Physical Science

CHM 2046L General Chemistry 2 Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory experiments designed to reflect the topics presented in CHM 2046. (P)
Prerequisite: CHM 2045L AND (MAC 1147 or (MAC 1140 and MAC 1114) or MAC 23##) AND (CHM 2045 or CHM 2095 or CHM 2050).
Attributes: General Education - Physical Science

CHM 2047 One-Semester General Chemistry 4 Credits
Grading Scheme: Letter Grade
Designed for entering (not transfer) students who wish to move more quickly into advanced coursework. Electronic structure and bonding, gases, liquids, solids, kinetics, equilibria, acids and bases, thermodynamics, oxidation-reduction, metals and non-metals.
Prerequisite: AP, IB or high honors high school chemistry courses and a high score on the chemistry placement exam.
Corequisite: CHM 2047L.

CHM 2047L One-Semester General Chemistry Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory experiments designed to accompany CHM 2047.
Corequisite: CHM 2047.

CHM 2051 Honors General Chemistry 2 3 Credits
Grading Scheme: Letter Grade
Second semester of the CHM 2045/CHM 2045L and CHM 2051/CHM 2046L sequence. Open to students with superior performance in CHM 2045 or its equivalent. Acids and bases, additional aspects of chemical equilibria, thermodynamics, electrochemistry, complex ions, descriptive chemistry and instructor-chosen topics. (P)
Prerequisite: CHM 2045, CHM 2045L and instructor permission.
Corequisite: CHM 2046L.
Attributes: General Education - Physical Science

CHM 2054L Accelerated General Chemistry Laboratory 2 Credits
Grading Scheme: Letter Grade
A cross-disciplinary, inquiry-based curriculum that focuses on major themes and concepts in chemistry with an emphasis on their application in modern, quantitative life sciences research. Equivalent to CHM 2045L and CHM 2046L or CHM 2047L.
Prerequisite: ((AP=5 or IB>=6 or CHM 2045(B+)) and (MAC 1147 or (MAC 1140 and MAC 1114) or MAC 23## or ALEKS>=75)) OR CHM 2050(B+) OR CHM 2095(B+)

CHM 2095 Chemistry for Engineers 1 3 Credits
Grading Scheme: Letter Grade
The first semester of the CHM 2095/CHM 2096 sequence. Topics include stoichiometry, energy and thermodynamics, atomic and molecular structure, the states of matter, reaction rates and introduces chemical equilibria. All topics are taught in an engineering case-study context. (P)
Prerequisite: MAC 1147 or the equivalent and a passing grade in CHM 1025 and an Engineering major or a passing score on the chemistry placement exam and an Engineering major;
Corequisite: CHM 2045L.
Attributes: General Education - Physical Science

CHM 2095L Chemistry Lab 1 for Engineers 1 Credit
Grading Scheme: Letter Grade
Laboratory experiments designed to complement CHM 2095.

CHM 2096 Chemistry for Engineers 2 3 Credits
Grading Scheme: Letter Grade
The second course in a two-semester sequence. Topics include chemical equilibria, acid-base and solubility equilibria, entropy, free energy, electrochemical devices, solution dynamics and descriptive inorganic and organic chemistry. All topics are taught in an engineering case-study context. (P)
Prerequisite: CHM 2045 or CHM 2095 with a minimum grade of C.
Attributes: General Education - Physical Science

CHM 2096L Chemistry Lab 2 for Engineers 1 Credit
Grading Scheme: Letter Grade
Laboratory experiments designed to complement CHM2096

CHM 2200 Fundamentals of Organic Chemistry 3 Credits
Grading Scheme: Letter Grade
An elementary course embracing the more important aspects of organic chemistry. Intended for students in programs requiring only one semester of organic chemistry. Not intended for pre-med, pre-dentistry or pre-vet students.
Prerequisite: CHM 2046 or CHM 2047 or CHM 2051 or CHM 2096, or the equivalent.

CHM 2200L Fundamentals of Organic Chemistry Laboratory 1 Credit
Grading Scheme: Letter Grade
Organic laboratory experiments to accompany CHM 2200.
Corequisite: CHM 2200.

CHM 2210 Organic Chemistry 1 3 Credits
Grading Scheme: Letter Grade
The first half of the CHM 2210/CHM 2211 sequence intended for majors and preprofessional students. A study of the structures, syntheses and reactions of organic compounds.
Prerequisite: CHM 2046 or CHM 2096 or CHM 2047 or CHM 2051.

CHM 2211 Organic Chemistry 2 3 Credits
Grading Scheme: Letter Grade
The second half of the CHM 2210/CHM 2211 sequence intended for majors and preprofessional students. A study of the structures, syntheses and reactions of organic compounds.
Prerequisite: CHM 2210 or CHM 2212 with a minimum grade of C;
Corequisite: CHM 2211L.

CHM 2211L Organic Chemistry Laboratory 2 Credits
Grading Scheme: Letter Grade
Organic laboratory experiments designed to accompany CHM 2210/CHM 2211 or CHM 3217/CHM 3218.
Prerequisite: (CHM 2210 or CHM 2212 with a minimum grade of C) or CHM 3217.

CHM 2212 Organic Chemistry 1 for Majors 3 Credits
Grading Scheme: Letter Grade
First half of the CHM 2212/CHM 2213 sequence for chemistry majors. A study of structures, synthesis, and reactions of organic compounds, with emphasis on mechanism and spectroscopy.
Prerequisite: (CHM 2046 or CHM 2047 or CHM 2051 or CHM 2096) and chemistry major.

CHM 2213 Organic Chemistry 2 for Majors 3 Credits
Grading Scheme: Letter Grade
Second half of the CHM 2212/CHM 2213 sequence is for chemistry majors. Study of structures, synthesis, and reactions of organic compounds, with emphasis on mechanism and spectroscopy.
Prerequisite: (CHM 2210 or CHM 2212 with a minimum grade of C) and chemistry major.
Corequisite: CHM 2211L.

CHM 3120 Introduction to Analytical Chemistry 3 Credits
Grading Scheme: Letter Grade
Principles involved in quantitative analysis. Topics include acid-base equilibria and titrations, precipitation and complex formation, oxidation reduction and statistical treatment of data. Introduces spectrochemical and electrochemical methods of analysis and chemical separations.
Prerequisite: (CHM 2046 or CHM 2047 or CHM 2051) and (CHM 2046L or CHM 2047L).

CHM 3120L Analytical Chemistry Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory experiments designed to accompany CHM 3120.
Corequisite: CHM 3120 or equivalent.

CHM 3217 Organic Chemistry/Biochemistry 1 4 Credits
Grading Scheme: Letter Grade
A rigorous, one-semester overview of the structure, properties and reactions of organic compounds. This is the first half of a two-semester sequence in biochemistry. Students are expected to take CHM 3218 after completing CHM 3217.
Prerequisite: (CHM 2046 or CHM 2047 or CHM 2051 or CHM 2096 or CHM 2046C) and (CHM 2046L or CHM 2047L or ISC 2401L).

CHM 3218 Organic Chemistry/Biochemistry 2 4 Credits
Grading Scheme: Letter Grade
Introduces the basic concepts of biochemistry and molecular biology from the structural and mechanistic perspective of organic chemistry.
Prerequisite: CHM 3217 or CHM 2211, or instructor permission.

CHM 3400 Physical Chemistry for the Biosciences 3 Credits
Grading Scheme: Letter Grade
Thermodynamics, electrochemistry, transport, chemical kinetics and molecular structure with emphasis on biological systems.
Prerequisite: (MAC 2312 or MAC 2512 or MAC 3473) and (CHM 2200 or CHM 2210 or CHM 2212), and two semesters of college physics; background in analytical chemistry recommended.

CHM 3610 Inorganic Chemistry 3 Credits
Grading Scheme: Letter Grade
Basic theoretical concepts involved in inorganic chemistry. Periodic trends, chemical bonding, structure and reactivity.
Prerequisite: CHM 2211 or CHM 2213 or CHM 3217.

CHM 3610L Inorganic Chemistry Laboratory 2 Credits
Grading Scheme: Letter Grade
Synthesis and characterization of inorganic and organometallic compounds.
Prerequisite: CHM 2211L and CHM 3120L, or instructor permission.

CHM 4034 Advanced Biochemistry and Chemical Biology 4 Credits
Grading Scheme: Letter Grade
Secondary metabolism and biosynthetic pathways, bioinorganic chemistry, protein folding and trafficking, cellular signaling, replication and translation from a chemist's perspective. Applications in bioanalytical chemistry and in molecular and cell biology.
Prerequisite: CHM 3218 or BCH 4024.

CHM 4130 Instrumental Analysis 3 Credits
Grading Scheme: Letter Grade
Concepts of instrumentation for chemical analysis. In-depth examination of spectrochemical and electrochemical methods and chemical separations.
Prerequisite: (CHM 2211 or CHM 2213 or CHM 3217) and CHM 3120 and (MAC 2312 or MAC 2512 or MAC 3473) and (PHY 2053 or PHY 2048 or PHY 2060).
Corequisite: PHY 2054 or equivalent.

CHM 4130L Instrumental Analysis Laboratory 2 Credits
Grading Scheme: Letter Grade
Laboratory experiments designed to accompany CHM 4130.
Prerequisite: (CHM 2211 or CHM 2213 or CHM 3217) and CHM 3120 and CHM 3120L and (MAC 2312 or MAC 2512 or MAC 3473) and (PHY 2053 or PHY 2048 or PHY 2060).
Corequisite: CHM 4130

CHM 4143C Electronics and Instrumentation 3 Credits
Grading Scheme: Letter Grade
Principles of operation of instrumentation, optimization of instrumental conditions, and interpretation of instrumental data for qualitative and quantitative analysis. Application of electronic principles necessary to code for automated electronic measurements in chemical research.
Prerequisite: CHM 4130, or CHM 3400 and CHM 4413L or permission of instructor.

CHM 4230 Organic Spectroscopy 2 Credits
Grading Scheme: Letter Grade
Characterization and identification of organic compounds by spectral methods including IR, UV, NMR and mass spectrometry.
Prerequisite: CHM 2211 or CHM 2213 or CHM 3217

CHM 4272 The Organic Chemistry of Polymers 2 Credits
Grading Scheme: Letter Grade
Classification of polymerization types and mechanisms from a mechanistic/organic point of view. The structure of synthetic and natural polymers and polyelectrolytes. Reactions of polymers and practical synthetic methods of polymer preparation.
Prerequisite: CHM 2200, CHM 2211, CHM 2213 and CHM 3217, or the equivalent.

CHM 4300L Laboratory in Biochemistry and Molecular Biology 2 Credits
Grading Scheme: Letter Grade
Introduces experimental techniques in biochemistry, especially those used in DNA isolation and manipulation, protein purification and enzyme kinetic studies.
Prerequisite: CHM 2211L and either CHM 3218, or CHM 2211 and BCH 4024.

CHM 4304 Chemical Aspects of Cellular Control 3 Credits
Grading Scheme: Letter Grade
Control of information, materials and energy within cellular systems. Examples taken from the biochemistry of plants, bacteria and higher organisms.
Prerequisite: (CHM 3218 or CHM 2211) and BCH 4024.

CHM 4308 Introduction to Enzyme Mechanism 3 Credits
Grading Scheme: Letter Grade
Principles of enzyme structure, isolation and purification and principles of the physical chemistry of enzyme/substrate interactions. Overview of concepts of biological catalysis, including transition state theory, descriptions and examples of mechanisms of biochemical catalysis, survey of co-factors, and catalytic antibodies, ribozyme structure and catalysis.
Prerequisite: BCH 4024 or CHM 3218;
Corequisite: CHM 3400 or CHM 4411.

CHM 4411 Physical Chemistry: Thermodynamics and Kinetics 4 Credits
Grading Scheme: Letter Grade
Gas laws, kinetic theory, classical and statistical thermodynamics and applications to solutions, phase equilibria, chemical equilibria and electrochemistry.
Prerequisite: one year of general chemistry and one year of physics;
Corequisite: MAC 2313; background in analytical and organic chemistry recommended.

CHM 4411L Physical Chemistry Laboratory 2 Credits
Grading Scheme: Letter Grade
A series of laboratory experiments designed to accompany CHM 4411.
Prerequisite: CHM 3120L;
Corequisite: CHM 4411.

CHM 4412 Physical Chemistry: Chemical Bonding and Spectroscopy 4 Credits
Grading Scheme: Letter Grade
Introduces quantum theory, atomic and molecular structure, chemical bonding and spectra, chemical reaction rate laws and mechanisms, and statistical and collision theories of reaction rates.
Prerequisite: (CHM 2046 or CHM 2046C or CHM 2047 or CHM 2051 or CHM 2096) and (PHY 2049 or PHY 2054 or PHY 2061).
Corequisite: MAC 2313.

CHM 4413L Biophysical Chemistry Laboratory 2 Credits
Grading Scheme: Letter Grade
Laboratory experiments to demonstrate basic concepts of the physical chemistry of biological systems.
Prerequisite: CHM 2211L and CHM 3120L;
Corequisite: CHM 3400.

CHM 4611 Advanced Inorganic Chemistry 3 Credits
Grading Scheme: Letter Grade
Introduces advanced concepts of modern inorganic chemistry. Major themes include application of group theory to structure and bonding, molecular orbital treatment of reactivity, fundamental organometallic chemistry and introduces vibrational and electronic spectroscopy.
Prerequisite: CHM 3120 and CHM 3610;
Corequisite: CHM 4412.

CHM 4671 Bioinorganic Chemistry 3 Credits
Grading Scheme: Letter Grade
From an inorganic perspective, introduces the structure and function of a variety of metalloproteins and metalloenzymes, concentrating on systems containing transition metals. Emphasizes the role that metal ion(s) play in the function of the biomolecules.
Prerequisite: CHM 3610 and (CHM 3218 or BCH 4024).

CHM 4905 Individual Problems 1-3 Credits
Grading Scheme: Letter Grade
Double registration permitted. An assigned reading program or development of an assigned experimental problem.
Prerequisite: permission of faculty member supervising the work.

CHM 4910 Undergraduate Research 0-3 Credits
Grading Scheme: Letter Grade
Laboratory or literature investigations of chemical problems of current interest.
Prerequisite: permission of faculty member supervising the work.

CHM 4930 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Special Topics

CHM 4940 Supervised Teaching 1-2 Credits
Grading Scheme: Letter Grade
Supervised teaching, usually at the general chemistry level. Required is a superior record at UF in the course in which the student will assist and evidence that the student's own progress will not be delayed.
Prerequisite: instructor permission.

CHM 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade

IDH 3931 Interdisciplinary Junior Honors 1-3 Credits
Grading Scheme: Letter Grade
Special topics restricted to those in the university-wide honors program. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

ISC 2400L Cross-Disciplinary Laboratory 1 3 Credits
Grading Scheme: Letter Grade
First course in a two-semester inquiry-based laboratory focusing on major themes and concepts in biology, chemistry and physics with an emphasis on their integrated applications in modern, quantitative research. Satisfies course requirements for BSC 2010L, CHM 2045L and PHY 2053L.
Prerequisite: high school algebra or equivalent. Degree-seeking students only.

ISC 2401L Cross-Disciplinary Laboratory 2 3 Credits
Grading Scheme: Letter Grade
Second course in a two-semester inquiry-based laboratory focusing on major themes and concepts in biology, chemistry and physics with an emphasis on their integrated applications in modern, quantitative research. Satisfies course requirements for BSC 2011L, CHM 2046L and PHY 2054L.
Prerequisite: ISC 2400L and MAC 1147 or equivalent;
Corequisite: BSC 2010 and CHM 2045 or CHM 2047 or CHM 2095.

ISC 3523C Research Methods 3 Credits
Grading Scheme: Letter Grade
The tools scientists use to solve scientific problems, including use of experiments to answer scientific questions, design of experiments to reduce systematic and random errors, use of statistics to interpret experimental results and deal with sampling errors, mathematical modeling of scientific phenomena and oral presentation of scientific work.
Prerequisite: UFTeach Step 1 and one year of college biology, chemistry or physics.

Chinese | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

CHI 1130 Beginning Chinese 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing. Materials are designed for learners with no prior exposure to the language. Those with native background or education for four years or more in a Chinese speaking country must take a placement test before enrolling in any Chinese language class.

CHI 1131 Beginning Chinese 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: CHI 1130 with minimum grade of C, or S, or the equivalent.

CHI 2230 Intermediate Chinese 1 5 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: CHI 1131 with minimum grade of C, or S, or the equivalent.

CHI 2231 Intermediate Chinese 2 5 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: CHI 2230 with minimum grade of C, or S, or the equivalent.

CHI 2340 Chinese for Heritage Learners 1 4 Credits
Grading Scheme: Letter Grade
For those with significant bilingual speaking and listening backgrounds. Emphasis is on recognition of the characters and writing, and pronunciation and speaking.

CHI 2341 Chinese for Heritage Learners 2 4 Credits
Grading Scheme: Letter Grade
To consolidate the foundation built in Chinese for Heritage Learners 1, to expand vocabulary and to introduce more complex grammatical structures. Emphasis is on reading and writing. Those who successfully complete CHI 2341 are eligible for CHI 3410.

CHI 3403 Chinese Calligraphy 3 Credits
Grading Scheme: Letter Grade
Introductory study of the origin, composition, development, variations and aesthetic styles of Chinese characters with laboratory sessions for appreciating and practicing calligraphic skills. (H and N)
Prerequisite: (CHI 2231 or JPN 2231 or CHI 3410 or JPN 3410 or CHI 3411 or JPN 3411 or CHW 4120 or CHW 4130 or CHW 4140 or JPW 4130 or JPW 4131) or instructor permission.
Attributes: General Education - Humanities, General Education - International

CHI 3410 Advanced Chinese 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures. (S and N)
Prerequisite: CHI 2231 with minimum grade of C, or S, or the equivalent.
Attributes: General Education - International, General Education - Social Science

CHI 3411 Advanced Chinese 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study of the four skills with attention to more complex structures. (S and N)
Prerequisite: CHI 3410 with minimum grade of C, or S, or the equivalent.
Attributes: General Education - International, General Education - Social Science

CHI 3440 Business Chinese 3 Credits
Grading Scheme: Letter Grade
Development of language skills and protocol issues used in Chinese business environments. Acquire vocabulary, phrases, and sentence patterns essential for business transactions and develop oral presentations, business cards, and resumes.
Prerequisite: completion of second-year Chinese required, or by permission.

CHI 4050 Fourth Year Chinese 1 3 Credits
Grading Scheme: Letter Grade
Introduces and analyzes the documentary prose style used in Chinese newspapers and media. By studying a variety of short texts students develop skill in listening, speaking, reading and writing about issues commonly encountered in Chinese newspaper editorials and in television news programs, debate roundtables, or TV documentaries.
Prerequisite: CHI 3411 or equivalent with a minimum grade of C.

CHI 4051 Fourth Year Chinese 2 3 Credits
Grading Scheme: Letter Grade
Solidifies and improves students' knowledge of advanced Chinese through literature as a continuation of CHI 4050. Emphasizes formulating strategies to learn the difference between written language and spoken language and approaches meaningful writing with an eye toward careful examination of authentic writing samples.
Prerequisite: CHI 4050

CHI 4850 Structure of Chinese 3 Credits
Grading Scheme: Letter Grade
Introduction to phonological, grammatical and discourse structures of Mandarin Chinese, with an emphasis on its contrastive aspects with the English language. (S and N)
Prerequisite: CHI 1131 with minimum grade of C or LIN 3010, or instructor permission.
Attributes: General Education - International, General Education - Social Science

CHI 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course. Includes all individual study courses offered by the Chinese section.

CHI 4911 Undergraduate Research in Language or Linguistics 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Language or Linguistics. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Language or Linguistics.

CHI 4930 Special Topics in Chinese Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in Chinese studies.

CHI 4935 Senior Thesis 3 Credits
Grading Scheme: Letter Grade
Select a Chinese faculty member to act as director for an independent research project that culminates in the preparation of an honors thesis.
Prerequisite: minimum 3.5 GPA and instructor permission.

CHI 4940 Internship 1-6 Credits
Grading Scheme: Letter Grade
Gain practical experience that enhances classroom learning.

CHI 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade

CHT 3110 Chinese Literary Heritage 3 Credits
Grading Scheme: Letter Grade
Introduces pre-modern Chinese literature in translation. Topics chosen from classical poetry, short stories, novels and drama. Emphasis is on the interplay between orthodox values and the folk tradition. All readings in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

CHT 3123 Pre-Modern Chinese Fiction in Translation 3 Credits
Grading Scheme: Letter Grade
Pre-modern Chinese narrative from its philosophical and historical origins to the fiction at the turn of the 20th century. Emphasizes the 16th and 17th centuries when Chinese vernacular fiction flourished. (H and N)
Attributes: General Education - Humanities, General Education - International

CHT 3124 Modern Chinese Fiction in Translation 3 Credits
Grading Scheme: Letter Grade
A survey of modern Chinese fiction in translation. Samples are from the early 20th century through the contemporary era and include writers of the early Republic, the P.R.C. and Taiwan. Focus is on fiction as a vehicle for social change. All readings in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

CHT 3391 Chinese Film and Media 4 Credits
Grading Scheme: Letter Grade
Examination of Chinese cinema and other forms of media such as television, music and print culture in a broad sociopolitical and historical context. An interdisciplinary approach with a diversity of readings and multimedia tools incorporated into discussions.
Prerequisite: One ENG, CHI, CHT, or CHW course, or instructor permission.

CHT 3500 Chinese Culture 3 Credits
Grading Scheme: Letter Grade
Introduction to Chinese culture with emphasis on its philosophy, language, society, art and people as a whole. All readings in English. (H and N)
Attributes: General Education - Humanities, General Education - International

CHT 3513 Taoism and Chinese Culture 3 Credits
Grading Scheme: Letter Grade
Introduction to the general history and culture of Taoism in ancient and modern China: its thoughts, belief systems, cultural influences, practices and rituals.

CHT 3523 Hong Kong, Taiwan, and the New Global Cinema 4 Credits
Grading Scheme: Letter Grade
Overview of Sinophone film in Hong Kong, Taiwan, and the broader sphere of Chinese diaspora. Addresses film history, culture, and aesthetics.
Prerequisite: CHI 1130 or ENG 1400 or ENG 2300 or instructor permission.

CHT 4111 Dream of the Red Chamber 3 Credits
Grading Scheme: Letter Grade
Explores the intellectual and social life of traditional China through the 18th century epic novel, Story of the Stone. Also studies interpretive theories of the novel, both Chinese and Western. All readings are in English. (H and N OR S and N) (WR)
Prerequisite: CHI 3500 or CHT 3110, or instructor permission.
Attributes: General Education - Humanities, General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

CHT 4603 Journey to the West 3 Credits
Grading Scheme: Letter Grade
Exploration of traditional Chinese religious culture, cultural history and literacy expression through a 100 chapter novel known as Journey to the West, or Monkey.
Prerequisite: one course in Chinese culture or instructor permission.

CHT 4911 Undergraduate Research in English Translation 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in English Translation. Projects may involve inquiry, design, investigation, scholarship, discovery or application in English Translation.

CHW 4120 Classical Chinese 1 3 Credits
Grading Scheme: Letter Grade
Introduction to classical Chinese prose with texts drawn mainly from early histories and philosophical writings (500 BC - AD 100). Emphasis on reading comprehension, grammar analysis and translation.
Prerequisite: CHI 2231 with minimum grade of C or instructor permission.

CHW 4121 Classical Chinese 2 3 Credits
Grading Scheme: Letter Grade
Continuation of CHW 4120 focusing on classical Chinese prose with texts drawn from early historical and philosophical texts to belles lettres of the medieval era and later periods. Emphasis on reading comprehension, grammar analysis and translation.
Prerequisite: CHW 4120 or instructor permission.

CHW 4130 Readings in Chinese Literature 3 Credits
Grading Scheme: Letter Grade
Introduces advanced language students to a sampling of Chinese writers. Materials chosen from classic or modern/contemporary Chinese literature rotated across semesters. All readings in Chinese. (H and N)
Prerequisite: CHI 3410 or the equivalent.
Attributes: General Education - Humanities, General Education - International

CHW 4140 Newspaper Chinese 3 Credits
Grading Scheme: Letter Grade
Development of ability to understand and translate the documentary prose style used in Chinese newspapers and academic journals. Introduces literary function words and grammar structures, with comparison to the vernacular. Most readings in the simplified character form used in the PRC; all readings in Chinese. Applications for research on modern China.
Prerequisite: CHI 3410 or instructor permission.

CHW 4911 Undergraduate Research in Target Language 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery or application.

Civil and Coastal Engineering

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

CCE 4015 Civil Engineering Estimating 3 Credits
Grading Scheme: Letter Grade
Design of systems for estimating and cost control of man-machine productivity for civil engineering projects. Analysis of cost factors required for optimization of engineering-investment efficiency.
Prerequisite: CCE 4204 and engineering major of junior standing or higher.

CCE 4204 Construction Equipment, Methods and Management 3 Credits
Grading Scheme: Letter Grade
Theory and practice of construction operations, equipment utilization and construction methods. Analysis of costs. Optimizing crew and equipment. Heavy equipment costs. New emphasis on planning and executing a construction project.
Prerequisite: junior standing or higher or instructor permission.
Corequisite: CGN 4101.

CCE 4811 Construction Engineering Design 3 Credits
Grading Scheme: Letter Grade
Simulation of comprehensive construction project involving all phases of planning, scheduling and control from start to finish, which involves making major decisions. Oral presentation at the end of course.
Prerequisite: CGN 4160 and (CGN 4101 or EIN 3354).

CEG 4011 Soil Mechanics 4 Credits
Grading Scheme: Letter Grade
Physical properties of soils, compaction, flow of water through soil, distribution of stress within soil and consolidation. Laboratory.
Prerequisite: EGM 3520.

CEG 4012 Geotechnical Engineering 3 Credits
Grading Scheme: Letter Grade
Subsurface exploration settlements analysis, slope stability, earth pressure and an introduction to foundation design.
Prerequisite: CEG 4011.

CEG 4104 Retaining Wall and Embankment Design 3 Credits
Grading Scheme: Letter Grade
The application of soil mechanics to the design and analysis of various types of retaining structures and earthen embankments.
Prerequisite: CEG 4012.

CEG 4111 Foundation Engineering Design 3 Credits
Grading Scheme: Letter Grade
Comprehensive design of geotechnical system, focusing on design of complete project and utilizing CAD programs. Designs, drawings and oral presentations through group effort.
Prerequisite: CEG 4012.

CES 3102 Mechanics of Engineering Structures 4 Credits
Grading Scheme: Letter Grade
Introduces structural load, equilibrium, shear and bending moment diagrams, structural analysis software, classical methods for displacement determination, method of consistent deformations, slope deflection method, moment distribution method.
Prerequisite: EGM 3520.

CES 4141 Matrix Structural Analysis 3 Credits
Grading Scheme: Letter Grade
Determining structural loads, solving matrix equations, direct stiffness method, formulation of element matrices, transformations, modeling realistic frame and truss systems, introduces the finite element method, determining convergence, interpretation of results, model validation.
Prerequisite: (CES 3102 and CGN 3421 and Engineering major) or instructor permission.

CES 4605 Analysis and Design in Steel 3 Credits
Grading Scheme: Letter Grade
Elastic and plastic theories of design, design of members subjected to tension, compression, flexure and torsion. Design of connections and rigid frames.
Prerequisite: CES 3102 and CGN 3501C and Engineering major.

CES 4608 Advanced Steel Design 3 Credits
Grading Scheme: Letter Grade
Advanced topics in the design of steel structural building systems, advanced column and beam design, base plate design, moment amplification, second-order analysis, bracing considerations, beam-columns, interaction equations, connection design, composite design, plate girders.
Prerequisite: CES 4605 and Engineering major.

CES 4702 Analysis and Design in Reinforced Concrete 3 Credits
Grading Scheme: Letter Grade
Ultimate strength analysis and design of reinforced beams and columns, working stress design for flexure, design of footings and retaining walls.
Prerequisite: CES 3102 and CGN 3501C and Engineering major.

CES 4704 Advanced Reinforced Concrete Design 3 Credits
Grading Scheme: Letter Grade
Advanced topics in the design of concrete building systems. Long columns and frames, floor and roof systems, including two-way slabs, continuous beams, spandrel beams, torsion, foundations, introduces pre-stressed concrete.
Prerequisite: CES 4702 and Engineering major.

CGN 2002 Introduction to Civil Engineering 1 Credit
Grading Scheme: Letter Grade
Introduces the broad field of civil engineering.

CGN 2328 Technical Drawing and Visualization 3 Credits
Grading Scheme: Letter Grade
Two- and three-dimensional graphical methods of visualizing and communicating features of projects for construction involving parcel boundaries, topography, drainage, site modeling, site development, structures, buildings and objects using both traditional and computer-aided drafting and design techniques.
Prerequisite: minimum 2EG classification.

CGN 3421 Computer Methods in Civil Engineering 3 Credits
Grading Scheme: Letter Grade
Review of computer programming. Numerical methods as applied to civil engineering problems and civil engineering software.
Prerequisite: COP 2271

CGN 3501C Civil Engineering Materials 4 Credits
Grading Scheme: Letter Grade
Studies the principal materials used for engineering purposes with special attention to mechanical properties and their importance to the engineer. Hands-on experience in testing of civil engineering materials.
Corequisite: EGM 3520.

CGN 3510 Introduction to Sustainable Engineering 3 Credits
Grading Scheme: Letter Grade
Overview of the principles of sustainability as they relate to civil and environmental engineering issues. Discussions and projects facilitate a basic understanding of the production-consumption model and life cycle assessment.
Prerequisite: Engineering major.

CGN 3710 Experimentation and Instrumentation in Civil Engineering 3 Credits
Grading Scheme: Letter Grade
Fundamentals and applications of measuring systems commonly used in civil engineering. Topics include recording techniques, strain, force, displacement, flow, temperature, humidity and PH measurements.
Prerequisite: PHY 2049.

CGN 4101 Civil Engineering Cost Analysis 3 Credits
Grading Scheme: Letter Grade
Analysis of civil engineering proposals, utilizing time-value and related factors. Feasibility and optimum life comparisons. Utility rate derivation, utility/cost method.
Prerequisite: 3EG classification or instructor permission.

CGN 4160 Civil Engineering Practice 3 Credits
Grading Scheme: Letter Grade
Fundamentals of civil engineering professional practice: project management, construction delivery processes, business concepts, public policy, administration and leadership.
Prerequisite: EGM 2511 or equivalent.
Corequisite: CGN 2328.

CGN 4503 Pavement Design 3 Credits
Grading Scheme: Letter Grade
Function and material requirements of different elements of flexible and rigid pavement systems; characterization of soils, materials, traffic loads, and environment for design; flexible and rigid pavement design; new developments.
Prerequisite: CGN 3501C.

CGN 4600 Public Works Engineering and Management Practices 3 Credits
Grading Scheme: Letter Grade
Public works profession, organization, administration and management of operating divisions with emphasis on role of engineer.

CGN 4806 Transportation-Water-Materials Design 3 Credits
Grading Scheme: Letter Grade
Simulation of a design project experience through the completion and presentation of a comprehensive roadway project design. Students work in multi-disciplinary groups to complete a system design that includes traffic, materials, hydrologic and geotechnical considerations.
Prerequisite: senior standing.

CGN 4905 Special Problems in Civil Engineering 1-4 Credits
Grading Scheme: Letter Grade
Selected problems or projects in the student's major field of engineering study.
Prerequisite: undergraduate coordinator permission.

CGN 4910 Structures-Geotechnical-Construction Comprehensive System Design 3 Credits
Grading Scheme: Letter Grade
Simulation of a design office experience through the completion and presentation of a comprehensive building design. Students work in multi-disciplinary groups to complete a system design that includes structural, geotechnical and construction management considerations.
Prerequisite: instructor permission.

CGN 4949 Co-op Work Experience 1 Credit
Grading Scheme: S/U
Co-op work experience in a related field.
Prerequisite: Engineering major.

CWR 3201 Hydrodynamics 4 Credits
Grading Scheme: Letter Grade
Classification and properties of fluids, hydrostatics, and conservation of mass, momentum and energy in fluid flow. Potential flow, similitude and physical modeling. Laminar and turbulent pipe flow. Introduces turbomachines.
Prerequisite: EGM 3400 and MAP 2302.

CWR 4114 Surface Hydrology 3 Credits
Grading Scheme: Letter Grade
Occurrence and distribution of water by natural processes, including atmospheric thermodynamics, precipitation, runoff, infiltration, water losses, flood routing and catchment characteristics, analysis and methods of runoff prediction.
Prerequisite: CWR 4202.

CWR 4120 Groundwater 3 Credits
Grading Scheme: Letter Grade
Introduces groundwater hydraulics, including hydrologic cycle, Darcy's equation, Dupuit assumption, well hydraulics, regional flow, freshwater-saltwater interface, flow in the unsaturated zone, fate and transport of contaminants and contaminant plume model.
Prerequisite: CWR 4202.

CWR 4202 Hydraulics 3 Credits
Grading Scheme: Letter Grade
Fundamental equations for pipe and open conduit flow. Development of design oriented formulas for pipes and open channels. Introduces hydrology.
Prerequisite: CWR 3201 or instructor permission.

CWR 4306 Urban Stormwater Systems Design 3 Credits
Grading Scheme: Letter Grade
Surface-water system design including: time of concentration, peak runoff rate, open-channel flow, gravity storm sewer, culvert, stormwater pumping, filtration systems, hydrograph generation, flood routing, site layout, site grading and permitting.
Corequisite: CWR 4202.

CWR 4542 Water Resources Engineering 3 Credits
Grading Scheme: Letter Grade
Study of water resources engineering applications including hydrology and statistics, groundwater, hydraulic machinery, dams and reservoirs, water quality, water quality modeling, water and waste-water treatment and water law and institutions.
Prerequisite: CWR 4202.

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGS 1005 Prep for Success 1-4 Credits
Grading Scheme: S/U
Freshman success course that includes academic preparation in calculus, chemistry, student success and technical communications. (S-U)
Prerequisite: EG student.

ENV 4514C Water and Wastewater Treatment 3 Credits
Grading Scheme: Letter Grade
Design of water and wastewater treatment units.

OCE 3016 Introduction to Coastal and Oceanographic Engineering 3 Credits
Grading Scheme: Letter Grade
Introduces important coastal and oceanographic processes. Geophysical fluid motions; waves and tides; air-sea interaction; pollutant transport; coastal hydraulic and sedimentary processes. Not intended for engineering majors.

TTE 4004C Transportation Engineering 4 Credits
Grading Scheme: Letter Grade
Overview of the significance of highway transportation to the social and economic underpinnings of society. Introduces road vehicle performance, geometric design of highways, traffic flow and queuing theory, highway capacity and level of service analysis, traffic control and analysis at signalized intersections, and travel demand and traffic forecasting.
Prerequisite: 3EG classification.

TTE 4106 Urban Transportation Planning 3 Credits
Grading Scheme: Letter Grade
Overview of the four-step urban transportation planning process; includes analytical techniques for estimating future travel demand and state-of-the-art approaches.
Prerequisite: TTE 4004C.

TTE 4201 Traffic Engineering 3 Credits
Grading Scheme: Letter Grade
General review of the fundamentals of traffic engineering with emphasis on field studies and data analysis.
Prerequisite: TTE 4004C.

TTE 4203 Highway Capacity Analysis 3 Credits
Grading Scheme: Letter Grade
Provide students with detailed instruction on the procedures defined within the 2010 Highway Capacity Manual (HCM), including analytical chapters for uninterrupted and interrupted flow.
Prerequisite: TTE 4004C.

TTE 4300 Transportation Systems Analysis 3 Credits
Grading Scheme: Letter Grade
Systems analysis in transportation planning and engineering, including supply, demand, equilibrium, evaluation and decision analysis.
Prerequisite: TTE 4004C.

TTE 4824 Transportation Facility Design 3 Credits
Grading Scheme: Letter Grade
Simulates a comprehensive design of a transportation facility, specifically an arterial-freeway interchange. Utilizes state and national-level design manuals in preparation of standard plans. Applies the theoretical background gained in supporting classes, in areas such as traffic analysis, roadway design, roadway drainage and pavement design. Some review of this material is provided, as well as introduction of several new concepts. Emphasizes teamwork skills and technical communication skills.
Prerequisite: SUR 4201 and TTE 4004C.

Classics

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Courses

CLA 2100 The Glory That Was Greece 3 Credits
Grading Scheme: Letter Grade
A broad cultural view of the classical Greek world. Greek sources are read in translation. (H and N)
Attributes: General Education - Humanities, General Education - International

CLA 2120 The Grandeur That Was Rome 3 Credits
Grading Scheme: Letter Grade
Provides a multi-faceted introduction to the culture of Rome. Primary source material is read in translation. (H and N)
Attributes: General Education - Humanities, General Education - International

CLA 2521 Classical Antiquity and Sustainability 3 Credits
Grading Scheme: Letter Grade
Examines classical antiquity, applying methods and theories of sustainability to explore the impact of the ancient Greeks and Romans on their environment and focusing on the distribution of wealth, social stratification, land use and classical representations of the natural world. (H)
Attributes: General Education - Humanities

CLA 3111 Athens in Topography and Monuments 3 Credits
Grading Scheme: Letter Grade
Explores the topography and monuments of ancient Athens to understand social, historical, economic and religious institutions.
Attributes: General Education - Humanities, General Education - International

CLA 3114 Greece Today and Yesterday 3 Credits
Grading Scheme: Letter Grade
An interdisciplinary course examining various aspects of ancient and modern Greek life and culture. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

CLA 3151 Pompeii: An Archaeological Laboratory 3 Credits
Grading Scheme: Letter Grade
Studies the material remains of a Roman town through an examination of the excavated finds: architecture, wall-paintings and inscriptions. (H and N)
Attributes: General Education - Humanities, General Education - International

CLA 3160 Ancient Egypt 3 Credits
Grading Scheme: Letter Grade
Studies the civilization, culture and monuments of ancient Egypt from prehistoric times to the New Kingdom and Late period. (H and N)
Attributes: General Education - Humanities, General Education - International

CLA 3161 Introduction to Hieroglyphics 3 Credits
Grading Scheme: Letter Grade
A beginner's course in Egyptian hieroglyphics of the Middle Kingdom. Also designed for students with no former instruction in ancient languages.
Prerequisite: CLA 3160.

CLA 3433 The Athenian Democracy 3 Credits
Grading Scheme: Letter Grade
Studies ancient Athens from c.650-322 BCE, with attention to the political, social and cultural institutions of the democracy, drawing on primary sources and modern theory to explain democratic changes from the archaic to the classical period. (H)
Attributes: General Education - Humanities

CLA 3434 Classical Greece 3 Credits
Grading Scheme: Letter Grade
Studies the social, political and cultural developments of classical Greece from the Persian Wars to the death of Alexander (500-322 BCE). (H)
Attributes: General Education - Humanities

CLA 3500 Sport and Recreation in the Ancient World 3 Credits
Grading Scheme: Letter Grade
Examines literary and archaeological sources to determine the social, economic, political and cultural importance of games in the ancient Mediterranean world from the time of Homer to the fall of the Roman Empire.
Prerequisite: sophomore standing or higher.

CLA 3504 Gender and Sexuality in Classical Antiquity 3 Credits
Grading Scheme: Letter Grade
Explores perceptions of the masculine and feminine in Ancient Greece and Rome, discussing these stereotypes in their political, social, economic and cultural contexts. (H)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

CLA 3700 Classical Archaeology 3 Credits
Grading Scheme: Letter Grade
Illustrated lectures on archaeology, its process of discovery and methods. History of major archaeological exploration in Mediterranean lands compared with extant literary information. (H and N)
Attributes: General Education - Humanities, General Education - International

CLA 3791 The Ancient City: Greek Cities 3 Credits
Grading Scheme: Letter Grade
Development of the cities of classical Greece from Minoan centers through Byzantium. All aspects of city life are covered: design, building techniques, culture and ideas. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

CLA 3793 The Ancient City: Roman Cities 3 Credits
Grading Scheme: Letter Grade
Studies the cities of the Roman Empire from the founding of Rome to the establishment of Constantinople as the Eastern capital. Emphasis on life in imperial Rome and in European and North African cities. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

CLA 3930 Special Topics in Classical Civilization 3 Credits
Grading Scheme: Letter Grade
Examines various aspects of Greek and Roman culture based on the ancient sources, literary and archaeological. (H and N)
Attributes: General Education - Humanities, General Education - International

CLA 4905 Individual Study 1-4 Credits
Grading Scheme: Letter Grade
Reading, conference and reports. All work in will be in translation.
Prerequisite: instructor permission.

CLA 4911 Undergraduate Research in Classical Civilization 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Classical Civilization. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Classical Civilization.

CLA 4931 Classics Capstone Seminar 3 Credits
Grading Scheme: Letter Grade
Introduces scholarly literature on a significant topic in classics. Students will write a research paper showing proper use of primary and secondary sources on the topic.
Prerequisite: classics major with at least 18 credits of CLA and/or CLT courses and at least 8 credits of Latin or Ancient Greek.

CLA 4956 Overseas Studies 1 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

CLT 2044 English Vocabulary from Greek and Latin 3 Credits
Grading Scheme: Letter Grade
Historical study of the origins, development and lexicography of English vocabulary with emphasis on elements derived from Greek and Latin. (H)
Attributes: General Education - Humanities

CLT 3123 Survey of Roman Literature 3 Credits
Grading Scheme: Letter Grade
Critical study of the development of Roman literature. Includes readings from Plautus, Cicero, Catullus, Vergil, Ovid and Tacitus, read in translation. (H and N)
Attributes: General Education - Humanities, General Education - International

CLT 3291 Greek Drama 3 Credits
Grading Scheme: Letter Grade
The classical Greek theater, archaeological remains of important theaters and selected plays of Aeschylus, Sophocles, Euripides, Aristophanes and Menander. All works are read in translation. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

CLT 3340 Ancient Greek and Roman Epic 3 Credits
Grading Scheme: Letter Grade
Examines the origin and development of the ancient Greek and Roman epic traditions in the political and social context of the Mediterranean region and Near East from the first millennium BCE through the first century CE. (H)
Attributes: General Education - Humanities

CLT 3370 Myths of the Greeks and Romans 3 Credits
Grading Scheme: Letter Grade
Development, importance and influence of Graeco-Roman mythology. The main Greek and Latin literary sources are read in translation. (H and N)
Attributes: General Education - Humanities, General Education - International

CLT 3371 Religions of the Graeco-Roman World 3 Credits
Grading Scheme: Letter Grade
Development, importance and influence of Greek and Roman religion and cult practice. The main literary and epigraphical sources are read in translation. (H and N)
Attributes: General Education - Humanities, General Education - International

CLT 3421 Classics and Science Fiction 3 Credits
Grading Scheme: Letter Grade
Studies science fiction's origins in Greek and Roman texts to investigate the influence of Greco-Roman literature on modern works of science fiction.
Prerequisite: CLA 2100 or CLA 2120 or CLT 2044.

CLT 3510 Ancient World in Film 4 Credits
Grading Scheme: Letter Grade
Examines film and television characterizations of the ancient world and how these accord with the facts as we know them through historical and archaeological evidence. Viewing of selected movies along with background readings, lectures and discussion. (H)
Attributes: General Education - Humanities

CLT 3531 Legendary Rome 3 Credits
Grading Scheme: Letter Grade
The myths and history associated with Rome's early foundation stories and examination of works of literature about Rome's foundation in their political, social and cultural contexts.

CLT 3930 Special Topics in Classical Literature 3 Credits
Grading Scheme: Letter Grade
Examines various aspects of Greek and Roman literature with focus on special genres (e.g., historiography), periods (e.g., the age of Augustus) or subjects (e.g., slavery). (H)
Attributes: General Education - Humanities

CLT 4905 Individual Study 1-4 Credits
Grading Scheme: Letter Grade
Reading, conference and reports. All works are read in translation.
Prerequisite: instructor permission.

GMT 3223 Lovers in the Greek Novel 3 Credits
Grading Scheme: Letter Grade
Examines Ancient Greek and Byzantine novels that feature the adventures of virtuous young lovers as they handle with sophistication issues of ethnicity and identity, as well as political and social concerns.
Prerequisite: sophomore standing or higher.

GMT 3513 Greece in the European Context in the 20th Century 3 Credits
Grading Scheme: Letter Grade
Overview of Greek politics, society and culture in the 20th century.

GMT 4110 The Literature of Byzantium 3 Credits
Grading Scheme: Letter Grade
Overview of major genres of Byzantine literature (Patristic literature, oratory, historiography, chronicle, hagiography, hymnography, epic poetry) from the years CE 330-1453. (H) (WR)
Prerequisite: instructor permission.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

GMT 4911 Undergraduate Research in Modern Greek Language and Literature 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

GRE 1120 Beginning Ancient Greek 1 4 Credits
Grading Scheme: Letter Grade
The basics of ancient Greek grammar, morphology, syntax and vocabulary.

GRE 1121 Beginning Ancient Greek 2 4 Credits
Grading Scheme: Letter Grade
The basics of ancient Greek grammar, morphology, syntax and translation, with special attention to irregular verbs.
Prerequisite: GRE 1120 or GRE 1130.

GRE 1130 Accelerated Beginning Ancient Greek 1 5 Credits
Grading Scheme: Letter Grade
This course and its sequel, GRE 1131, constitute the basic sequence for development of overall skill in the language.

GRE 1131 Accelerated Beginning Ancient Greek 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence for development of overall skill in the language.
Prerequisite: GRE 1130 or the equivalent.

GRK 1130 Beginning Modern Greek 1 5 Credits
Grading Scheme: Letter Grade
This course and its sequel, GRK 1131, constitute the basic sequence for development of overall skill in the language.

GRK 1131 Beginning Modern Greek 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence for development of overall skill in the language.
Prerequisite: GRK 1130 or the equivalent.

GRK 2200 Intermediate Modern Greek 1 3 Credits
Grading Scheme: Letter Grade
Readings in modern Greek literature, history and culture. (H and N)
Prerequisite: GRK 1131 or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRK 2201 Intermediate Modern Greek 2 3 Credits
Grading Scheme: Letter Grade
Additional readings in modern Greek literature, history and culture. (H and N)
Prerequisite: GRK 2200 or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRK 4300 Modern Greek Literature Since 1830 3 Credits
Grading Scheme: Letter Grade
Advanced study of representative modern Greek prose, poetry and drama in the original from independence (1830) to the present. The course combines the study of the modern Greek language with readings, analysis and discussion of major literary works.
Prerequisite: GRK 2201 or the equivalent.

GRK 4905 Individual Work in Modern Greek 1-4 Credits
Grading Scheme: Letter Grade
For advanced students who seek independent work not offered in another course. Must be arranged individually with Greek faculty.
Prerequisite: GRK 1131.

GRW 2211 Intermediate Greek Prose 3 Credits
Grading Scheme: Letter Grade
Readings selected from Attic Greek prose authors designed to aid students in the transition from grammar to connected prose passages.
Prerequisite: GRE 1121 or GRE 1131 or the equivalent.

GRW 2240 New Testament Greek 3 Credits
Grading Scheme: Letter Grade
Reviews grammar and forms. Readings from several books of the New Testament. (H and N)
Prerequisite: some knowledge of Greek and instructor permission.
Attributes: General Education - Humanities, General Education - International

GRW 3102 Survey of Greek Literature 2 3 Credits
Grading Scheme: Letter Grade
Studies representative texts from various periods of Greek literature. (H and N)
Attributes: General Education - Humanities, General Education - International

GRW 3301 Greek Drama 3 Credits
Grading Scheme: Letter Grade
Selected plays of Aeschylus, Sophocles or Euripides.
Prerequisite: one 2000-level Greek course or the equivalent.

GRW 3501 Plato 3 Credits
Grading Scheme: Letter Grade
Studies Plato's Meno and Apology. (H and N)
Prerequisite: GRE 1131 or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRW 4330 Greek Lyric Poetry 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of Greek lyric poetry, from Archilochus to Bacchylides. (H and N)
Prerequisite: two 3000-level Greek courses or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRW 4340 Homer and Greek Epic 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of selections from Homer's Iliad and Odyssey. (H and N)
Prerequisite: two 3000-level Greek courses or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRW 4380 Greek Historians 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of selections of Herodotus, Thucydides, Xenophon and Plutarch. (H and N)
Prerequisite: two 3000-level Greek courses or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRW 4700 Greek Orators 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of selections from Lysias, Demosthenes and Isocrates. (H and N)
Prerequisite: two 3000-level Greek courses or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRW 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
Reading, conference and reports.
Prerequisite: GRE 1131 or the equivalent.

GRW 4911 Undergraduate Research in Greek Language and Literature 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

GRW 4930 Studies in Greek Literature 3 Credits
Grading Scheme: Letter Grade
Advanced study of a particular author, genre, period or subject.
Prerequisite: one 3000-level course in ancient Greek.

LAT 1101 Beginning Latin 2 3 Credits
Grading Scheme: Letter Grade
The second part of the sequence for those with little or no background in Latin.
Prerequisite: LAT 1120 with minimum grade of C or S, or the equivalent.

LAT 1104 Beginning Latin 3 3 Credits
Grading Scheme: Letter Grade
The third part of the sequence for students with little background in high-school Latin.
Prerequisite: LAT 1101 with minimum grade of C or S, or the equivalent.

LAT 1120 Beginning Latin 1 4 Credits
Grading Scheme: Letter Grade
The first of a 3-semester sequence for students with little or no background in Latin. Others enrolling in the course will be required to take it for an S-U grade.

LAT 1130 Accelerated Beginning Latin 1 5 Credits
Grading Scheme: Letter Grade
This course and its sequel, LAT 1131, constitute the basic sequence for development of overall skill in the language. Students are expected students to have little or no background in Latin. Others enrolling in the course will be required to take it for an S-U grade.

LAT 1131 Accelerated Beginning Latin 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence for development of overall skill in the language.
Prerequisite: LAT 1130 with minimum grade of C, or S, or the equivalent.

LIT 2000 Introduction to Literature 3 Credits
Grading Scheme: Letter Grade
Examines the important role literature has played in individuals' lives and in society, presenting a range of literary styles and genres, from different countries and historical periods. Special attention paid to development of critical skills of analysis and interpretation. (H)
Prerequisite: ENC 1101
Attributes: General Education - Humanities

LNW 2321 Introduction to Vergil 3 Credits
Grading Scheme: Letter Grade
Readings in Vergil's Eclogues, Georgics and/or the Aeneid, with emphasis on introducing Vergilian style, diction poetic techniques and basic genre differences. Review of Latin grammar and syntax. (H)
Prerequisite: LAT 1104 or LAT 1131 or two years of high school Latin.
Attributes: General Education - Humanities

LNW 2560 Readings in Latin Literature 3 Credits
Grading Scheme: Letter Grade
Examines various aspects of Roman life through readings in Latin literature (with a focus on either special subjects, authors, genres or periods) and a review of Latin grammar. (H)
Prerequisite: LAT 1104, LAT 1131 or two years of high school Latin, or instructor permission.
Attributes: General Education - Humanities

LNW 2630 Latin Love Poetry 3 Credits
Grading Scheme: Letter Grade
Translation and interpretation of selected poems of Catullus and a thorough review of Latin grammar. (H and N)
Prerequisite: LAT 1104 or LAT 1131 or two years of high school Latin, or instructor permission.
Attributes: General Education - Humanities, General Education - International

LNW 3220 The Ancient Novel 3 Credits
Grading Scheme: Letter Grade
Readings from Petronius, Apuleius or the Historia Apollonii Regis Tyri. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3310 Roman Drama 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of the comedies of Plautus and Terence or the tragedies of Seneca. (H)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities

LNW 3320 Roman Elegy and Lyric 3 Credits
Grading Scheme: Letter Grade
Selected poems of Catullus, Horace, Tibullus, Propertius or Ovid. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3360 Roman Satire 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of the Roman satirists Horace, Persius, Juvenal or Martial. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3380 The Roman Historians 3 Credits
Grading Scheme: Letter Grade
Readings in Latin from one of the Roman historians: Sallust, Caesar, Livy or Tacitus. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3490 Medieval Latin 3 Credits
Grading Scheme: Letter Grade
Readings from Medieval Latin 350 - 1200 A.D. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3644 Cicero 3 Credits
Grading Scheme: Letter Grade
Essays, speeches and letters of Cicero. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3660 Vergil and Roman Epic 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of selections from Vergil's Aeneid in the light of his epic techniques and the spirit of the Augustan Age. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3930 Studies in Latin Literature 3 Credits
Grading Scheme: Letter Grade
A rotating topics course providing in-depth study of a particular author (e.g., Suetonius), genre (e.g., didactic poetry) or period (e.g., The Silver Age).
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.

LNW 4905 Special Study in Latin 1-4 Credits
Grading Scheme: Letter Grade
Readings, conferences and reports.
Prerequisite: LAT 1104, LAT 1131, LAT 2200 or the equivalent.

LNW 4911 Undergraduate Research in Latin Language and Literature 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

Clinical and Health Psychology

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

CLP 3911 Introduction to Clinical Research 1-3 Credits
Grading Scheme: S/U
Hands-on, faculty-supervised research experience in an area of interest to the student. Introduces current research techniques, including the design and development of clinical research projects and data analysis. Three hours of laboratory work or other research activity (e.g., literature searches, grant preparation, recruitment of study participants, etc.) are required for each semester credit. (S-U)

CLP 4134 Introduction to Clinical Child/Pediatric Psychology 3 Credits
Grading Scheme: Letter Grade
Survey and exploration of the science and practice of clinical child/pediatric psychology, including application of clinical science to problems faced by children and their families. Course also emphasizes assessment and intervention methodologies related to child behavior and health.
Prerequisite: PSY 2012 and CLP 3144, and STA 2023.

CLP 4302 Introduction to Clinical Psychology 3 Credits
Grading Scheme: Letter Grade
Survey and exploration of contemporary roles of clinical psychologists. Course also emphasizes the integration of science and practice when solving problems of individuals, families and groups.
Prerequisite: PSY 2012 and CLP 3144 and STA 2023 and (communication sciences and disorders or health science majors or health science minor).

CLP 4314 Introduction to Health Psychology 3 Credits
Grading Scheme: Letter Grade
Survey and exploration of the science and practice of clinical health psychology. Course also emphasizes application of the biopsychosocial model of health and illness to health promotion, disease prevention and the treatment and rehabilitation of existing illness and disability.
Prerequisite: PSY 2012 and CLP 3144 and (three additional credits in psychology or health science or statistics) and (communication sciences and disorders or health science majors or health science minor).

CLP 4420 Introduction to Neuropsychology 3 Credits
Grading Scheme: Letter Grade
Survey and exploration of the science and practice of clinical neuropsychology. Course also emphasizes discussion of major neuropsychological disorders and the mechanisms underlying higher cognitive function.
Prerequisite: PSY 2012 and CLP 3144 and (three additional credits in psychology or health science or statistics).

Computer and Information Science and Engineering

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Bachelor's degree programs are currently available through the College of Liberal Arts and Sciences and the Herbert Wertheim College of Engineering. A minor in computer and information science, master's degree programs and a Ph.D. program also are available.

There are strict limitations on the use of CGS and survey courses in the programs offered by the department.

College of Engineering degree program in computer engineering: Refer to the Herbert Wertheim College of Engineering section of the catalog for degree requirements; this program is offered by the CISE department.

The Herbert Wertheim College of Engineering offers two degrees in computer engineering: the CEN degree (computer engineering: software option) is offered by the CISE department and the CEE degree (computer engineering: hardware option) is offered by the ECE department.
More Info (https://catalog.ufl.edu/ugrad/current/engineering/majors/computer-engineering.aspx)

The college also offers a computer science degree program through the CISE department.
More Info (https://catalog.ufl.edu/ugrad/current/engineering/majors/computer-science.aspx)

College of Liberal Arts and Sciences degree program in computer science: refer to the College of Liberal Arts and Sciences section of the catalog for degree requirements.

Courses

CAP 3020 Theory and Practice of Multimedia Production 3 Credits
Grading Scheme: Letter Grade
Combines the traditional media production pipeline and software engineering processes to synthesize an approach geared for the production of works incorporating both artistic and computational elements.
Prerequisite: CAP 3027.

CAP 3027 Introduction to Digital Arts and Sciences 3 Credits
Grading Scheme: Letter Grade
Synergy between art and computing through a programming-oriented exploration of fundamental concepts in multimedia.
Prerequisite: COP 3504 or COP 3503.

CAP 3032 Interactive Modeling and Animation 1 3 Credits
Grading Scheme: Letter Grade
Introduces programming and data structures for interactive two-dimensional multimedia applications. Representing form and transforms in two dimensions, capturing user actions and driving application behavior interactively. Graphical interfaces, image processing, automata and basic artificial intelligence.
Prerequisite: MAC 1147 or equivalent.

CAP 3034 Introduction to Computer-Aided Animation 3 Credits
Grading Scheme: Letter Grade
Introduces topics related to computer-aided animation. Rigging for forward and inverse kinematics. Skin weighting. Morph targets. Expression-driven animation, rigid-body and particle simulation.
Prerequisite: MAC 1147 or equivalent.

CAP 3220 Introduction to Computer-Aided Modeling 3 Credits
Grading Scheme: Letter Grade
Introduces topics related to computer-aided modeling. Polygonal mesh, NURBS and subdivision surface meshes. Materials and shading networks. Lighting, shadows and rendering.
Prerequisite: MAC 1147 or equivalent.

CAP 4053 Artificial Intelligence for Computer Games 3 Credits
Grading Scheme: Letter Grade
Examines the use of A.I. in computer games. Topics include general A.I. knowledge, path finding, movement, tactics and planning, strategy, state machines, learning, dialogue, and emotions.
Prerequisite: COP 3530.

CAP 4621 Artificial Intelligence and Heuristics 3 Credits
Grading Scheme: Letter Grade
Introduces artificial intelligence concepts. Heuristic search, clause form logic, knowledge representation, reasoning and inference, overview of computer vision, planning, natural language, Lisp and Prolog. (M)
Prerequisite: COP 3530.

CAP 4680 Knowledge-Based System: Theory and Practice 3 Credits
Grading Scheme: Letter Grade
Concepts, theory and various applications for knowledge-based (expert) systems, reasoning schemes, knowledge representation, knowledge-based system tools, building knowledge bases, knowledge acquisition, reasoning under certainty and inexact reasoning.
Prerequisite: COP 3530.

CAP 4730 Computational Structures in Computer Graphics 3 Credits
Grading Scheme: Letter Grade
Studies the major topics in computer graphics: display and output technology, two and three dimensional manipulations; space curves and surfaces, hidden surface removal and shading models.
Prerequisite: COP 3530.

CAP 4770 Introduction to Data Science 3 Credits
Grading Scheme: Letter Grade
Introduces the basics of data science including programming for data analytics, file management, relational databases, classification, clustering, and regression; lays the foundation for big data applications ranging from social networks to medical and business informatics.
Prerequisite: COP 3530.

CAP 4773 Projects Data Science 3 Credits
Grading Scheme: Letter Grade

CDA 3101 Introduction to Computer Organization 3 Credits
Grading Scheme: Letter Grade
Organization of computing systems. Logical basis of computer structure. Machine representation of instructions and data, flow of control, and basic machine instructions. Assembly language programming. (M)
Prerequisite: (COP 3504 or COP 3503) and MAC 2233 and (MAC 2311 or MAC 3472) and COT 3100.

CDA 4102 Computer Architecture 3 Credits
Grading Scheme: Letter Grade
Introduces computer architecture and system organization including virtual memory supports cache, pipeline, vector processing, multiprocessor and RISC architecture.
Prerequisite: CDA 3101 and COP 3530.

CDA 4630 Embedded Systems 3 Credits
Grading Scheme: Letter Grade

CEN 3031 Introduction to Software Engineering 3 Credits
Grading Scheme: Letter Grade
Topics include software planning, specifications, coding, testing and maintenance. Gain experience in the team approach to large system development. (M)
Prerequisite: COP 3530.

CEN 3907C Computer Engineering Design 1 3 Credits
Grading Scheme: Letter Grade
Reinforce basic computer engineering skills; design, produce, and report on a computer engineering project, meeting defined specifications and using a structured design methodology and project management.
Prerequisite: CEN 3031 and EEL 3744C with minimum grades of C.

CEN 3908C Computer Engineering Design 2 3 Credits
Grading Scheme: Letter Grade
Selected capstone design projects involving engineering applications in the various areas of computer engineering. Must be taken prior to the semester of graduation .
Prerequisite: CEN 3907C with minimum grade of C and senior standing.

CEN 3913 Computer and Information Science and Engineering Design 1 3 Credits
Grading Scheme: Letter Grade
Preparatory skills are developed for CISE Design 2 for Computer Engineering students. Teams design, produce and report on a software prototype, meeting defined specifications and using a structured design methodology and project management.
Prerequisite: CEN 3031.

CEN 4072 Software Testing and Verification 3 Credits
Grading Scheme: Letter Grade
Concepts, principles and techniques of software testing and verification. Strengths and limitations of black-box and white-box testing methods; techniques for proving the correctness of programs.
Prerequisite: CEN 3031.

CEN 4721 Human-Computer Interaction 3 Credits
Grading Scheme: Letter Grade
Studies the major topics in the study, planning and design of the interaction between people and computers. Topics include interface design (principles, theories and guidelines), virtual environments, interactive devices and collaboration.
Prerequisite: COP 3530.

CEN 4722 User Experience Design 3 Credits
Grading Scheme: Letter Grade
Introduces methods and tools used in User Experience Design (UXD): the early stages of software design focused on meeting user needs. Key concepts include user research, contextual design, design thinking, ideation, iterative design, prototyping, and design documentation. Projects utilize software tools used in the industry.
Prerequisite: COP 3530.

CEN 4725 Natural User Interaction 3 Credits
Grading Scheme: Letter Grade
Introduces the design, development and evaluation of Natural User Interaction (NUI) technologies (e.g., non-keyboard and mouse technologies such as touchscreen interaction, gesture interaction, speech interaction, etc.). Discussion of the hardware-to-software NUI pipeline and key considerations when developing NUI software, including existing platforms, toolkits and APIs used to create NUI software.
Prerequisite: COP 3530 with minimum grade of C.

CEN 4914 Computer and Information Science and Engineering Design 2 3 Credits
Grading Scheme: Letter Grade
Involves completing a significant CEN-related project. Coordinate with the instructor and a project advisor, prepare a detailed technical report and deliver an oral presentation.
Prerequisite: CEN 3913.

CGS 2032 Math, Art and Computing 3 Credits
Grading Scheme: Letter Grade
Introduces interdisciplinary computer science topics. Logic, discrete structures, algorithms and automa. Exploration of topics relating mathematics and computing to art, music and nature. (M)
Prerequisite: MAC 1147.
Attributes: General Education - Mathematics

CGS 3063 Computers and Modern Society 3 Credits
Grading Scheme: Letter Grade
Impact of computers on society. Discussion includes specific cases from many areas, but does not include problem solution. Does not teach how to use the computer but gives an understanding of the implications of computers. (S) (WR)
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

CGS 3065 Legal and Social Issues in Computing 3 Credits
Grading Scheme: Letter Grade
Explores the history, the myth, the ethics, the law and the risks of computer-based technology in modern society. Emphasizes critical analysis of hypotheticals and case studies. Published material is supplemented with online references.
Prerequisite: previous experience in Unix environment.

CIS 2354 Introduction to Cybersecurity 3 Credits
Grading Scheme: Letter Grade
Introduces many issues in cybersecurity including ubiquity of processors and communications in modern society, vulnerabilities of computers, networks, data, and embedded systems; privacy, risk management, social engineering, various attacks on computers and networked systems, attacks on user authentication systems. Expect weekly discussion of current topics.

CIS 4204 Penetration Testing: Ethical Hacking 3 Credits
Grading Scheme: Letter Grade
Introduces principles and techniques associated with the cybersecurity practice known as penetration testing or ethical hacking. Covers planning, reconnaissance, scanning, exploitation, post-exploitation, and result reporting. Discover how system vulnerabilities can be exploited and learn to avoid such problems.
Prerequisite: COP 3530.

CIS 4301 Information and Database Systems 1 3 Credits
Grading Scheme: Letter Grade
First part of a two-course sequence that studies the essential concepts, principles and techniques of modern database systems. Topics include modeling and querying of data using conceptual data models as well as the development of a database application. (M)
Prerequisite: COP 3504 or (COP 3503 and COT 3100).

CIS 4360 Computer and Information Security 3 Credits
Grading Scheme: Letter Grade
Covers systematic threat and risk assessment; programmed threats and controls in hardware, software, and human procedures; security policies, models, and mechanisms; theoretical limitations and practical implementations; certification and accreditation standards; and case study reviews. Includes projects.
Prerequisite: COP 4600 or equivalent.

CIS 4362 Introduction to Cryptology 3 Credits
Grading Scheme: Letter Grade
Introduces classical and modern cryptography and cryptanalysis, including symmetric and asymmetric (public key) ciphers. Covers cryptographic hash functions, block and stream ciphers, as well as differential and linear cryptanalysis. Reviews applications of cryptography, cryptographic standards and protocols, and analyzes case studies of failed implementations.
Prerequisite: COT 3100 or the equivalent.

CIS 4905 Individual Study in CISE 1-4 Credits
Grading Scheme: Letter Grade
Problems in different areas of computer science.

CIS 4912C Integrated Product and Process Design 1 3 Credits
Grading Scheme: Letter Grade
First part of a two-course sequence where teams of engineering and business students partner with industry sponsors to design and build authentic products and processes. Working closely with an industry liaison engineer and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills. Weekly workshop activities adapt lecture topics to individual projects. Learn firsthand how to develop products and processes that meet customer requirements on time and within budget.
Prerequisite: CDA 3101, COP 3530, COT 3100 and instructor permission.

CIS 4913C Integrated Product and Process Design 2 3 Credits
Grading Scheme: Letter Grade
Second part of a sequence where teams of engineering and business students partner with industry sponsors to design and build authentic products and processes.
Prerequisite: CIS 4912C.

CIS 4914 Senior Project 3 Credits
Grading Scheme: Letter Grade
Involves completing a significant CISE-related project. Coordinate with the instructor and a project advisor, prepare a detailed technical report and deliver an oral presentation. (M)
Prerequisite: senior CISE standing and approved project proposal.

CIS 4930 Special Topics in CISE 1-4 Credits
Grading Scheme: Letter Grade
Variable content provides an opportunity for in-depth study of topics not offered elsewhere and of topics of current significance.
Prerequisite: COP 3503 or instructor permission.

CIS 4940 Practical Work 1 Credit
Grading Scheme: S/U
One term practical software engineering work under industrial supervision as set forth in the Herbert Wertheim College of Engineering regulations. (S-U)

CIS 4949 Co-Op Work in CISE 1 Credit
Grading Scheme: S/U
Practical engineering work under industrial supervision, as set forth in the Herbert Wertheim College of Engineering regulations. (S-U)

CIS 4956 Overseas Studies 1 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

CNT 4007C Computer Network Fundamentals 4 Credits
Grading Scheme: Letter Grade
Fundamental concepts, principles and standards of computer networks. Topics are introduced in bottom-up approach, starting from physical layer in OSI system architecture with a stronger focus on data link, mac, network and transport layers. (M)
Prerequisite: COP 4600.

CNT 4409 Network and System Security 3 Credits
Grading Scheme: Letter Grade
Examines networked threats and vulnerabilities; trust, identification, authentication, and authorization in networked and distributed systems; secure network protocols and standards; certification of network products; firewall configurations, intrusion detection, and anomaly detection; security flaws in network protocols and distributed applications. Includes projects.
Prerequisite: CNT 4007C and COP 4600 or equivalent.

COP 2271 Computer Programming for Engineers 2 Credits
Grading Scheme: Letter Grade
Computer programming and the use of computers to solve engineering and mathematical problems. Emphasizes applying problem solving skills; directed toward technical careers in fields employing a reasonably high degree of mathematics. The programming language used depends on the demands of the departments in the college. Several languages may be taught each semester, no more than one per section. Those required to learn a specific language must enroll in the correct section. (M)
Prerequisite: MAC 2312 with minimum grade of C.

COP 2800 Computer Programming Using JAVA 3 Credits
Grading Scheme: Letter Grade
In-depth treatment of computer programming using JAVA. Problems related to a variety of disciplines are solved. Introduces the basic concepts of software and hardware; develop a variety of stand-alone applications and applets. For non-CISE majors only.
Prerequisite: MAC 1147 or the equivalent.

COP 3229 Computer Programming Using C++ 3 Credits
Grading Scheme: Letter Grade
In-depth treatment of the C++ programming language. Introduces Windows programming using Visual C++.
Prerequisite: COP 3504 or COP 3503.

COP 3275 Computer Programming Using C 3 Credits
Grading Scheme: Letter Grade
Solve problems related to a variety of disciplines; introduces the basic concepts of software and hardware. (M)
Prerequisite: MAC 1147 or the equivalent.

COP 3502 Programming Fundamentals 1 3 Credits
Grading Scheme: Letter Grade
First course of a two-semester introductory sequence for those planning further study in computer science, digital arts and sciences or computer engineering. Concepts of computer science and the process of computer programming, including object-oriented programming, procedural and data abstraction and program modularity.
Corequisite: MAC 2311.

COP 3503 Programming Fundamentals 2 3 Credits
Grading Scheme: Letter Grade
Second course of a two-semester introductory sequence for those planning further study in computer science, digital arts and sciences or computer engineering. Concepts of computer science and the process of computer programming, including object-oriented programming, procedural and data abstraction and program modularity.
Prerequisite: (COP 3502 with a minimum grade of C or an AP exam in computer science with a minimum grade of 4) and MAC 2311 with a minimum grade of C.

COP 3504 Advanced Programming Fundamentals for CIS Majors 3 Credits
Grading Scheme: Letter Grade
Fast-paced introduction to computer science for those with prior programming experience. Explores major concepts of computer science and the process of computer programming, including object-oriented programming, procedural and data abstraction and program modularity. (M)
Prerequisite: (MAC 2311 or MAC 3472) and programming experience.

COP 3530 Data Structures and Algorithm 4 Credits
Grading Scheme: Letter Grade
Algorithm development using pseudo languages, basic program structures, program design techniques, storage and manipulation of basic data structures like arrays, stacks, queues, sorting and searching and string processing. Linked linear lists. Trees and multilinked structures. (M)
Prerequisite: (COP 3504 or COP 3503 with minimum grade of C or COT 3100) and (MAC 2234 or MAC 2312 or MAC 2512 or MAC 3473).

COP 4020 Programming Language Concepts 3 Credits
Grading Scheme: Letter Grade
Introduces programming language principles, including language constructs, design goals, run-time structures, implementation techniques and exposure to a wide variety of programming paradigms.
Prerequisite: COP 3530.

COP 4331 Object-oriented Programming 3 Credits
Grading Scheme: Letter Grade
Fundamental conceptual models for programming languages illustrated with specific programming languages and application problems. Specific topics include class and object models, inheritance among classes, objects and static and dynamic systems and implementations.
Prerequisite: COP 3530.

COP 4600 Operating Systems 3 Credits
Grading Scheme: Letter Grade
Design and implementation of various components of a modern operating system, including I/O programming, interrupt handling, process and resource management, computer networks and distributed systems. (M)
Prerequisite: CDA 3101 and COP 3530; knowledge of C or C++ recommended.

COP 4620 Translators and Translator Writing Systems 3 Credits
Grading Scheme: Letter Grade
Translation of languages, scanning and parsing techniques. Translator writing systems. The implementation of a compiler. (M)
Prerequisite: COP 3530.

COP 4720 Information and Database Systems 2 3 Credits
Grading Scheme: Letter Grade
Part two of a two-course sequence. Provides a basic understanding of the internals of a modern database system. Topics include data storage, indexing, query processing and advanced concepts such as database tuning, alternate data models and emerging applications. (M)
Prerequisite: CIS 4301 and COP 3530.

COT 3100 Applications of Discrete Structures 3 Credits
Grading Scheme: Letter Grade
Covers the mathematics of discrete events; i.e., events that involve distinct elements, finite structures of distinct elements or finite sampled versions of continuous phenomena (such as movement). (M)
Prerequisite: MAC 2233 or MAC 2311 or MAC 3472;
Corequisite: COP 3504 or COP 3503.
Attributes: General Education - Mathematics

COT 4501 Numerical Analysis: a Computational Approach 3 Credits
Grading Scheme: Letter Grade
Numerical integration, nonlinear equations, linear and nonlinear systems of equations, differential equations and interpolation.
Prerequisite: (COP 3504 or COP 3503) and MAS 3114.

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGS 1005 Prep for Success 1-4 Credits
Grading Scheme: S/U
Freshman success course that includes academic preparation in calculus, chemistry, student success and technical communications. (S-U)
Prerequisite: EG student.

Construction Management

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

BCN 1001 Introduction to Construction Management 1 Credit
Grading Scheme: S/U
Familiarizes pre-construction students with the nature and functioning of the construction industry and the building construction curriculum. Emphasizes the specific safety regulations pertaining to the construction industry. (S-U)

BCN 1210 Construction Materials 3 Credits
Grading Scheme: Letter Grade
Sources, properties and uses of construction materials.

BCN 1251C Construction Drawing 3 Credits
Grading Scheme: Letter Grade
Provides basic working knowledge of architectural graphics, practice in instrumental drawing and experience in free hand sketching.

BCN 1582 International Sustainable Development 3 Credits
Grading Scheme: Letter Grade
An overview of international trends in reducing the environmental impacts of land development and construction. Surveys best practices in a dozen countries around the world. (N and S)
Attributes: General Education - International, General Education - Social Science

BCN 2405C Construction Mechanics 4 Credits
Grading Scheme: Letter Grade
Introduces the evaluation of structural behavior as it relates to buildings, the properties of structural materials and the structural behavior of load-resisting members. Primarily for building construction majors.
Prerequisite: PHY 2004 and PHY 2004L.

BCN 3012 History of Construction 3 Credits
Grading Scheme: Letter Grade
Traces Western building technology from prehistoric man to the present. Development of the art and science of building. (H and N)
Attributes: General Education - Humanities, General Education - International

BCN 3027C Principles of Construction Management 3 Credits
Grading Scheme: Letter Grade
Examines the role of various players involved in the construction and the administration of a construction project. Importance of ethical conduct in all aspects of construction business and operations. Development of advanced writing and presentation skills for construction professionals.
Prerequisite: junior standing or higher or instructor permission.

BCN 3223C Soils and Concrete 3 Credits
Grading Scheme: Letter Grade
Studies the construction process to include soils, demolition, earth-moving equipment, foundations, concrete mix design and concrete placement techniques. Includes field visits and soils and concrete laboratories.
Prerequisite: BCN 1210 and BCN 2405C and BCN 3224C.

BCN 3224C Construction Techniques 3 Credits
Grading Scheme: Letter Grade
Studies the vertical construction process to include wooden platform frame construction, cast-in-place and pre-cast concrete construction and steel erection. Included are masonry construction, interior and exterior finishes, vertical transportation systems, roofing and other building components.
Prerequisite: BCN 1210 and BCN 1251C.

BCN 3240C Equipment and Methods for Heavy/Highway Construction 3 Credits
Grading Scheme: Letter Grade
Theory and practice of equipment utilization and construction methods. Analysis of costs through production rates. Optimizing crew and equipment. Labor and heavy equipment production. Earthwork (sitework) execution methods and inspection.
Prerequisite: junior standing or higher.

BCN 3255C Graphic Communication in Construction 3 Credits
Grading Scheme: Letter Grade
Studies construction communication tools, including the use of computer-aided drafting (applications of 4-D modeling in construction), blueprint reading, free hand sketching, model building, piece-based simulations and the Internet.
Prerequisite: BCN 1251C.

BCN 3281C Construction Methods Laboratory 2 Credits
Grading Scheme: Letter Grade
Construction aspects of surveying with field and classroom exercises in the use of transit, level, chain and related equipment.

BCN 3431C Structures 3 Credits
Grading Scheme: Letter Grade
Examines the material properties, code requirements, analysis and construction procedures for steel and reinforced concrete structures.

BCN 3521C Electrical Systems 2 Credits
Grading Scheme: Letter Grade
Principles and practices of electrical systems, including code provisions and cost estimations.

BCN 3611C Construction Estimating 1 3 Credits
Grading Scheme: Letter Grade
Classification of work, quantity survey techniques and basic estimating principles applied to simple construction projects.
Prerequisite: BCN 3027C and BCN 3224C and BCN 3255C.

BCN 3700 Construction Contracts 3 Credits
Grading Scheme: Letter Grade
Function of the construction industry, construction contracting practices and construction contracts and delivery methods.
Prerequisite: BCN 3027C.

BCN 3730 Construction, Safety, Health and the Environment 3 Credits
Grading Scheme: Letter Grade
Construction safety issues, concerns, requirements and procedures. The analysis includes costs, planning, administration, inspection, prevention, loss control and drug-free workplace. Understanding of the major health issues encountered on construction sites. Appreciation for the need to be environmentally responsible.

BCN 4105 Sustainable Housing: Putting the 3 E's into Residential Practice 3 Credits
Grading Scheme: Letter Grade
Sustainability is more than just building green; it's the balance and intersection of "the 3 e's:" environment, economics, and social equity. Examine approaches to advancing sustainable housing in ways that postindustrial residential planning and building practices have thus far neglected to address.
Prerequisite: junior standing or higher.

BCN 4237 Roofing Systems 3 Credits
Grading Scheme: Letter Grade
Studies and analyzes building various roof systems including design, materials, installation, inspection and maintenance. Includes damp-proofing and waterproofing techniques.

BCN 4252 Introduction to Building Information Modeling 3 Credits
Grading Scheme: Letter Grade
Learn current Building Information Modeling (BIM) software to identify design errors and improve the construction process.
Prerequisite: BCN 3255C.

BCN 4423C Temporary Structures 3 Credits
Grading Scheme: Letter Grade
Studies the temporary structures that contractors have to build in order to construct the primary structure. This includes formwork, scaffolding and equipment for hoisting materials, personnel and erecting structures.
Prerequisite: BCN 3431C and senior standing.

BCN 4510C Mechanical Systems 4 Credits
Grading Scheme: Letter Grade
Principles and practices of building piping systems, hydraulics and pumps, comfort conditioning systems for building, heating and refrigeration equipment, building code considerations, plan reading and cost estimation.
Prerequisite: senior standing.

BCN 4594 Building Energy Modeling 3 Credits
Grading Scheme: Letter Grade
As energy becomes a more precious commodity, it is crucial to design and operate high performance buildings. A solid foundation of energy engineering and sustainability principles is essential to achieving these higher performance standards.
Prerequisite: junior standing or higher.

BCN 4612C Construction Estimating 2 3 Credits
Grading Scheme: Letter Grade
Analysis and determination of cost of construction operations including applicable indirect and overhead costs and the preparation of bid proposals for commercial construction projects. A cost-control system is introduced and implemented with sample field-generated problems.
Prerequisite: BCN 3611C and senior standing.

BCN 4709C Construction Project Management 3 Credits
Grading Scheme: Letter Grade
Understanding the various forms of project delivery methods (Design-Bid-Build, Design-Build, and Construction Management) and the underlying principles for choosing the appropriate system. Recognizing the complexity of the preconstruction process including conceptual estimating and scheduling, life cycle costing, constructability reviews, value engineering, risk management and special contract requirements. Understanding management and administration of a construction project.
Prerequisite: BCN 4612C and senior standing.

BCN 4712C Leadership and Management in Construction 3 Credits
Grading Scheme: Letter Grade
Leadership and management principles for construction professionals with a major emphasis on the diverse workforce, ethical issues in construction and the development of negotiation and conflict-resolution skills.
Prerequisite: senior standing.

BCN 4720 Construction Planning and Control 3 Credits
Grading Scheme: Letter Grade
Computer application of cost and manpower estimates as construction scheduling and management techniques.
Prerequisite: BCN 3611C and senior standing.

BCN 4723 Design-Build Delivery Methods 3 Credits
Grading Scheme: Letter Grade
Theory and practice of design-build contract delivery method. Includes an explanation of the history of design-build, the advantages and disadvantages of design-build as a delivery method and a thorough analysis of the major components of design and construction.
Prerequisite: junior standing or higher.

BCN 4753 Construction Finance 3 Credits
Grading Scheme: Letter Grade
Basic principles and applications of construction finance with an emphasis on the acquisition and management of construction loans, mortgages and construction accounting.
Prerequisite: senior standing.

BCN 4787C Construction Capstone Project 3 Credits
Grading Scheme: Letter Grade
A construction project is simulated with each student being responsible for designing, developing, estimating, scheduling, contracting and administering the work for the completion of a small commercial, residential or light industrial project.
Prerequisite: BCN 4612C and BCN 4720 and BCN 4753 and senior standing.

BCN 4880 Management of Heavy/Highway Construction 3 Credits
Grading Scheme: Letter Grade
Theory and practice of construction planning, methods and project management. Project control from conception through the construction phase: procurement of design professional, prime contractor, subcontractor, construction manager, project/program manager. Also includes definition of and delineation between each entity, construction contract types, delivery systems, heavy/highway plans reading, quality assurance/quality control, nuances of planning and bidding a unit price project, and project administration.
Prerequisite: junior standing or higher.

BCN 4905 Special Studies in Construction 1-4 Credits
Grading Scheme: Letter Grade
Special areas of study in construction adjusted to the needs of individual students. Enrollment upon recommendation of director only.

BCN 4949 Construction Management Internship 3 Credits
Grading Scheme: S/U
Minimum two-term employment in construction management. Requires advance approval. Internship work reports and oral presentation also required. (S-U)

BCN 4956 International Studies in Construction 1-4 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation. The course focus is on the construction industry in the host country. Course content varies and may address various construction issues including local construction techniques, construction materials and the influence on construction of the local culture, traditions, architecture, history and political climate.

EMS 1055 Emergency Medical Responder 3 Credits
Grading Scheme: Letter Grade
Introduces a basic understanding of pre-hospital emergency medicine; explore issues in patient assessment, distinguishing medical scenarios from trauma scenarios, taking appropriate actions and precautionary measures to ensure patient safety, and treating a patient?s injuries within the scope of their certification.

EMS 1055L Lab for Emergency Medical Responder 1 Credit
Grading Scheme: Letter Grade
Practical applications of pre-hospital emergency medicine, including medical and trauma skills, basic anatomy, and physiology as related to EMR requirements. Practice the skills learned in the Emergency Medical Responder course. Offered only on UF main campus.

EMS 4315 Analytical Approaches to EMS 3 Credits
Grading Scheme: Letter Grade
Focuses on the practice and principles of emergency medical services systems management, including effective daily operations within an EMS organization. Topics include purpose of analysis; analysis in parallel professions; problem identification; foundational analysis; data collection; financial analysis; cost-benefit analysis; policy and impact analysis; and project development.
Prerequisite: junior or senior standing.

FES 2941 Emergency Management Internship 3 Credits
Grading Scheme: S/U
Gain experience in an emergency management situation to identify and apply best practices in the development of preparation, planning, responding, recovering, and mitigating disasters; participate in supervised disaster management work activities that provide experiential learning in emergency management.

FES 3004 Political and Legal Foundations of Fire Protection 3 Credits
Grading Scheme: Letter Grade
Examines the legal aspects of fire service and the political and social impacts of legal issues; reviews the American legal system and covers legal and political issues involving employment and personnel matters, administration and operations, and planning and code enforcement with regard to the fire service.
Prerequisite: junior standing or higher.

FES 3015 Principles of Fire and Emergency Services Management 3 Credits
Grading Scheme: Letter Grade
Fundamentals of management underlying the solution of problems of organization and operation of fire and emergency services agencies. (S) (WR)
Prerequisite: junior standing or higher.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

FES 3033 Fire and Emergency Services Labor Issues 3 Credits
Grading Scheme: Letter Grade
Determinants of demand for labor and labor supply. Labor market equilibrium and changes in the equilibrium due to changes in unionization, public policies and technology. Study of the effects of skill, job amenities and discrimination on wage differentials. A review of PERC, FSLA and unions is included.
Prerequisite: junior standing or higher.

FES 3153 FES Communication and Informational Technology 3 Credits
Grading Scheme: Letter Grade
Communications systems used in fire and emergency services such as high frequency voice/data, Internets and Intranets, satellite communications, GPS and GIS. An introduction, examination, equipment assessment, implementation program and maintenance management module are provided for each system covered.
Prerequisite: junior standing or higher.

FES 3223 Foundations of EMS 3 Credits
Grading Scheme: Letter Grade
Covers the design and operation of EMS systems, service delivery, and echelons of care. The history of EMS, interface of public and private organizations and review of the various personnel who comprise these systems, will be examined in relation to their impact on the health care delivery system.
Prerequisite: junior standing or higher.

FES 3227 Ambulance Operations 3 Credits
Grading Scheme: Letter Grade
Overview of the application of management principles to the provision of medical transport services. Includes an analysis of the economic, geographic, temporal, and clinical characteristics of ambulance demand, the key processes for providing transport services, and an evaluation of industry best practices.
Prerequisite: junior standing or higher.

FES 3233 EMS Safety and Risk Management 3 Credits
Grading Scheme: Letter Grade
Introduces the risk management principles of an EMS agency. Emphasizes safety from the perspective of the field provider.
Prerequisite: junior standing or higher.

FES 3263 Public Safety Educator 3 Credits
Grading Scheme: Letter Grade
Introduces the EMS professional to the education system as it relates to EMS education. Explores issues in curriculum development, teaching, program direction, and development.
Prerequisite: junior or senior standing.

FES 3284 Management of Emergency Medical Services 3 Credits
Grading Scheme: Letter Grade
Personnel and resource management issues in providing emergency medical services function. Quality assurance, utilization review techniques, and practices and techniques for delivery of services and distribution of resources are included.
Prerequisite: junior standing.

FES 3285 Advanced Leadership Issues in Emergency Medical Services 3 Credits
Grading Scheme: Letter Grade
Organizational development issues in providing emergency medical services function in the fire-based, hospital-based and third-service environments. Establishing and directing emergency medical services' work teams is also covered.
Prerequisite: junior standing.

FES 3533 Community Risk Reduction for Emergency Services 3 Credits
Grading Scheme: Letter Grade
Provides a theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk reduction, and a methodology for the development of a comprehensive community risk reduction plan.
Prerequisite: junior or senior standing.

FES 3720 Strategic Planning for FES 3 Credits
Grading Scheme: Letter Grade
Provides the conceptual framework for the development of a strategic plan for emergency management, fire protection, and emergency medical service. Also provides guidance through the process of the needs, resources, and capabilities of the organization and how to establish a plan to achieve improved performance.
Prerequisite: junior standing.

FES 3753 Fire and Emergency Services Financial Management 3 Credits
Grading Scheme: Letter Grade
Planning, developing, presenting, funding and implementing a budget for a fire and emergency services agency. Additional topics include special taxing districts, bond issues and fund-raising campaigns.
Prerequisite: junior standing.

FES 3755 Fire and Emergency Services Capital Equipment and Facilities 3 Credits
Grading Scheme: Letter Grade
Procedures for the acquisition, utilization and disposition of fire and emergency services apparatus and station facilities. Specification and purchasing of apparatus are included. An examination of facility siting, building design and land acquisition and financing is conducted. Additional material addresses special capital purchases such as communications, safety and operational equipment.
Prerequisite: FES 3753 and junior standing.

FES 3780 Analytical Approaches to Fire Protection 3 Credits
Grading Scheme: Letter Grade
Examines the tools and techniques of rational decision making in fire and emergency services agencies, including data collection, statistics, probability, decision analysis, utility modeling, resource allocation, and cost benefit analysis.
Prerequisite: junior or senior standing.

FES 3782 Applications of Fire Research 3 Credits
Grading Scheme: Letter Grade
Examines methodology for analyzing fire-related research; provides a framework for independent research in fire dynamics, fire test standards, fire safety, fire modeling, structural fire safety, life-safety, firefighter safety, automatic detection and suppression, risk analysis and loss control, applied research, and fire-related research trends.
Prerequisite: junior or senior standing.

FES 3803 Multi-Agency Incident Command 3 Credits
Grading Scheme: Letter Grade
Managing complex incidents that may require response from fire-rescue, emergency medical services, law enforcement and/or other public safety sectors. Use of the incident management system is emphasized.
Prerequisite: junior standing.

FES 3815 Command and Control at Catastrophic Fire-Rescue Incidents 3 Credits
Grading Scheme: Letter Grade
Incident command at multiple-alarm incidents, emphasizing rapid fireground decision-making, safety, personnel accountability and communications. Settings for scenarios include multi-family occupancies, hotels, high-rises, healthcare facilities and large retail centers.
Prerequisite: junior standing.

FES 3822 Disaster Policy in Emergency Management 3 Credits
Grading Scheme: Letter Grade
Describes the functional demands that emergency managers should be aware of in crafting effective emergency management plans, policies, and programs. Addresses how public policy choices impact emergency planning and the consequences of a disaster event. Emphasizes the emergency planning process.
Prerequisite: junior or senior standing.

FES 3823 Fire and Emergency Services Integrated Operations 3 Credits
Grading Scheme: Letter Grade
The broad issues involved in comprehensive emergency management at the local level. The emergency management cycle of preparedness, mitigation, response and recovery is emphasized as are the legal, operational and administrative aspects of state and federal interface.
Prerequisite: junior standing.

FES 4003 Fire and Emergency Services Administration 3 Credits
Grading Scheme: Letter Grade
Demonstrates the importance of persuasion and influence, budgeting, anticipation of challenges and change, and management tools for analyzing and solving problems; explores how the leadership of a fire and emergency services department develops internal and external cooperation to achieve the department's mission.
Prerequisite: junior or senior standing.

FES 4014 Foundations of Emergency Management 3 Credits
Grading Scheme: Letter Grade
Examines the history and the principles establishing Emergency Management in the United States. Describes the "Four Phases of Emergency Management," relates processes to codes and laws governing Emergency Management, and examines Emergency Management and the terrorist threat.
Prerequisite: junior or senior standing.

FES 4023 Fire and Emergency Services Ethical Practices and Leadership 3 Credits
Grading Scheme: Letter Grade
The role of agency leadership and its impact on the continuing professionalization of the fire and emergency services. Examines traditional and evolving definitions, practices and skills in leadership behavior, including discussions of power, influence, ethics and organizational behavior.
Prerequisite: senior standing.

FES 4034 Regulatory Issues in Fire and Emergency Services 3 Credits
Grading Scheme: Letter Grade
Introduces safety, health and environmental regulations on the state and federal levels that impact the delivery of fire and emergency services. OSHA, EPA and NFPA regulatory requirements are introduced along with methods and techniques to implement compliance programs.
Prerequisite: FES 4003 and senior standing.

FES 4045 Fire and Emergency Services Human Resource Management 3 Credits
Grading Scheme: Letter Grade
Major human resource management functional areas for fire and emergency services agencies. Topics include organizational employment planning, employment regulation, job analysis, performance assessment, recruitment and regulation, job analysis, performance assessment, recruitment and selection, training and development, employee/labor relations and compensation.
Prerequisite: FES 3015 and senior standing.

FES 4055 Fire and Emergency Services Public Relations 3 Credits
Grading Scheme: Letter Grade
Implementation of principles and methods in advocating factual claims and policy proposals: prepositional analysis, evidence as demonstration, effective reasoning processes and ethics in controversy. Also focuses on public speaking and presentations, especially in the areas of technology, defense of budgets and political leadership.
Prerequisite: senior standing.

FES 4224 Management of Mass Casualty Incidents 3 Credits
Grading Scheme: Letter Grade
Covers systematic approaches to triage, treatment and transport in response to large-scale emergency medical services incidents. Resource planning and coordination with hospital systems is also emphasized.
Prerequisite: senior standing.

FES 4226 EMS Special Operations 3 Credits
Grading Scheme: Letter Grade
Discusses the various special roles in which EMS personnel may serve, such as hazardous materials, water rescue, and technical rescue.
Prerequisite: junior or senior standing.

FES 4234 EMS Community Risk Reduction 3 Credits
Grading Scheme: Letter Grade
Provides a theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk reduction, and a methodology for the development of a comprehensive community risk reduction plan.
Prerequisite: junior or senior standing.

FES 4244 Legal, Political, and Regulatory in EMS 3 Credits
Grading Scheme: Letter Grade
Introduces the EMS professional to the legal aspects of Emergency Medical Services. Explores issues in malpractice, consent and refusal of treatment, OSHA, employment issues, and risk management. EMS students gain insights into the legal liabilities in Emergency Medical Services.
Prerequisite: junior or senior standing.

FES 4274 Quality Management and Research in Emergency Services 3 Credits
Grading Scheme: Letter Grade
Introduces the EMS professional to benefits of quality improvement, the history of quality in EMS, measuring quality, and the uses of quality in EMS.
Prerequisite: junior or senior standing.

FES 4585 Management of Fire Prevention Programs 3 Credits
Grading Scheme: Letter Grade
Planning, promoting and executing fire prevention functions, including an emphasis on legal responsibilities, needs assessments, negotiation and planning activities.
Prerequisite: senior standing.

FES 4685 Fire Investigation and Analysis 3 Credits
Grading Scheme: Letter Grade
Examines the technical, investigative, legal, and social aspects of arson, including principles of incendiary fire analysis and detection, environmental and psychological factors of arson, legal considerations, intervention, and mitigation strategies.
Prerequisite: senior standing.

FES 4804 Disaster Recovery and Mitigation 3 Credits
Grading Scheme: Letter Grade
Provides the opportunity to understand real world disaster response efforts through academic study and interactive applied activities. Topics include the Incident Command System (ICS), Emergency Operations Center (EOC) management, Resource Management (RM), and Command-Communications-Coordination (C3).
Prerequisite: junior or senior standing.

FES 4820 Critical Incident Management for Emergency Managers 3 Credits
Grading Scheme: Letter Grade
Examines disaster planning and emergency management. Focuses on the four phases of planning, mitigation, response, and preparedness. Includes FEMA and federal government NIMS ICS-700 and ICS-800 certifications.
Prerequisite: junior or senior standing.

FES 4825 Disaster Planning and Control 3 Credits
Grading Scheme: Letter Grade
Examines concepts and principles of community risk assessment, planning and response to fires and natural and human-caused disasters, including National Incident Management System--Incident Command Systems (NIMS ICS), mutual aid and automatic response, training and preparedness, communications, civil disturbances, terrorist threats/incidents, hazardous materials planning, mass casualty incidents, earthquake preparedness, and disaster mitigation and recovery.
Prerequisite: FES 3823 and senior standing.

FES 4835 Natural Disaster Phenomena in Florida 3 Credits
Grading Scheme: Letter Grade
Natural disasters prevalent in Florida: past, present, and future, including hurricanes, flooding, freezes, and agricultural emergencies. Also addresses planning, operations, mitigation, recovery, and evaluation concerns.
Prerequisite: junior or senior standing.

FES 4884 Introduction to Terrorism in Emergency Management 3 Credits
Grading Scheme: Letter Grade
Introduces the fundamental concepts, theories, principles, and practice of terrorism and terrorist events.
Prerequisite: junior or senior standing.

FES 4905 Special Studies in Fire and Emergency Services 1-3 Credits
Grading Scheme: Letter Grade
Special areas of study in fire and emergency services adjusted to the needs of individual students.
Prerequisite: instructor permission.

FES 4935 Current Issues in Fire and Emergency Services 3 Credits
Grading Scheme: Letter Grade
Information and direction for fire service administrators on current legislative, legal, labor and/or technology concerns facing fire and emergency services agencies.
Prerequisite: senior standing.

FFP 4507 Management of Fire-Related Human Behavior 3 Credits
Grading Scheme: Letter Grade
Focuses on human behavior in emergencies; examines research on human behavior, systems models, life-safety education, and building design, exploring a best-practice building life-safety system in terms of psychology and sociology joined with engineering and education to produce best outcomes of human survivability in emergencies.
Prerequisite: Junior or Senior standing.

Criminology

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More Info (http://registrar.ufl.edu/soc)

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Courses

CCJ 3024 Advanced Principles of Criminal Justice 3 Credits
Grading Scheme: Letter Grade
Advanced overview of criminal law, criminal procedure and criminological theory. Emphasis on the components of the criminal justice system: the police, the prosecutorial and defense functions, the judiciary and the field of corrections. This course is required of all majors. (S)
Attributes: General Education - Social Science

CCJ 3701 Research Methods in Criminology 4 Credits
Grading Scheme: Letter Grade
Advanced research design and data analysis. Study of experimental and non-experimental research designs; probability and nonprobability sampling techniques; construction of scales; and indexes and methods of bivariate and multivariate data analysis. Previous completion of an introductory course in statistics is recommended but not required. (S) (WR)
Prerequisite: CCJ 3024 and Liberal Arts and Sciences major of junior standing or higher.
Attributes: General Education - Social Science, Satisfies 4000 Words of Writing Requirement

CCJ 4014 Criminological Theory 3 Credits
Grading Scheme: Letter Grade
Advanced study and critical appraisal of various theories of crime causation, including an examination of biological, psychological, economic and sociological perspectives on the etiology of crime.
Prerequisite: CCJ 3024 and Liberal Arts and Sciences major of junior standing or higher.

CCJ 4644 White-Collar Crime 3 Credits
Grading Scheme: Letter Grade
Examines individual criminality in the course of one's occupation and the crimes of organizations and corporations. Studies the societal reaction to these upper class illegalities. (S) (WR)
Prerequisite: CCJ 3024 and Liberal Arts and Sciences major of junior standing or higher.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

CCJ 4681 Intimate Violence 3 Credits
Grading Scheme: Letter Grade
Examines the factors that increase the risk for intimate violence, the effects of violence on victims, interventions to prevent and treat violence, and public policies. Topics include child physical and sexual abuse, domestic violence and sexual assault. Law, social science and feminist scholarship are used to examine current controversies in these fields.
Prerequisite: Liberal Arts and Sciences major of junior standing or higher.

CCJ 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Qualified students and the instructor will develop a course of study or investigation designed to extend available coursework. A formal written report is required. Course can be repeated, but no more than three credits earned in CCJ 4905 may be applied to the major or to minimum degree requirements established by the university.
Prerequisite: CCJ 3024, 3LS or 4LS major, and instructor permission.

CCJ 4911 Undergraduate Research in Criminology 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Criminology. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Criminology.

CCJ 4934 Contemporary Issues in Criminal Justice 3 Credits
Grading Scheme: Letter Grade
A variable topic seminar that examines current issues, techniques and problems in criminal justice.
Prerequisite: CCJ 3024 and Liberal Arts and Sciences major of junior standing or higher.

CCJ 4940 Practicum 1-3 Credits
Grading Scheme: S/U
Supervised experience in a criminal justice agency. Course can be repeated, but no more than three credits earned in CCJ 4905 may be applied to the major or to minimum degree requirements established by the university. (S-U)
Prerequisite: CCJ 3024, 3LS or 4LS major, and instructor permission.

CCJ 4970 Senior Thesis 3 Credits
Grading Scheme: Letter Grade
Qualified students submit a formal research proposal, carry out individual research under the supervision of a faculty member and prepare a formal written report of the research to a faculty committee. Course can be repeated, but no more than six credits earned in CCJ 4905 may be applied to the major or to minimum degree requirements established by the university.
Prerequisite: CCJ 3024 and director permission.

CJC 4010 Introduction to Corrections 3 Credits
Grading Scheme: Letter Grade
Introduces the field of penology and corrections. Consideration is given to conflicting philosophies of punishment; criminological theory as it applies to the field of corrections; the selectivity of the process through which offenders move before their involvement in correctional programs; alternative correctional placements; and empirical assessments of the short-term and long-term consequences of involvement in correctional programs. (S)
Corequisite: CCJ 3024 and 3LS or 4LS major.
Attributes: General Education - Social Science

CJE 3114 Introduction to Law Enforcement 3 Credits
Grading Scheme: Letter Grade
The role of the police in the criminal justice system of a democratic society. Topics include the organization of police work, discretion and the role of law enforcement in a socio-legal context.
Corequisite: CCJ 3024 and 3LS or 4LS major.

CJE 4144 Private Security and Control 3 Credits
Grading Scheme: Letter Grade
Understanding the role of private security in the prevention of crime. Examines deviance against the assets of formal organizations and their employees, such as business corporations, retail stores and educational institutions.
Prerequisite: CCJ 3024 with a minimum grade of C and Liberal Arts and Sciences major of junior standing or higher.

CJJ 4010 Juvenile Justice 3 Credits
Grading Scheme: Letter Grade
Examines the development, change and operation of the American juvenile justice system. Emphasizes the nature of juvenile law and the methods of dealing with youthful offenders. (S)
Prerequisite: 2LS or 3LS major.
Attributes: General Education - Social Science

CJL 2000 Law and the Legal Process 3 Credits
Grading Scheme: Letter Grade
Understanding the law as it relates to everyday encounters with the legal system. Actual legal cases may be studied to analyze how disputes are resolved by application of legal principles to factual situations, whether justice was served by the decision and the potential implications of the decision on future cases. (S)
Attributes: General Education - Social Science

CJL 3038 Law and Society 3 Credits
Grading Scheme: Letter Grade
Introduces the scholarly study of law from a multidisciplinary, liberal arts perspective. Examines legal ideas, legal institutions and the legal process with emphasis on the study of criminal behavior and the American criminal justice process.

CJL 4037 Psychology and Law 3 Credits
Grading Scheme: Letter Grade
Application of behavioral science research and practice to the legal system. Topics include psychologists and the legal system; lawyers' socialization, training and ethics; legality, morality and justice; forensic assessment; the insanity defense; competence in the legal system; eyewitness identification; jury selection; theories of crime; and punishment and sentencing.
Prerequisite: CCJ 3024 and Liberal Arts and Sciences major of junior standing or higher.

CJL 4050 Juvenile Law 3 Credits
Grading Scheme: Letter Grade
Examines the juvenile justice system, including delinquency, dependency and laws that apply especially to juveniles. Studies operation of the Florida juvenile code and the relationship between children and society.
Prerequisite: CCJ 3024 and Liberal Arts and Sciences major of junior standing or higher.

CJL 4110 Criminal Law 3 Credits
Grading Scheme: Letter Grade
Studies substantive criminal law, including historical development, the tension between social and legal definitions of crime, the basic dimensions of criminality, the specific elements of major crimes and the nature of criminal sanctions. (S)
Attributes: General Education - Social Science

CJL 4410 Criminal Procedure 3 Credits
Grading Scheme: Letter Grade
Studies constitutional rights of the accused in criminal proceedings. Focuses on analysis of case materials involving the law of arrest, search and seizure, the use of confessions, fair trial and the prohibition of cruel and unusual punishments.
Prerequisite: CCJ 3024 and Liberal Arts and Sciences major of junior standing or higher.

IDH 2931 Honors Seminar 3 Credits
Grading Scheme: Letter Grade
Special topics restricted to those in the university-wide Honors Program. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

Czech | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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CZE 1130 Introduction to Czech Language and Culture 1 5 Credits
Grading Scheme: Letter Grade
CZE 1130 and its sequel, CZE 1131, offer a comprehensive introduction to Czech, using interactive methods to develop competence in speaking, listening, reading, writing and cultural interaction.

CZE 1131 Introduction to Czech Language and Culture 2 5 Credits
Grading Scheme: Letter Grade
Continuation of series. A comprehensive introduction to Czech, using interactive methods to develop competence in speaking, listening, reading, writing and cultural interaction.
Prerequisite: CZE 1130 with minimum grade of C, or S, or the equivalent.

CZE 2200 Intermediate Czech 1 3 Credits
Grading Scheme: Letter Grade
Builds reading and writing skills while continuing to develop conversational ability and listening comprehension. Using a communicative approach, provides an overview of Czech grammar.
Prerequisite: CZE 1131 with minimum grade of C, or S, or the equivalent.

CZE 2201 Intermediate Czech 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study. Goal is to further develop speaking, listening, reading and writing skills.
Prerequisite: CZE 2200 with minimum grade of C, or S, or the equivalent.

CZT 3564 Modern Czech Culture and Society 3 Credits
Grading Scheme: Letter Grade
Overview of Czech literature, film, music, pop culture and visual arts as they were shaped by the events from 1918 to the present. (H and N)
Attributes: General Education - Humanities, General Education - International

Dial Center for Written and Oral Communication

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Courses

COM 1000 Introduction to Communication Studies 3 Credits
Grading Scheme: Letter Grade
Introduces various theoretical perspectives for understanding human communication. (S)
Attributes: General Education - Social Science

COM 3125 Organizational Communication 3 Credits
Grading Scheme: Letter Grade
Explores the processes, practices and difficulties of communication among large groups engaged principally in the work environment. Examines organizational structures, patterns of communication, task and social roles, extrinsic influences and methods of producing intrinsic motivation and innovation.

COM 3462 Interpersonal Conflict Management 3 Credits
Grading Scheme: Letter Grade
Introduces fundamental communication skills, principles, theories and research relevant to effective conflict management in a variety of interpersonal contexts and relationships.
Prerequisite: COM 1000 or SPC 2300 or instructor permission.

COM 3465 Conflict Management and Negotiation in the Professions 3 Credits
Grading Scheme: Letter Grade
Introduces fundamental concepts and skills relevant to effective communication in business and professional conflicts. Topics include conflict management, ADR, and interpersonal, organizational, community and international negotiation. Emphasizes helping students to understand and improve the conflict management and negotiation skills required in their professional careers.
Prerequisite: COM 1000 or SPC 2608 or instructor permission.

COM 4013 Family Communication 3 Credits
Grading Scheme: Letter Grade
Provides students with an understanding of how communication functions to develop, maintain, enrich, or limit family relationships.
Prerequisite: COM 1000 or SPC 2300 or instructor permission.

COM 4022 Health Communication 3 Credits
Grading Scheme: Letter Grade
Surveys theory, research and practice of communication in the contexts of healthcare and health promotion. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

COM 4706 Language and Power 3 Credits
Grading Scheme: Letter Grade
Explores the role of language in articulating, maintaining, and subverting power relations in society. Drawing from Communication Studies and Applied Linguistics, the course provides the tools to uncover, describe, and critically analyze the various strategic biases in language that create and reinforce power asymmetries in society.
Prerequisite: COM 1000 or SPC 2300 for Communication Studies minor; LIN3010 for LIN major; with instructor permission.
Attributes: General Education - Diversity, General Education - Social Science

COM 4911 Undergraduate Research in Communication Studies 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Communication Studies. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Communication Studies.

COM 4930 Special Topics in Communication 3 Credits
Grading Scheme: Letter Grade
Seminar study of theory and research in a specific area of communication.
Prerequisite: COM 1000 or equivalent.

LIS 2001 Introduction to Library and Internet Research 1 Credit
Grading Scheme: Letter Grade
Learn how to conduct solid and reliable library research. Critical thinking skills are used to find, evaluate and use relevant scholarly resources in a variety of disciplines. This dynamic, hands-on course emphasizes creative thinking and media production tools while exploring the social responsibilities of using digital age information.

SPC 2300 Introduction to Interpersonal Communication 3 Credits
Grading Scheme: Letter Grade
Studies how two people interact with one another and how factors such as listening skills, gender and culture influence that communication. (S)
Attributes: General Education - Social Science

SPC 2351 Listening 3 Credits
Grading Scheme: Letter Grade
Theory and practice in responsible, participatory listening. Also includes principles of listening for literal comprehension and critical evaluation of ideas in response to various spoken and nonverbal messages.

SPC 2594 Intercollegiate Forensics 1 Credit
Grading Scheme: Letter Grade
Participation in intercollegiate debate and individual speaking.
Prerequisite: satisfactory completion of one semester of intercollegiate forensics participation at UF before registering for this course.

SPC 2608 Introduction to Public Speaking 3 Credits
Grading Scheme: Letter Grade
Theory and practice presenting public speeches, determining communication purpose(s) and adapting to organization, evidence, language and other message characteristics for designated audiences.

SPC 3331 Nonverbal Communication 3 Credits
Grading Scheme: Letter Grade
Surveys theory and research in nonverbal communication including eye behavior, facial expressions, gestures and vocal cues.
Prerequisite: COM 1000.

SPC 3513 Argumentation 3 Credits
Grading Scheme: Letter Grade
Implementation of principles and methods advocating factual claims and policy proposals. Also discusses propositional analysis, evidence as demonstration, effecting reasoning processes to become experimental for listeners and ethics in controversy.
Prerequisite: SPC 2608 or instructor permission.

SPC 3602 Advanced Public Speaking 3 Credits
Grading Scheme: Letter Grade
Studies principles and methods of selected forms of public speaking for various purposes, audiences and contexts.
Prerequisite: SPC 2608 or equivalent.

SPC 4301 Advanced Interpersonal Communication 3 Credits
Grading Scheme: Letter Grade
Analysis of interpersonal communication in various professional and social settings shown through case studies, role plays and discussion that all illustrate how emotions and social expectations shape communication.
Prerequisite: SPC 2300 or instructor permission.

SPC 4425 Small Group Communication 3 Credits
Grading Scheme: Letter Grade
Communication in small groups with emphasis in practical applications, skill development and current research and theory.
Prerequisite: COM 1000.

SPC 4710 Patterns of Intercultural Communication 3 Credits
Grading Scheme: Letter Grade
Explores practices and difficulties of communication between and among people of contrasting cultures. Includes investigation of theory and research by which intercultural communication problems can be mitigated. (N and S) (WR)
Prerequisite: COM 1000 or equivalent.
Attributes: General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

SPC 4905 Directed Individual Study in Communication Studies 1-3 Credits
Grading Scheme: Letter Grade
Directed individual study in communication studies designed for the advanced student who wants to pursue an in-depth area of study not provided in regularly offered courses. Directed individual study could involve independent readings or individual projects under faculty guidance.
Prerequisite: instructor permission.

SPC 4911 Undergraduate Research in Speech Communication 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in speech communication. Projects may involve inquiry, design, investigation, scholarship, discovery, or application in speech communication.

Digital Worlds Institute

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Courses

DIG 2005 Introduction to Digital Technologies 3 Credits
Grading Scheme: Letter Grade
Comprehensive introduction to fundamental digital technologies and computing concepts; covers history of computing, binary arithmetic, Boolean logic, file formats, computer architecture, databases, networking, security/privacy, and ethics.

DIG 2121 Principles of Digital Visualization 3 Credits
Grading Scheme: Letter Grade
Develops appreciation and basic fluency in the application of visual and design literacy into emergent forms of digital media. Historical and theoretical perspectives inform hands-on learning across topics including pre-visualization and storyboarding in static and time-based media, and the critical analysis of contemporary and iconic visual storytelling.

DIG 2632 Creating Mobile Games 3 Credits
Grading Scheme: Letter Grade
Introduces designing mobile video games with simple drag and drop programming and basic asset creation. Covers the essential principles of design and development needed to create effective arcade-style games. Provides a solid foundation in the technical skills needed to create multi-platform mobile games.

DIG 2930 Special Topics: Foundations of Digital Culture 3 Credits
Grading Scheme: Letter Grade
In-depth examination of the technological and cultural underpinnings that shape current electronic media including video games, the internet, computer-animated movies, and virtual reality.

DIG 2931C Special Topics in Digital Media 1-3 Credits
Grading Scheme: Letter Grade
Special topics course to address contemporary digital arts and sciences issues. This flexible pedagogic mechanism provides DAS a dimension of vitality that compliments theory-based offerings with an up-to-the-minute examination of emergent cultural and technological events and developments.
Prerequisite: instructor permission.

DIG 3020 Foundations of Digital Culture 3 Credits
Grading Scheme: Letter Grade
Interdisciplinary overview of the technological and cultural developments that continue to shape the modern world. Student research covers topics including telecommunications, digital and analog technologies, video games, computer-generated entertainment and the rise of social media. (WR)
Prerequisite: (Digital Arts and Sciences BA or BS major) or instructor permission.
Attributes: Satisfies 4000 Words of Writing Requirement

DIG 3097 Entrepreneurship in New Media 3 Credits
Grading Scheme: Letter Grade
Using an interdisciplinary approach, acquire fluency in techniques of idea generation, innovation, internet startups, video games, mobile applications, promotion and branding, company boot strapping, and business plan creation. Focuses on developing creative and business skills applicable to new media startups.
Prerequisite: Digital Arts and Sciences BA major.

DIG 3305C 3D Digital Animation Techniques 3 Credits
Grading Scheme: Letter Grade
Introduces the foundations of creating 3D digital environments and animations; implement industry-standard animation principles and practices, including reference-centric animation and polygonal modeling.
Prerequisite: DAR major and and DIG 3313C with minimum grade of C..

DIG 3313C 2D Digital Animation Techniques 3 Credits
Grading Scheme: Letter Grade
Introduces foundational knowledge of animation in a 2D space; learn how to design and implement character, abstract, and shape animation.
Prerequisite: Digital Arts and Sciences BA major.

DIG 3433 Digital Storytelling 3 Credits
Grading Scheme: Letter Grade
Develops a framework for integrating participation and storytelling as the foundation of interactivity. Explores how story is incorporated into contemporary interactive platforms such as games and other digital media, including virtual worlds, video blogs and social networks.
Prerequisite: Digital Arts and Sciences BA major with junior standing or higher.

DIG 3506 Interdisciplinary Design Methods for Digital Arts and Sciences 2 Credits
Grading Scheme: Letter Grade
Comprehensive overview of industry and academy standard design methods and processes. Interdisciplinary design practices from process-focused fields like interaction design, human-centered design, design research and computer-supported collaborative work. Construction and delivery of needs analyses, audience analyses, and design documents, and iterative design practices including rapid prototyping, user-testing, real-time research, conceptual design and agile development. Students will use one of these design frameworks to take a DAS design prototype from conceptualization to user-testing.
Prerequisite: Digital Arts and Sciences BA major with junior standing or higher.

DIG 3525C DAS Design and Production Studio 1 3 Credits
Grading Scheme: Letter Grade
Provides digital imaging and design foundations in visualization. Also offers an introduction to the foundation of interface tools in industry standard digital imaging software.
Prerequisite: Digital Arts and Sciences BA major.

DIG 3526C DAS Design and Production Studio 2 3 Credits
Grading Scheme: Letter Grade
Working within an interdisciplinary digital arts and sciences (DAS) design and production studio environment, students will focus on network and Internet-based technologies, delivery systems and content generation. Students will participate in the creation of two major collaborative group projects or one major semester-long project.
Prerequisite: Digital Arts and Sciences BA major and DIG 3525C with minimum grade of C.

DIG 3588C Digital Portfolio 1-3 Credits
Grading Scheme: Letter Grade
Provides technical and design skills for the creation of a digital portfolio with interactive media suitable for distribution, including DVD and a portfolio website. Also covers techniques for using and linking social media, digital branding and personal marketing.
Prerequisite: Digital Arts and Sciences BA major of junior standing or higher.

DIG 3691 Blockchain Innovation in Digital Arts and Sciences 3 Credits
Grading Scheme: Letter Grade
Comprehensive survey of relevant topics in blockchain and its impact on digital arts and sciences; provides an overview of the technology behind blockchain and explores current and potential real-world applications in arts, digital entrepreneurship, and creativity.
Prerequisite: DAR major and junior standing or higher.

DIG 3713 Game Design Practices 3 Credits
Grading Scheme: Letter Grade
Provides both theoretical and practical knowledge and essential technical skills for the conceptualization and digital visualization of video game assets. Covers the principles and practical applications of industry-standard software suites. Emphasizes developing strong foundational skills, compelling conceptual ideas, and self-motivated problem solving.
Prerequisite: Digital Arts and Sciences BA major of junior standing or higher.

DIG 3873 Theory of Digital Media Protocols 3 Credits
Grading Scheme: Letter Grade
Covers the theory behind the design of digital media systems, data-flow logic, binary data structures and pseudo-code description of computational algorithms. The students will be exposed to fundamental principles of computer coding and scripting and protocols of communication between digital systems.
Prerequisite: Digital Arts and Sciences BA major of junior standing or higher.

DIG 3878 Applied Digital Media Protocols 3 Credits
Grading Scheme: Letter Grade
Introduces contemporary protocols for mobile application development. Topics include procedural and object-oriented programming, mobile software development practices, design and implementation of natural human-computer interaction for mobile and wearable platforms. Students will develop skills in programming their own applications with graphical user interfaces for portable digital media systems.
Prerequisite: DIG 3873 with minimum grade of C.

DIG 4151 Advanced Writing for Interactive Media 3 Credits
Grading Scheme: Letter Grade

DIG 4154 Writing for Interactive Media 3 Credits
Grading Scheme: Letter Grade
Provides in-depth analysis and opportunity to hone writing skills needed in the creation and development of interactive digital media. Students will investigate approaches for generating high-quality writing and the blend between development, planning, technical and creative writing through writing the documents to support a digital media project's development and production.
Prerequisite: Digital Arts and Sciences BA major of senior standing.

DIG 4171C Digital Tools for Arts and Humanities 3 Credits
Grading Scheme: Letter Grade
Study of digital applications, games, tools, and social networks to enhance research in the arts and humanities; examines and expands on current theoretical discussions, applications, and methodologies. An interdisciplinary group project embraces collaborative research and offers hands-on experience with digital tools.
Prerequisite: Junior level or higher

DIG 4255C Audio Design for Digital Production 3 Credits
Grading Scheme: Letter Grade
Professional techniques for the creation of audio content for variety of applications in the digital arts and sciences. Software tools for conversion, storing, processing and retrieval of sound in a variety of digital formats. Fundamentals of loop-based audio design, sampling and work with an industry standard software with linear and interactive digital media.
Prerequisite: Digital Arts and Sciences BA major of senior standing.

DIG 4283 Music and Sound Design for Digital Media 3 Credits
Grading Scheme: Letter Grade
Investigates techniques, tools and current research in music and sound design for digital media for DAR and DAS non-music majors.

DIG 4306C Advanced Digital Animation Techniques 3 Credits
Grading Scheme: Letter Grade
Practical principles and techniques of 3D software environments for animation. Includes triangular mesh design and editing, splines (NURBS), shading techniques and lighting, different camera projection models, rendering techniques, and efficient use of GPU for photo realistic real-time 3D animation.
Prerequisite: (Digital Arts and Sciences BA major and DIG 3305C with minimum grade of C) or instructor permission.

DIG 4354 3D Character Animation 3 Credits
Grading Scheme: Letter Grade
This course teaches techniques for 3D character animations. Students will practice character development, pipeline management, procedural framework simulation, and basic rigging alongside studies of motion picture animation. By the end of the course, students will master industry-standard tools to animate basic 3D objects, 3D bipedal motion, and key-framing.
Prerequisite: DAR major and DIG4306C with minimum grade of C.

DIG 4361C Advanced 2D Digital Animation Techniques 3 Credits
Grading Scheme: Letter Grade
Develop advanced industry-standard practices in digital 2D animation. Within a collaborative environment, create a 30 second film in order to learn the production pipeline, time management, and task allocation while demonstrating advanced animation techniques.
Prerequisite: DIG 3313C with minimum grade of C and DAR major.

DIG 4527C Game Design and Production 3 Credits
Grading Scheme: Letter Grade
Interdisciplinary approach to game design and production. Emphasizes rapid prototyping, agile design, collaboration, and project management in a relatively short development cycle. Work on idea pitches, write concept proposals, and work to develop a video game.
Prerequisite: DAR major and DIG 4715C with minimum grade of C.

DIG 4540C Production of Immersive Environments 3 Credits
Grading Scheme: Letter Grade
This course is a project-based class that will cover the foundational knowledge of immersive technologies such as AR and VR. The course provides hands-on experience developing a fully functioning immersive experience prototype.
Prerequisite: DIG 3305C and DIG 3878 with minimum grades of C, and DAR major with junior standing or above.DIG4540C

DIG 4583C DAS Design and Production Studio 4 3 Credits
Grading Scheme: Letter Grade
As the capstone academic experience resulting from work within the interdisciplinary DAS environment, students will choose their own semester-long project that solves a problem or presents a new technical or cultural capability via enhanced human-computer interaction.
Prerequisite: DAR major and DIG 4527C with minimum grade of C.

DIG 4634 Wearable and Mobile App Development 3 Credits
Grading Scheme: Letter Grade
Examines software development protocols for wearable and mobile electronics such as head-mounted displays, watches, and cellphones. Studies several embedded input/output interfaces, including position and orientation sensors, hand trackers, holographic, and stereoscopic displays. Materials are practiced by developing prototype software applications for such devices.
Prerequisite: DIG 3878 with minimum grade of C.

DIG 4715C Game Development 3 Credits
Grading Scheme: Letter Grade
Elaborates on concepts, processes and technical practices introduced in DIG3713C; use game design fundamentals to craft effective digital games. Detailed examination of conceptual techniques in game design and their use in DAS design practice; comparative introduction of frameworks for game design; technical components of 2D and 3D game design.
Prerequisite: DIG 3873 and (DIG 3713 or DIG 3525C), all with minimum grades of C, and DAR major.

DIG 4841 Undergraduate Research Forum 3 Credits
Grading Scheme: Letter Grade
Seminar focuses on collaborative interdisciplinary research in the digital arts and sciences. Develop, refine, and present research projects and process related to traditional and contemporary industry concerns, practices, and trajectories.
Prerequisite: DAR major and senior standing.

DIG 4905 Independent Study 1-4 Credits
Grading Scheme: Letter Grade
Independent study of special or individual DIG projects and issues, under faculty supervision.
Prerequisite: consent of faculty member supervising the study.

DIG 4917 Undergraduate Research in DAS 0-3 Credits
Grading Scheme: S/U
Provides research experience at the intersection of digital arts and sciences. Research assistants work directly with faculty to explore and produce various research in interactive tools and technologies. Accelerate professional development as both a researcher and digital artist.
Prerequisite: Junior level or higher.

DIG 4932 Colloquium in Digital Arts and Sciences 1 Credit
Grading Scheme: S/U
Seminars explores current affairs in the field of digital arts and sciences. Research, communicate, and analyze the contemporary trends in digital arts and sciences.
Prerequisite: DAR major and senior standing.

DIG 4940 Internship 1-3 Credits
Grading Scheme: S/U
Internship encourages reflection on position, company, industry, and experience. After completing the assignments, students should be able to articulate the role internship had in their career development.
Prerequisite: DAR major.

DIG 4942 Undergraduate Course Assistant 0-3 Credits
Grading Scheme: S/U
Provides hands-on experience teaching digital arts and sciences at the college level. Under the supervision of a faculty member, lab assistants help prepare and discuss course materials, work with students during office hours, and play a critical role in facilitating learning.
Prerequisite: DAR major and junior or higher standing.

DIG 4944C Production Practicum 0-3 Credits
Grading Scheme: S/U
Production Practicum will provide DAS students hands-on experience producing and executing real-world digital media projects. Students will participate in many production roles, collaborating with peers and clients in a professional studio environment. In the process, students will accelerate their professional development as a producer within the digital arts and sciences.
Prerequisite: Junior level or higher.

DIG 4970 Senior Project in DAS 2-3 Credits
Grading Scheme: Letter Grade
Successful completion of this capstone experience demonstrates mastery of requisite knowledge, technical acumen, and problem solving skills in the digital arts and sciences. May be either an individual or team-based project.
Prerequisite: senior status enrolled in the BA in DAS program.

Dutch | Languages, Literatures, and Cultures

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Courses

DUT 1130 Beginning Dutch 1 5 Credits
Grading Scheme: Letter Grade
DUT 1130 and its sequel, DUT 1131, constitute the basic sequence in Dutch for the development of overall skill in the language. Open to those with little or no background in Dutch.

DUT 1131 Beginning Dutch 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence in Dutch for the development of overall skill in the language. Open to those with little or no background in Dutch.
Prerequisite: DUT 1130 with minimum grade of C, or S, or the equivalent.

Economics

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Courses

ECO 2013 Principles of Macroeconomics 4 Credits
Grading Scheme: Letter Grade
The nature of economics, economic concepts and institutions; growth, unemployment and inflation; money and banking; economic policies; and the international economy. (S)
Attributes: General Education - Social Science

ECO 2023 Principles of Microeconomics 4 Credits
Grading Scheme: Letter Grade
Theories of production, determination of prices and distribution of income in regulated and unregulated industries. Attention is also given to industrial relations, monopolies and comparative economic systems. (S)
Attributes: General Education - Social Science

ECO 2310 Economics of Sustainability 3 Credits
Grading Scheme: Letter Grade
Examines issues of environmental sustainability from an economic perspective. Discusses economic treatment of renewable and nonrenewable resources, land constraints, and global climate change. Identifies potential policy solutions grounded in economic theory.

ECO 3101 Intermediate Microeconomics 4 Credits
Grading Scheme: Letter Grade
Nature, scope and purpose of economic analysis. Examines the theory of consumer behavior, production, costs, firm behavior and the allocation of resources. (S)
Prerequisite: (ECO 2023 and (MAC 2233 or higher level calculus course)) or AEB 3103
Attributes: General Education - Social Science

ECO 3203 Intermediate Macroeconomics 4 Credits
Grading Scheme: Letter Grade
Theoretical determinants of aggregate employment, income, expenditures and the price level. Keynesian and neoclassical models are analyzed.
Prerequisite: ECO 2013 and ECO 2023 and (MAC 2233 or higher level calculus course).

ECO 3532 Public Choice 4 Credits
Grading Scheme: Letter Grade
Role of voters, special interests, legislators and the bureaucracy in determining government expenditure, taxation and other economic policies. Economic models of voting and the structure of governments. (S)
Prerequisite: ECO 2023.
Attributes: General Education - Social Science

ECO 3704 International Trade 4 Credits
Grading Scheme: Letter Grade
Theory of international trade and commercial policy. Current issues in international trade, comparative advantage, scale economics, the economics of tariff and non-tariff barriers. International factor movements and multinational firms. Political economy of trade restrictions, strategic trade policy and trade negotiations.
Prerequisite: ECO 2013 and ECO 2023.

ECO 3713 International Macroeconomics 4 Credits
Grading Scheme: Letter Grade
Macroeconomic theory of an open economy. Current monetary issues of the world economy. The international monetary system, exchange rate determination, balance of payments adjustment mechanism, international financial institutions and their policies. Macroeconomic policies and national income determination in an open economy.
Prerequisite: ECO 2013 and (ECO 2023 or AEB 3103).

ECO 4104 Economics of Competitive Strategy 4 Credits
Grading Scheme: Letter Grade
Focuses on identification and analysis of competitive strategies in expanding markets. Draws on strategic management, the economics of technological change and RD investments, and dynamic game theory, to address challenges faced by firms. Examines demand-based network externalities, the dynamics of pricing rivalry, industry evolution, RD strategies entry and exit decisions.
Prerequisite: ECO 2013 and ECO 2023 and (ECO 3101 or ECO 3704) and (MAC 2233 or higher).

ECO 4213 Monetary Economics 4 Credits
Grading Scheme: Letter Grade
An integrated examination of how banks impact the money supply, monetary policy and financial markets. Topics include: the historical features of money; banking and money supply; goals and tools of monetary policy; and banks as financial intermediaries.
Prerequisite: ECO 2013 and ECO 2023.

ECO 4270 Economic Growth 4 Credits
Grading Scheme: Letter Grade
Examines global history of economic growth and development. Introduces classical and modern theories of economic growth. Develops mainstream models of exogenous and endogenous growth. Compares insights from these models to real-world data.
Prerequisite: (MAC 2233 or higher) and (ECO 3101 or ECP 3703)

ECO 4400 Game Theory and Applications 4 Credits
Grading Scheme: Letter Grade
Introduces modern game theory, including the formal theory of Nash equilibrium and solutions techniques. Applications include strategic barriers of entry; cooperative behavior in oligopoly, auctions and bidding strategies; and durable goods sales.
Prerequisite: ECO 2023 and (MAC 2233 or MAC 2234 or MAC 2311 or MAC 2312 or MAC 2313) and (ECO 3101 or ECP 3703).

ECO 4401 Mathematical Economics 4 Credits
Grading Scheme: Letter Grade
Introduces fundamental mathematical tools employed in economic analysis. Covers comparative static analysis, introduces linear algebra, constrained and unconstrained optimization, and dynamic analysis using differential and difference equations. Examines applications from a wide range of subfields in economics, including consumer theory, macroeconomics, economic growth, and environmental economics.
Prerequisite: (ECO 2013 and ECO 2023 and ECO 3101) or (ECO 3203 and MAC 2233 or higher).

ECO 4421 Econometrics 4 Credits
Grading Scheme: Letter Grade
Introduces concepts and methods used in empirical economic research. Emphasizes practical use of basic econometric techniques to estimate economic relationships and evaluate policy. Covers topics needed to plan and implement empirical projects, and understand potential problems with the empirical analyses of others.
Prerequisite: STA 2023 and (MAC 2233 or higher) and ECO 3101.

ECO 4422 Econometrics 2 4 Credits
Grading Scheme: Letter Grade
Introduces advanced concepts and methods employed in empirical economic analysis. Focuses on identification of causality using regression techniques. Examines regression discontinuity and difference-in-differences identification strategies.
Prerequisite: ECO 4421.

ECO 4504 Public Economics 4 Credits
Grading Scheme: Letter Grade
Market failures and the role of the government in providing goods and services, like education and infrastructure, in a market economy. The role of the government in the provision of various types of social insurance like health insurance, social security and welfare. The effects of taxes on economic behavior.
Prerequisite: ECO 2013 and ECO 2023 and (MAC 2233 or higher) and (ECO 3101 or ECP 3703).

ECO 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
For advanced undergraduate students who need to supplement regular coursework by individual studies under guidance. Counted as a free elective credit only.
Prerequisite: senior standing, 10 credits of economics and department permission.

ECO 4934 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Variable content providing an opportunity for the study in-depth of topics not offered in other courses.
Prerequisite: ECO 2013 and ECO 2023.

ECO 4935 Empirical Research in Economics Seminar 4 Credits
Grading Scheme: Letter Grade
After getting some background in economic empirical methodology, statistics, and statistical software and discussing some representative empirical papers, each economics student develops an empirical model and subjects it to statistical testing, helped by several class presentations.
Prerequisite: ECO 2013 and ECO 2023.

ECO 4941 Internship in Economics 1-3 Credits
Grading Scheme: S/U
Applied work in economics. Requires several papers and reports. Counted as a free-elective credit only. (S-U)
Prerequisite: department permission.

ECO 4956 International Studies in Economics 1-4 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.

ECO 4970 Honors Thesis 1-4 Credits
Grading Scheme: S/U
A thesis is required for the awarding of the magna cum laude or summa cum laude designations. To qualify, students will normally have completed 90 semester credits of coursework (exceptions may be made by the honors coordinator of the student's major department) and must have at least the grade point average (3.6) required for the magna cum laude designation at the time they enroll. The thesis will be reviewed by at least one faculty member chosen by the honors coordinator for the student's major department. Counted as a free-elective credit only. (S-U)
Prerequisite: 90 credits earned and 3.6 UF GPA.

ECP 3006 Economics of Sports 4 Credits
Grading Scheme: Letter Grade
Examines the business of sports using economic theory as a framework for analysis. Topics covered include the economics of sports leagues, labor negotiations and arbitration, pricing decisions, discrimination, corruption in sports, gambling, sports memorabilia and antitrust policy.
Prerequisite: ECO 2023 and (MAC 2233 or higher level calculus course) and (ECO 3101 or ECP 3703).

ECP 3203 Labor Economics 4 Credits
Grading Scheme: Letter Grade
Determinants of demand for labor and labor supply. Labor market equilibrium and changes in the equilibrium due to changes in unionization, public policies, technology and trade. Study of the effects of skill, job amenities and discrimination on wage differentials. (S)
Prerequisite: ECO 3101 or ECP 3703
Attributes: General Education - Social Science

ECP 3302 Environmental Economics and Resource Policy 4 Credits
Grading Scheme: Letter Grade
The relations between environmental quality, resource utilization, and economic institutions and policy. Examines alternative strategies and policies in solving the problems of environmental quality and resource scarcity. (S)
Prerequisite: ECO 2023. Credit will not be awarded for both ECP 3302 and AEB 3450.
Attributes: General Education - Social Science

ECP 3403 Industrial Organization 4 Credits
Grading Scheme: Letter Grade
Examines the structure of markets and the behavior of firms operating in imperfectly competitive markets. Develops models of imperfectly competitive markets and compares the insights and predictions from each. Investigates firms' strategic profit-maximizing decisions regarding prices, product differentiation, market entry and exit, and product promotion.
Prerequisite: ECO 2023, (MAC 2233 or higher level calculus course), and (ECO 3101 or ECP 3703)

ECP 3510 Economics of Education 4 Credits
Grading Scheme: Letter Grade
Uses economic concepts to analyze the education system and education policy options. Topics covered include class size, No Child Left Behind legislation, public vs. private schools, and vouchers.
Prerequisite: ECO 2023.

ECP 3530 Health Care Economics 4 Credits
Grading Scheme: Letter Grade
Analysis of health care markets, employing efficiency and equity criteria. Evaluation of current health care policies and their effects on cost, access and quality. Topics covered include the production of and demand for health and medical care; information asymmetrics between patients, doctors, and payers; health insurance coverage; the effects of managed care (including HMOs) on competition, efficiency, and quality; training and practice of physicians; hospitals; prescription drug pricing; government regulations; Medicare and Medicaid; health care reform.
Prerequisite: ECO 2023.

ECP 3703 Managerial Economics 4 Credits
Grading Scheme: Letter Grade
Analysis of the firm's decisions regarding prices, outputs and inputs, advertising, etc. under various market conditions. Reliance is placed upon both theories and applications.
Prerequisite: ECO 2023 and MAC 2233 or higher. Credit will not be awarded ECO 3101 and ECP 3703.

ECP 4403 Government Regulation of Business 4 Credits
Grading Scheme: Letter Grade
The evolution, statutory foundation and methods of governmental regulation. Antitrust regulation of competitive practices. (S)
Prerequisite: ECO 2023 and (MAC 2233 or higher level calculus course) and (ECO 3101 or ECP 3703).
Attributes: General Education - Social Science

ECP 4451 Law and Economics 4 Credits
Grading Scheme: Letter Grade
Analyzes the interaction between law and economics, and evolution of legal rules; efficiency of alternative rules on pollution and public goods, enforcement of contracts, deterrence of crime, and protection of consumers; and efficiency versus fairness.
Prerequisite: ECO 2023 and (MAC 2233 or higher level calculus course) and (ECO 3101 or ECP 3703).

ECS 3403 Economic Development of Latin America 4 Credits
Grading Scheme: Letter Grade
A critical assessment of Latin American political economy and economic development. Topics covered include economic history from the colonial period forward; commodity price cycles and balance of payment fluctuations; import substitution industrialization; international indebtedness; trade liberalization; inflation stabilization policies; poverty eradication difficulties.
Prerequisite: ECO 2013 and ECO 2023.

ECS 4013 Economic Development 4 Credits
Grading Scheme: Letter Grade
Examines different theories of economic growth and development of low-income and middle-income countries. Covers microeconomic and macroeconomic models relevant to understanding development and analyzing various policy proposals. Analyzes history and empirical evidence of global economic growth and development.
Prerequisite: ECO 2013, ECO 2023, MAC 2233 or higher, and ECO 3101

ECS 4110 Africa in the Global Economy 4 Credits
Grading Scheme: Letter Grade
Examines the African continent position globally, looking both at the challenges as well as at the options available to African nations to get a fair and better deal in the global economy. Main topics: international trade and global value chairs; WTO rules and negotiations especially with regard to agriculture; aid to Africa; economic reforms, the World Bank and IMF; the debt crisis; migration and African Diaspora.
Prerequisite: ECO 2013 and ECO 2023. Students with credit for ECS 4111 will not get credit for ECS 4110.

ECS 4111 African Economic Development 4 Credits
Grading Scheme: Letter Grade
Deals with the most pressing issues facing Sub-Saharan African countries in their quest for socio-economic development. Although the main focus is on contemporary issues and forthcoming challenges, we will also turn to more or less recent historical facts whenever necessary to shed light on the present. Main topics are economic growth, politics and institutions, international trade, agricultural and industrial development, poverty and inequality, access to basic social services, the environment and gender issues.
Prerequisite: ECO 2013 and ECO 2023. Students with credit for ECS 4110 will not get credit for ECS 4111.

Education | School of Human Development and Organizational Studies

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Courses

EDA 4930 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Topics vary.

EDF 3110 Human Growth and Development 3 Credits
Grading Scheme: Letter Grade
A life span survey of human growth and development beginning at conception and ending with death. Students will have the opportunity to apply general principles in appropriate educational settings. (S)
Attributes: General Education - Social Science

EDF 3115 Child Development for Inclusive Education 3 Credits
Grading Scheme: Letter Grade
Examines psychological theories and research on typical and atypical development and their application in general education classrooms that include children with sensory, mental, emotional, and learning disabilities and gifted and talented children.

EDF 3132 The Young Adolescent 3 Credits
Grading Scheme: Letter Grade
Development of the young adolescent between the ages of ten and fifteen.

EDF 3135 The Adolescent 3 Credits
Grading Scheme: Letter Grade
The special role that the adolescent plays in total development. Emphasis is on the psychological development of the adolescent in the school.
Prerequisite: junior standing or higher or department permission.

EDF 3210 Educational Psychology 3 Credits
Grading Scheme: Letter Grade
Introduces the application of psychology to the problems of education in a variety of educational settings. It examines the theoretical and applied aspects of learning, motivation, human development, personality, and measurement and evaluation. (S) (WR)
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

EDF 3423 Educational Research Design 3 Credits
Grading Scheme: Letter Grade
Addresses the Basic Tenets of Educational Research Design, Including Quantitative, Qualitative, and Mixed-Method Approaches to Investigating Educational Phenomena; Learn the Information Needed to Understand the Educational Research Process.
Prerequisite: EDF 4430.

EDF 3935 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Topics vary.
Prerequisite: department permission.

EDF 4140 Cognition in Education 3 Credits
Grading Scheme: Letter Grade
Examines cognitive science that explains learning in educational contexts. Specifically, reviewing memory, attention, thinking, and problem solving in classroom or applied settings. Pays special attention to the connections between research and everyday phenomena; designed to help students apply course material to enhance their lives.
Prerequisite: EDF 3210

EDF 4430 Measurement and Evaluation in Education 3 Credits
Grading Scheme: Letter Grade
The basic principles and methods of measurement, evaluation and test construction.
Prerequisite: junior standing or higher or department permission.

EDF 4440 Program Evaluation in Educational Settings 3 Credits
Grading Scheme: Letter Grade
Overview to the skills and methods required to assess the effectiveness and impact of educational programs and institutions. First presents program evaluation in the broader setting of the social sciences, followed by evaluation readings and activities tailored specifically to educational settings.
Prerequisite: EDF 4430

EDF 4470 Survey Research Methods in Education 3 Credits
Grading Scheme: Letter Grade
Overview of the theory and application of survey research methods, with special emphasis on conducting survey research in educational settings. Presents the full process of survey research, including design, implementation, analysis, and data management.
Prerequisite: EDF 4430

EDF 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
For juniors or seniors who wish to explore areas of inquiry in psychological, social, or philosophical foundations of education, or research or measurement, under faculty guidance.

EDG 4910 Education Undergraduate Research 0-3 Credits
Grading Scheme: S/U
Supports mentored scholarship work that enables individual students to engage in the research process of posing questions, collecting and analyzing data, drawing evidence-based conclusions and communicating the results to others. Projects may involve inquiry, design, investigation, scholarship, discovery or application depending on the topic. (S-U)

EDH 3410 Introduction to Education Policy 3 Credits
Grading Scheme: Letter Grade
Introduces education policy and analysis that explores the history and purpose of education policy, key federal and state policies impacting K12 and higher education, and theoretical and conceptual approaches to policy analysis.
Prerequisite: EDF 3604.

MHS 3930 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Topics vary.

MHS 4900 Individual Work 2-4 Credits
Grading Scheme: Letter Grade
Topics vary.
Prerequisite: department permission.

SDS 3340 Career and Life Span Planning 3 Credits
Grading Scheme: Letter Grade
Presentations, discussions and experiential activities for making effective life plans and adjustments are covered.

SDS 3430 Family and Community Involvement in Education 3 Credits
Grading Scheme: Letter Grade
Examines existing models and practices for enhancing family-school-community interaction with emphasis on communication, conflict resolution and climate-building skill development.

SDS 3480 Student Development in a University Setting 2 Credits
Grading Scheme: Letter Grade
Available to selected undergraduate students only. Examines factors affecting student growth and development in the university setting, current problems facing students, and the use of group processes and leadership training in solving problems and facilitating growth.

SDS 3481 Alcohol and Drug Abuse 2 Credits
Grading Scheme: Letter Grade
General information of effects and problems associated with alcohol and other drug abuse.

SDS 3482 Stress and Anxiety Management 3 Credits
Grading Scheme: Letter Grade
Overview of theories and methods of stress and anxiety control and reduction.

SDS 4410 Interpersonal Communication Skills 3 Credits
Grading Scheme: Letter Grade
The application of basic principles of interpersonal communication with emphasis on the affective dimensions. Attention is given to using basic counseling strategies and psychological techniques as an aid to effective communication.

Education | School of Special Education, School Psychology and Early Childhood Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

EDF 2085 Teaching Diverse Populations 3 Credits
Grading Scheme: Letter Grade
Surveys educational demographics, foundations of prejudice, elements of culture, political and philosophical roots of diversity and commonality, exceptionalities, and barriers to cultural understanding and diversity in the classroom. A minimum of 30 hours of field experience is required with 15 hours in a diverse setting. See also: EDF 1005 and EME 2040. (D and S)
Attributes: General Education - Diversity, General Education - Social Science

EDF 3122 The Young Child 3 Credits
Grading Scheme: Letter Grade
Studies growth and development during infancy and early childhood. Laboratory includes observation and participation in nursery school and kindergarten.

EDF 3433 Introduction to Educational Measurement and Evaluation 2 Credits
Grading Scheme: Letter Grade
Surveys principles and methods of educational measurement with an emphasis on evaluation and diagnosis of students in school settings.
Prerequisite: STA 2023; knowledge of descriptive statistics, correlation and regression; inferential statistics and tests on means; and department permission for freshmen and sophomores.

EDG 4910 Education Undergraduate Research 0-3 Credits
Grading Scheme: S/U
Supports mentored scholarship work that enables individual students to engage in the research process of posing questions, collecting and analyzing data, drawing evidence-based conclusions and communicating the results to others. Projects may involve inquiry, design, investigation, scholarship, discovery or application depending on the topic. (S-U)

EEC 3005 Professionalism in Preschool and Childcare 3 Credits
Grading Scheme: Letter Grade
Ethical standards, professional guidelines, informed advocacy, and collaboration to support the development of children in child care and preschool settings.
Prerequisite: admission to B.S. in Early Childhood Studies.

EEC 3213 Language and Literacy Development in Preschool 4 Credits
Grading Scheme: Letter Grade
Provides an understanding of the phases of language and literacy development in children ages 3-5.
Prerequisite: admission to B.S. in Early Childhood Studies.

EEC 3404 Families, Diversity and Multicultural Considerations in Early Childhood 4 Credits
Grading Scheme: Letter Grade
The role of family and influence of community on development and learning of young children in diverse society.

EEC 3421 Teaching Math and Science in Early Childhood 3 Credits
Grading Scheme: Letter Grade
Techniques and methods for teaching preschool to third grade mathematics and science. Topics include psychological understandings, problem solving processes, integration of mathematics and science curricula, organizing for instruction, teaching methodology, alternative assessments and applying the process approach to learning activities through use of centers, cooperative learning, hands-on manipulatives and discovery type experiments.
Prerequisite: junior/senior-level EMR in Unified Early Childhood Education.

EEC 3941 Practicum in Early Childhood Education 1-3 Credits
Grading Scheme: S/U
Field experience in pre-service early childhood education.
Prerequisite: enrollment in Unified Early Childhood PROTEACH.

EEC 4204 Infant-Toddler Curriculum 3 Credits
Grading Scheme: Letter Grade
Design, implementation and evaluation of curriculum to support the development of infants and toddlers in child care programs.
Prerequisite: admission to B.S. in Early Childhood Studies.

EEC 4212 Mathematics and Science in the Preschool Years 3 Credits
Grading Scheme: Letter Grade
Development and promotion of mathematics and science skills, concepts and dispositions in the preschool years.
Prerequisite: admission to B.S. in Early Childhood Studies.

EEC 4215 Early Childhood Science and Social Studies 3 Credits
Grading Scheme: Letter Grade
Integrated curriculum course for science and social studies from the perspective of constructivist theory. Designed to promote understanding of similarities in ways in which children construct basic science and social studies concepts.
Prerequisite: junior/senior-level EMR in Unified Early Childhood Education.

EEC 4252 Early Childhood Curriculum and Management 3 Credits
Grading Scheme: Letter Grade
Develops knowledge of best practices in curriculum, management, and teaching in the early childhood years. Includes the contribution of child development theory and research to the design and implementation of appropriate early childhood programming, and discusses using theme-based units and play for integrating curriculum.

EEC 4268 Play and Integrated Curriculum in the Preschool Years 3 Credits
Grading Scheme: Letter Grade
Uses theme-based units and play to integrate curriculum for preschool-aged children.
Prerequisite: admission to B.S. in Early Childhood Studies.

EEC 4314 Behavior Management in the Preschool Years 3 Credits
Grading Scheme: Letter Grade
Understanding, preventing and responding to challenging behavior in preschool age children.

EEC 4315 Promoting Social Competence in the Preschool Years 3 Credits
Grading Scheme: Letter Grade
Methods to facilitate peer interaction and promote the development of social competence for preschool age children.

EEC 4712 Social Competence in Early Childhood 3 Credits
Grading Scheme: Letter Grade
Techniques for implementing developmentally appropriate strategies that promote children's self-responsibility and self-discipline. Examination of practices that help young children learn conflict resolution, effective interaction skills and prosocial behavior.
Prerequisite: junior/senior-level EMR in Unified Early Childhood Education.

EEX 2000 Impact of Disabilities: Home, Community and Workplace 3 Credits
Grading Scheme: Letter Grade
How disabilities impact the lives of individuals who have disabling conditions and how the presence of individuals with disabilities enhances diversity in a variety of settings. The impact of disabilities in home, community and work environments. Physical, cognitive and emotional/behavioral disabilities are considered. (D and S)
Attributes: General Education - Diversity, General Education - Social Science

EEX 3012 Introduction to Special Education 3 Credits
Grading Scheme: Letter Grade
Overview of special education characteristics and definitions of disabilities, the referral process and service delivery models. Information on the history of, legal basis for and contemporary issues in special education.

EEX 3062 Early Childhood Special Education Curriculum 3 Credits
Grading Scheme: Letter Grade
Content knowledge in developing and implementing individualized educational programs for the pre-kindergarten child with disabilities, including developmentally appropriate curriculum; methods, interventions strategies, teaming approaches, inclusion and mainstreaming issues; and approaches and techniques for serving the child and the family.

EEX 3070 Teachers and Learners in the Inclusive School 3 Credits
Grading Scheme: Letter Grade
Characteristics of, identification of and teaching practices for exceptional children in mainstream education. Designed for general education majors, both elementary and secondary.
Prerequisite: junior standing or higher.

EEX 3093 Exceptional People in School and Society 3 Credits
Grading Scheme: Letter Grade
Persons with disabilities and people from other diverse groups and the services they need from school and society for success. Consideration of the abilities, causes and educational implications. May not be taken in lieu of EDF 2085. (D and S)
Attributes: General Education - Diversity, General Education - Social Science

EEX 3097 Social Perspectives on Disability 3 Credits
Grading Scheme: Letter Grade
Covers issues relevant to people with disabilities, their families and others with whom they have contact through community, employment or other settings. Specifically, historical views of people with disabilities and current disability-related issues are examined. Provides a framework for understanding disabilities and disability-related issues within cultural contexts.
Prerequisite: EEX 2000 or EEX 3093.

EEX 3226 Assessment in Early Childhood Special Education 3 Credits
Grading Scheme: Letter Grade
Use of informal and formal evaluation techniques to develop individualized educational programs for young children with disabilities and individualized family support plans for infants and toddlers with disabilities and their families. An emphasis is the implementation of a multidisciplinary team approach in the assessment of young children.

EEX 3257 Core Teaching Strategies 3 Credits
Grading Scheme: Letter Grade
Helps pre-service teachers develop instruction that provides diverse learners meaningful access to the school curriculum, and assist them in becoming self-regulated learners.

EEX 3616 Core Classroom Management Strategies 3 Credits
Grading Scheme: Letter Grade
Helps pre-service teachers learn classroom management strategies that develop a positive classroom community for students with disabilities and other diverse learners. They will learn organizational and management strategies to assist students in managing their behavior.

EEX 4064 Educational Programming for Infants and Toddlers with Disabilities 3 Credits
Grading Scheme: Letter Grade
Overview of issues, trends and best practices in the education of infants and toddlers who are at-risk or disabled (birth to three).

EEX 4280 Disabilities in Community and Employment 3 Credits
Grading Scheme: Letter Grade
In-depth look at aspects of the community and work experiences for adults with disabilities and the individuals who interact with them. Effective practices that foster accepting and supportive environments that ensure successful life outcomes are discussed.
Prerequisite: EEX 2000 or EEX 3093.

EEX 4294 Differentiated Instruction 3 Credits
Grading Scheme: Letter Grade
Provides preservice teachers with information and expertise related to instruction to that effectively meets the academic needs of all students in inclusive settings.

EEX 4520 Disabilities: Legal Aspects and Policies 3 Credits
Grading Scheme: Letter Grade
Development and enactment of laws and policies designed to protect the rights of persons with disabilities. Examines The Americans with Disabilities Act as well as other significant legislation contributing to policies affecting this population. Examines disability legislation/policy on local, state, national, and international levels.
Prerequisite: EEX 2000 or EEX 3093.

EEX 4754 Family Focused Involvement in Early Childhood Special Education 3 Credits
Grading Scheme: Letter Grade
Professional skills working with families of young children with disabilities, including understanding of family systems theory, assessing family strengths and needs, developing individual family support plans (IFSP) or individual educational plan (IEP), and enhancing communication and counseling skills. Understanding families from diverse cultures.

EEX 4790 Multicultural Issues in Early Childhood Special Education 3 Credits
Grading Scheme: Letter Grade
Cultural and linguistic diversity among young children with disabilities and their families.

EEX 4810 Seminar on Disability 3 Credits
Grading Scheme: Letter Grade
Identify and analyze current disability issues and literature on the integration of individuals with disabilities in the workplace, post-secondary education, community, and adult life. Students complete a culminating activity investigating a disability topic or applying disability-related knowledge to their academic discipline or anticipated professional practice.
Prerequisite: EEX 3097 or EEX 4280 or EEX 4520.

EEX 4837 Practicum Early Child 3 Credits
Grading Scheme: S/U

EEX 4905 Individual Study 1-6 Credits
Grading Scheme: Letter Grade
In-depth study of a problem that relates to preparation as a special education teacher. The project must be approved and supervised by department faculty. (WR)
Prerequisite: undergraduates only.
Attributes: Satisfies 6000 Words of Writing Requirement

EPD 4033 Child Youth Mult Disa 1-3 Credits
Grading Scheme: Letter Grade

LIN 3710 Language Acquisition 3 Credits
Grading Scheme: Letter Grade
Child language development and use as it influences classroom practice and literacy development. Study of oral language development of children from birth through age eight.
Prerequisite: junior/senior-level EMR in Unified Early Childhood Education.

SLS 1510 Developing Academic Skills 2 Credits
Grading Scheme: Letter Grade
Equips students with the tools that enable them to become independent learners with focus on testing and study skills, library research, and organized composition skills; introduces analytical thinking.

Education | School of Teaching and Learning

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Courses

ARE 4940 Student Teaching in Art Education 4-12 Credits
Grading Scheme: S/U
Student-teaching classroom experience in art.
Prerequisite: minimum 2.5 GPA and art education major.

EDE 4905 Individual Study 1-3 Credits
Grading Scheme: Letter Grade
In-depth study of a problem that relates to teacher preparation. The project must be approved and supervised by a department faculty member.

EDE 4942 Integrated Teaching in Elementary Education 2 Credits
Grading Scheme: S/U
This field component is an intensive experience completed during the integrated semester in language arts and social studies in the inclusive classrooms. (S-U)
Prerequisite: EEX 3070;
Corequisite: EEX 4905

EDF 1005 Introduction to Education 3 Credits
Grading Scheme: Letter Grade
Overview of education, teaching and schools; a survey of historical, philosophical and social foundations; and an orientation to professional education and the code of ethics. Thirty hours of field experience is required. This is the first of three prerequisite core courses for those who plan to be teachers. EDF 2085 and EME 2040 continue the sequence.

EDF 3083 International and Comparative Education 3 Credits
Grading Scheme: Letter Grade
Examines the political, economic, and cultural contexts of schooling in various parts of the world; introduces theoretical perspectives and comparative methods for interpreting the significance of educational policies and practices in light of globalization.
Prerequisite: EDF 3604.

EDF 3514 History of Education in the United States 3 Credits
Grading Scheme: Letter Grade
The development of American schools and major problems in American education; emphasizes the relationships among the schools, intellectual movements and social institutions. (H)
Attributes: General Education - Humanities

EDF 3604 Social Foundations of Education 3 Credits
Grading Scheme: Letter Grade
Educative effects of social structures and social values and the issues involved in appraising these effects, including the resulting social demands upon schools.
Attributes: General Education - Social Science

EDF 3609 Sociological and Historical Foundations of Education 3 Credits
Grading Scheme: Letter Grade
A sociological and historical analysis of schooling in American society. Aims of education are examined in relation to social structures, institutions and values; subcultures; social stratification; school law; and democracy and the sociology of the teaching profession.
Prerequisite: junior standing or higher or department permission.

EDF 4930 Schools on Screen: American Education in Popular Media 3 Credits
Grading Scheme: Letter Grade
Explores how the movies and television have portrayed educators and students over time; investigates the ways in which those representations have helped to shape popular impressions of American schooling.
Prerequisite: EDF 3604.

EDG 4003 Global Issues in K-12 Education 3 Credits
Grading Scheme: Letter Grade
Overview of current global issues and strategies for incorporating them into the K-college curriculum.

EDG 4203 Elementary and Secondary Curriculum 3 Credits
Grading Scheme: Letter Grade
Purposes, organization, curriculum and issues of elementary and secondary schools and roles of educators.

EDG 4910 Education Undergraduate Research 0-3 Credits
Grading Scheme: S/U
Supports mentored scholarship work that enables individual students to engage in the research process of posing questions, collecting and analyzing data, drawing evidence-based conclusions and communicating the results to others. Projects may involve inquiry, design, investigation, scholarship, discovery or application depending on the topic. (S-U)

EDG 4930 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Topics vary.

EME 2040 Introduction to Educational Technology 3 Credits
Grading Scheme: Letter Grade
Introduces computer productivity (word processing, databases, spreadsheets, painting, drawing, layouts); multimedia (media design, digital video, presentation); communications (internet, Eric); educational software (computer-aided instruction, public domain software); interactive media (linked environments, one-to-many, presentations using electronic tools); reference materials (electronic encyclopedia, atlases, clip art, libraries, internet); instructional applications (techniques); and ethical.

EME 3044 Issues and Trends in Educational Technology 3 Credits
Grading Scheme: Letter Grade
Introduces the field of educational technology and its history and allows an exploration of current topics and trends in educational technology research and application.
Prerequisite: EME 3813.

EME 3319 Design and Development of Educational Multimedia 3 Credits
Grading Scheme: Letter Grade
Introduces the principles, methods, and tools for the design and development of multimedia applications, including incorporation of sound, animation, still images, video, and other media in educational technology.
Prerequisite: EME 3813.

EME 3813 Technology-Enhanced Learning Environments 3 Credits
Grading Scheme: Letter Grade
Analyzes how people learn in technology-enhanced environments, outlines how the design of technology-enhanced systems can support or undermine learning, and considers critical issues for instructors, designers, and learners in the digital age.
Prerequisite: EME 2040.

EME 4010 Distance Education Research and Practice 3 Credits
Grading Scheme: Letter Grade
Examines the concepts, technologies, and issues related to the analysis, design, development, implementation, policy-making, and evaluation of distance education courses and programs. Create an online module based on design principles and quality guidelines.
Prerequisite: EME 3813.

EME 4320 Instructional Development for Teaching and Learning 3 Credits
Grading Scheme: Letter Grade
Design and develop instructional materials using emerging technologies. Topics include programming, authoring packages, design principles, and development procedures. Development includes web-based and mobile-based authoring and programming activities.
Prerequisite: EME 4673.

EME 4401 Integrating Technology in the Elementary Curriculum 3 Credits
Grading Scheme: Letter Grade
Prepares elementary majors to effectively use technology in teaching and learning.
Prerequisite: Formal admission to the upper division Unified Elementary ProTeach program.

EME 4406 Integrating Technology into the Secondary Curriculum 3 Credits
Grading Scheme: Letter Grade
Gain experience with curriculum design and course development, which assumes use of technology.

EME 4673 Introduction to Instructional Design 3 Credits
Grading Scheme: Letter Grade
Introduces the processes, methods, and techniques involved with systematic design on instruction. Topics include needs assessment, goal analysis, learner and context analysis, performance objectives, assessment instruments, instructional strategies, development procedures, formative and summative evaluation.
Prerequisite: EME 3813.

ESE 4340C Effective Teaching and Classroom Management in Secondary Education 3 Credits
Grading Scheme: Letter Grade
Basic strategies for curriculum planning, instruction, classroom organization and student behavior management.

ESE 4905 Individual Study 1-4 Credits
Grading Scheme: Letter Grade
In-depth study of a problem that relates to preparation as secondary education teachers. The project must be approved and supervised by a department faculty member.

LAE 3005 Children's Literature 3 Credits
Grading Scheme: Letter Grade
Introduces genres of children's literature, critical response theory, strategies for critically evaluating books for instructional and aesthetic purposes, and strategies for generating personal, critical and aesthetic responses to literature from diverse and inclusive student populations.

LAE 4314 Language Arts for Diverse Learners 3 Credits
Grading Scheme: Letter Grade
Analysis of content, materials and methods for teaching language arts in an inclusive elementary school classroom.
Prerequisite: Formal admission to the upper division Unified Elementary ProTeach program.

LAE 4604 Language Arts for Diverse Learners in Early Education 3 Credits
Grading Scheme: Letter Grade
Focuses on the early developmental levels of writing and different definitions of writing, including writing as composing, writing as spelling/encoding and writing as handwriting. Addresses instructional strategies appropriate for teaching young children to write and explores instructional approaches from different theoretical perspectives.
Prerequisite: RED 3309.

MAE 2364 Explorations Teaching Secondary Mathematics and Science 3 Credits
Grading Scheme: Letter Grade
Introduces prospective teachers to teaching secondary mathematics and science (grades 6-12).

MAE 3312 Mathematics Content for Elementary Teachers 3 Credits
Grading Scheme: Letter Grade
Analysis of the content and methods necessary to effectively teach content from the number, algebra, and geometry strands of mathematics in the inclusive elementary classroom. Provides pre-service teachers with the underlying content and pedagogical content knowledge necessary to effectively teach mathematics.
Prerequisite: elementary education majors.

MAE 4310 Teaching Mathematics in the Inclusive Elementary School 3 Credits
Grading Scheme: Letter Grade
Analyzes content, materials and methods of teaching mathematics in the inclusive elementary classroom. Prepares the future teacher of mathematics for facilitation of instruction to meet the needs of all children, including children with disabilities.
Prerequisite: Formal admission to the upper division Unified Elementary ProTeach program.

MUE 4940 Student Teaching in Music Education 9 Credits
Grading Scheme: S/U
Student teaching in selected classrooms of public schools. Special seminars and continuous evaluation of teaching experiences. (S-U)
Corequisite: MUE 4140; all coursework must be completed except MUE 4140.

RED 3307 Teaching Reading in Primary Grades 3 Credits
Grading Scheme: Letter Grade
Studies constructivist theory of how children learn and the sociopsycholinguistic theory of language learning. Focuses on how children construct knowledge about and learn to use written language.

RED 3309 Emergent Literacy and Beginning Reading Instruction 3 Credits
Grading Scheme: Letter Grade
Provides students with knowledge to support emergent literacy in young children and teaching beginning reading in the early primary grades. Designed to provide students with theoretical and practical knowledge and experiences that prepare them to teach in a variety of applicable educational settings.
Prerequisite: LIN 3710.

RED 3312 Content Area Literacy 3 Credits
Grading Scheme: Letter Grade
Studies the fundamental knowledge necessary to teach basic reading skills in the elementary school classroom.

RED 4324 Reading in the Intermediate Grades 3 Credits
Grading Scheme: Letter Grade
Theory and practice for teaching reading in grades 3-6; develop expertise in literacy strategy and instruction in the classroom. Instruction is always embedded in the context of current educational policies. Become familiar with current research on reading, recent educational policy development, and issues of teaching in a diverse society.
Prerequisite: Formal admission to the upper division Unified Elementary ProTeach program.

SCE 4113L Elementary Science Content 3 Credits
Grading Scheme: Letter Grade
Overview of integrated science content essential for developing K-6 science curriculum. The course includes science-specific pedagogy and translation of the science content knowledge into grade specific activities aligned with the national science content standards for K-12 and the Next Generation Sunshine State Standards.
Prerequisite: Elementary education majors

SCE 4310 Elementary Science Methods for the Inclusive Classroom 3 Credits
Grading Scheme: Letter Grade
Materials and methodology related to teaching the concepts and processes of science. Prepares pre-service teachers to teach science concepts and processes to all children, including those with disabilities.
Prerequisite: Formal admission to the upper division Unified Elementary ProTeach program.

SMT 1661 Step 1: Inquiry Approaches to Teaching Mathematics and Science 1 Credit
Grading Scheme: Letter Grade
Introduces the evidence-based teaching practices necessary to design and deliver excellent mathematics and science instruction. Students engage in early field experiences in a local elementary school classroom to explore mathematics and science teaching as a career.

SMT 1662 Step 2: Inquiry Based Lesson Design in Mathematics and Science Education 2 Credits
Grading Scheme: Letter Grade
Introduces inquiry-based lesson design that supports effective instructional techniques for middle school mathematics and science teaching.
Prerequisite: SMT 1661 with minimum grade of C.

SMT 3100 Knowing and Learning in Mathematics and Science Teaching 3 Credits
Grading Scheme: Letter Grade
Investigates theories of knowing and learning in mathematics and science and implications for teaching secondary mathematics and science. (S)
Prerequisite: sophomore standing
Attributes: General Education - Social Science

SMT 3301C Classroom Interactions in Mathematics and Science Education 3 Credits
Grading Scheme: Letter Grade
Overview of principles for teaching middle and secondary school mathematics or science through an exploration of the role of content, pedagogy, curriculum and technology as they promote learning and impact equity.
Prerequisite: MAE 2364 and SMT 3100 with minimum grades of C.

SMT 3664 Project-Based Instruction in Math and Science Education 3 Credits
Grading Scheme: Letter Grade
Overview of project-based instruction as an investigative and collaborative teaching approach in mathematics and science education.
Prerequisite: MAE 2364;
Corequisite: SMT 3100

SMT 4945 Apprenticeship in Secondary Mathematics and Science Teaching 4-6 Credits
Grading Scheme: Letter Grade
UFTeach capstone experience. Students apply previously learned techniques and theoretical perspectives of mathematics or science education within a secondary school classroom setting.
Prerequisite: SMT 1661 and (SMT 1662 or MAE 2364) and SMT 3100 with minimum grades of C.

SSE 4312 Social Studies for Diverse Learners 3 Credits
Grading Scheme: Letter Grade
Studies goals, methods and evaluation procedures for social studies curriculum in elementary schools (K - 6).

TSL 3323 ESOL and Reading for Teachers 3 Credits
Grading Scheme: Letter Grade
Develop an understanding of literacy teaching and learning, with a dual focus on native speakers of English and English language learners; focuses on methods and materials used to support the development of proficient and critical adolescent readers in academic content areas.

TSL 3520 ESOL Foundations: Language and Culture in Classrooms 3 Credits
Grading Scheme: Letter Grade
Examines issues of language and culture relevant to school-age learners of English as a Second Language (ESOL).

TSL 4100 ESOL Curriculum, Methods and Assessment 3 Credits
Grading Scheme: Letter Grade
Extends the understanding of ways that language and culture affect second-language learners' participation and learning in elementary classrooms. Create appropriate and challenging curriculum content, materials and assessments to create meaningful and equitable learning environments for native English speakers and second-language learners.
Prerequisite: TSL 3520.

TSL 4324 ESOL Strategies for Content Area Teachers 3 Credits
Grading Scheme: Letter Grade
Overview of the issues relevant to ESOL learners and develops the skills to teach ESOL students in content area classes.

Electrical and Computer Engineering

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Although not specifically stated in each course description, the prerequisites for all courses, except those required by other departments, may include classification as an electrical engineering student in good standing. In order to use a course as a prerequisite for an EEE/EEL-prefixed course, a minimum grade of C is required in the prerequisite course.

Courses

CEN 3907C Computer Engineering Design 1 3 Credits
Grading Scheme: Letter Grade
Reinforce basic computer engineering skills; design, produce, and report on a computer engineering project, meeting defined specifications and using a structured design methodology and project management.
Prerequisite: CEN 3031 and EEL 3744C with minimum grades of C.

CEN 3908C Computer Engineering Design 2 3 Credits
Grading Scheme: Letter Grade
Selected capstone design projects involving engineering applications in the various areas of computer engineering. Must be taken prior to the semester of graduation .
Prerequisite: CEN 3907C with minimum grade of C and senior standing.

EEE 3308C Electronic Circuits 1 4 Credits
Grading Scheme: Letter Grade
Fundamentals of electronic circuits and systems. Laboratory.
Prerequisite: EEL 3008 and EEL 3112.

EEE 3396C Solid-State Electronic Devices 4 Credits
Grading Scheme: Letter Grade
Introduces the principles of semiconductor electron device operation. Laboratory.
Prerequisite: EEL 3008.

EEE 4210 Introduction to Biophotonics 3 Credits
Grading Scheme: Letter Grade
Introduces the principles of optics, lasers and biology, the interaction of light with cells and tissues, and various optical imaging, sensing and activation techniques and their applications in biomedicine.
Prerequisite: EEL 3003 or EEL 3111C with minimum grade of C.

EEE 4222 Resonant MEMS 3 Credits
Grading Scheme: Letter Grade
Fundamentals of resonant micro-electro-mechanical systems (resonant MEMS) and their applications.
Prerequisite: EEL 3135 and EEL 3112 or instructor permission.

EEE 4260C Bioelectrical Systems 4 Credits
Grading Scheme: Letter Grade
Covers the theoretical and quantitative perspective of bioelectrical signals reflecting the activity of the brain, the muscles, and the heart. Examines bases of modeling, measuring, processing and analyzing bioelectrical signals and systems, as well as common clinical applications. Laboratory.
Prerequisite: EEL 3008 and EEL 3112.

EEE 4306 Electronic Circuits II 3 Credits
Grading Scheme: Letter Grade
Design-oriented continuation of EEE 3308C; feedback, op amp circuits and applications, digital electronics.
Prerequisite: EEE 3308C.

EEE 4310 Digital Integrated Circuits 3 Credits
Grading Scheme: Letter Grade
Analysis and design of digital circuits using MOS and bipolar devices.
Prerequisite: EEE 3308C and EEL 3701C.

EEE 4329 Future of Microelectronics Technology 3 Credits
Grading Scheme: Letter Grade
Surveys state-of-the-art microelectronics technology and prospects for future technologies. Topics include nanoscale MOSFETs, strained Si, high-k gate dielectrics, carbon nanotubes, molecular electronics and single-electron devices.
Prerequisite: EEE 3396C or equivalent.

EEE 4331 Microelectronic Fabrication Technologies 3 Credits
Grading Scheme: Letter Grade
Principles of microelectronic device fabrication. Emphasis on the fundamentals of microfabrication processing and microelectronic device process flows.
Prerequisite: EEE 3396C.

EEE 4373 Radio-Frequency Electronics 3 Credits
Grading Scheme: Letter Grade
Fundamental RF theory (such as resonant circuits, matching, noise and transmission lines), radio operation and design of key RF circuit blocks (such as amplifiers, mixers and oscillators).
Prerequisite: EEE 3308C.

EEE 4404 Mixed Signal IC Testing I 3 Credits
Grading Scheme: Letter Grade
Fundamentals of testing IC devices and systems: test specifications, parametric training, measurement accuracy, test hardware, sampling theory, digital signal processing based testing, and calibrations. Circuit analysis and design with analog and mixed-signal systems. Labs on testing passive components, LDOs, Op-amps, DACS/ADCs, Mixed-Signal ICs Labview and the National Instruments Savage Tester.
Prerequisite: EEE 3308C and EEL 3701C with minimum grades of C.

EEE 4414 Modern Memory Device Technologies 3 Credits
Grading Scheme: Letter Grade
State-of-the-art volatile and nonvolatile memory device technologies and their limitations. Emerging memory device technologies, including those that could be adopted by industry in the next decades due to their potential performance, density, power and cost advantages.

EEE 4420 Introduction to Nanodevices 3 Credits
Grading Scheme: Letter Grade
Physical principles of modern solid-state devices and their applications, quantum mechanics and fundamentals of nanoelectronics.
Prerequisite: EEE 3396C.

EEE 4511C Real Time Digital Signal Processing Applications 4 Credits
Grading Scheme: Letter Grade
Real world digital signal processing (DSP) tasks are presented and solved in a lab environment that utilizes a Floating Point DSP and a development simulation and hardware emulation tool. Laboratory.
Prerequisite: EEL 3135 and EEL 3744C.

EEE 4701 Automated Hardware/Software Verification 3 Credits
Grading Scheme: Letter Grade
Develop modeling, formal specification, and automated verification skills for analyzing complex hardware and/Or software systems. Hands-on experience with model checking tools.
Prerequisite: EEL 3744C or equivalent and COP 3530 or equivalent.

EEE 4714 Introduction to Hardware Security and Trust 3 Credits
Grading Scheme: Letter Grade
Fundamentals of hardware security and trust for integrated circuits. Cryptographic hardware, invasive and non-invasive attacks, side-channel attacks, physically unclonable functions (PUFs), true random number generation (TRNG), watermarking of Intellectual Property (IP) blocks, FPGA security, counterfeit detection, hardware Trojan detection, and prevention in IP cores and integrated circuits.
Prerequisite: EEL 4712C with minimum grade of C.

EEE 4720 Acoustics 3 Credits
Grading Scheme: Letter Grade
Governing equations for wave theory of sound; Character of plane acoustic waves and 3-D acoustic fields; Sound transmission/reflection at an interface between two media; Waves transmission/attenuation inducts; Low frequency approximations (lumped-element modeling) and transducers; sources of sound.
Prerequisite: MAP 2302 and (EEL 3111C or EEL 3003) with minimum grades of C or instructor permission.

EEE 4773 Fundamentals of Machine Learning 3 Credits
Grading Scheme: Letter Grade
Overview of machine intelligence and the role of machine learning in a variety of real-world problems. Probability and statistics to handle uncertain data. Topics covered include: learning models from data in both a supervised and unsupervised fashion, linear models and non- linear models for classification, and linear dimensionality reduction.
Prerequisite: EEL 3135 or equivalent and STA 3032 or equivalent.

EEL 3000 Introduction to Electrical and Computer Engineering 2 Credits
Grading Scheme: Letter Grade
Introduces electrical and computer engineering tools, both hardware and software. Professional ethics, career development. Assemble and test hardware project to provide hands-on experience.
Prerequisite: MAC 2311.

EEL 3008 Physics of Electrical Engineering 3 Credits
Grading Scheme: Letter Grade
Introduces the fundamental physics underlying components and devices and their application to electronics, power, and wireless.
Prerequisite: EEL 3111C and MAC 2313 and MAP 2302.

EEL 3111C Circuits 1 4 Credits
Grading Scheme: Letter Grade
Basic analysis of DC and AC electric circuits. Laboratory.
Prerequisite: MAC 2312 and PHY 2049.

EEL 3112 Circuits 2 3 Credits
Grading Scheme: Letter Grade
Continuous-time signals and linear systems: Fourier series and transforms, frequency, response, Laplace transform and system function, analog filters; emphasis on electrical circuits. Sampling.
Prerequisite: EEL 3000 and EEL 3111C and EEL 3135 and MAP 2302.

EEL 3135 Introduction to Signals and Systems 4 Credits
Grading Scheme: Letter Grade
Continuous-time and discrete-time signal analysis including Fourier series and discrete-time and discrete Fourier transforms; sampling; discrete-time linear system analysis with emphasis on FIR and IIR systems: impulse response, frequency response, and system function; MATLAB-based programming for Signals and Systems.
Prerequisite: MAC 2313.

EEL 3211C Basic Electric Energy Engineering 4 Credits
Grading Scheme: Letter Grade
Analysis and modeling of power system components. Magnetic circuits, energy conservation, transformers, and AC and DC rotating machines. Laboratory.
Prerequisite: EEL 3008.

EEL 3402 Remote Sensing in Engineering: Science, Sensors and Applications 3 Credits
Grading Scheme: Letter Grade
Remote sensing theory, systems and applications using information obtained from the visible/near infrared, thermal infrared and microwave regions of the EM spectrum.
Prerequisite: MAP 2302 or equivalent.

EEL 3472C Fundamentals of Electromagnetic Fields 4 Credits
Grading Scheme: Letter Grade
Reviews the vector calculus needed for the study of electromagnetic fields and their applications. Considers both static and dynamic fields, including radiation and propagation both in free space and in waveguide structures. The associated laboratory reinforces classroom instruction.
Prerequisite: EEL 3008.

EEL 3701C Digital Logic and Computer Systems 4 Credits
Grading Scheme: Letter Grade
Overview of logic design, algorithms, computer organization and assembly language programming and computer engineering technology. Laboratory.
Prerequisite: Knowledge of a programming language.

EEL 3744C Microprocessor Applications 4 Credits
Grading Scheme: Letter Grade
Experience in the elements of microprocessor-based systems, hardware interfacing and software design for their application. Laboratory.
Prerequisite: EEL 3701C.

EEL 3834 Programming for Electrical and Computer Engineers 3 Credits
Grading Scheme: Letter Grade
Develops computer skills and the art of writing sound computer programs using examples and exercises relevant to electrical and computer engineering.

EEL 3923C Electrical Engineering Design 1 3 Credits
Grading Scheme: Letter Grade
Teams design, produce, and report on a hardware prototype, meeting defined specifications and using a structured design methodology. Includes project management, hardware prototyping, and project reporting.
Prerequisite: EEE 3008 and EEL 3112 and EEL 3744C and 1 course from breadth elective list.

EEL 4242C Power Electronic Circuits 3 Credits
Grading Scheme: Letter Grade
Circuit topologies, analysis, design and simulation of electronic circuits such as power supplies, and motor drives.
Prerequisite: EEL 3308.

EEL 4248 Fundamentals of RF and Power Electronic Devices 3 Credits
Grading Scheme: Letter Grade
The course is designed to introduce important semiconductor device technologies for high speed electronics, power electronics and energy harvesting applications.
Prerequisite: EEE 3396C.

EEL 4251 Power System Analysis 3 Credits
Grading Scheme: Letter Grade
Development of power system equivalents by phase network analysis, load flow, symmetrical components, sequence networks, and fault analysis.
Prerequisite: EEL 3211C.

EEL 4271 Power System Protection 3 Credits
Grading Scheme: Letter Grade
Power systems protection analytical methodologies and algorithms. Analyzes different methods for equipment and systems protection and discusses wide-area monitoring techniques, which allow real-time operation and control. Introduces cyber-physical security approaches for the smart grid and realizes numerical construction of protection methods considering realistic engineering hypothesis.
Prerequisite: EEL 4251 or instructor permission.

EEL 4287 Smart Grid for Sustainable Energy 3 Credits
Grading Scheme: Letter Grade
Survey of power grid operations and markets for students with interest in power systems and/or sustainable energy. Characteristics of traditional and new energy resources; how resources impact the grid; control on many time-scales; how the power grid and power markets of tomorrow will differ from those of today.
Prerequisite: EEL 4657C.

EEL 4403 Computational Photography 3 Credits
Grading Scheme: Letter Grade
Fundamentals of computational photography, sensing, imaging and illumination.
Prerequisite: EEL 3135 with a minimum grade of C.

EEL 4412 Applied Magnetics and Magnetic Materials 3 Credits
Grading Scheme: Letter Grade
Introduces magnetism, magnetic materials, and magnetic devices; offers a balance of theory and application from an applied engineering perspective.
Prerequisite: EEL 3008 or instructor permission.

EEL 4421 RF/Microwave Passive Circuits 3 Credits
Grading Scheme: Letter Grade
Radio frequency (RF)/microwave passive components and circuits such as transmission lines, waveguides, couplers, filters, and resonators.
Prerequisite: EEL 3472C with a minimum grade of C.

EEL 4440 Optical Communication Systems 3 Credits
Grading Scheme: Letter Grade
Introduces electromagnetic waves, dielectric waveguides and fibers, propagation characteristics of fibers, characterization methods, LEDs and laser diodes, photodetector optical receivers and communication systems.
Prerequisite: EEE 3396C and EEL 3472C.

EEL 4446 Laser Theory and Design 3 Credits
Grading Scheme: Letter Grade
Studies the field of semiconductor optoelectronics and the physics of optoelectronic devices including the interaction of photons with electrons and holes in a semiconductor leading to the realization of optoelectronic devices such as photon amplifiers, LEDs, diode lasers, electro-absorption modulators, and detectors, including their design and application-specific characteristics.
Prerequisite: EEL 3008 or instructor permission.

EEL 4458 Fundamentals of Photonics 3 Credits
Grading Scheme: Letter Grade
Reviews electromagnetic fields and waves, energy bands in semiconductors, p-n junctions and optical properties of semiconductors. Fundamentals of optical modulators and waveguides and photonic applications.
Prerequisite: EEL 3472C and EEE 3396C.

EEL 4461 Antenna Systems 3 Credits
Grading Scheme: Letter Grade
Electromagnetic field theory and its application to antenna design.
Prerequisite: EEL 3472C.

EEL 4473 Electromagnetic Fields and Applications 3 Credits
Grading Scheme: Letter Grade
Rigorously develops the properties of electric and magnetic fields. Maxwell?s Equations form the foundation for understanding the fundamental nature and application-driven aspect of static and dynamic fields and their derivation from scalar and vector potentials. Fields in media is examined along with energy considerations and propagation effects.
Prerequisite: EEL 3472C.

EEL 4495 Lightning 3 Credits
Grading Scheme: Letter Grade
Introduces lightning discharge processes. Electromagnetics relevant to lightning measurements. Applications for determining lightning charge, current, location and characteristics. Lightning protection.
Prerequisite: EEL 3472C.

EEL 4514C Communication Systems and Components 4 Credits
Grading Scheme: Letter Grade
Theory of communication and applications to radio, television, telephone, satellite, cellular telephone, spread spectrum and computer communication systems. Laboratory.
Prerequisite: EEL 3112.

EEL 4516 Noise in Devices and Communication Systems 3 Credits
Grading Scheme: Letter Grade
Origin, characterization and measurement of random noise. Calculation of signal-to-noise ratios and probability of errors in communication systems.
Corequisite: EEL 4514C.

EEL 4523 Audio Engineering 3 Credits
Grading Scheme: Letter Grade
Introduces audio and sound engineering that includes the underlying theory of acoustics, electronics and signal processing; demonstrates modern audio engineering practice as applied to music, home audio, recording and sound reinforcement.
Prerequisite: EEL 3111C or EEL 3003, or instructor permission.

EEL 4540 Introduction to Radar 3 Credits
Grading Scheme: Letter Grade
Basic principles of cw and pulsed radar; angle, range, and Doppler tracking; accuracy and resolution; signal design.
Prerequisite: EEL 4514C.

EEL 4598 Computer Communications 3 Credits
Grading Scheme: Letter Grade
Introduces the principles and practice of computer networking, emphasizing data communication, and the lower layers of the OSI and TCP/IP protocol architectures.
Prerequisite: (EEL 3834 or COP 2271 or equivalent) and junior standing or higher.

EEL 4599 Wireless and Mobile Networks 3 Credits
Grading Scheme: Letter Grade
Senior-level study of wireless and mobile networks. Investigates telecommunication architectures and protocols for wireless sensor networks and wireless embedded systems; Wi-Fi and wireless local area networks; mobile ad-hoc networks; next generation cellular systems and satellite networks.
Prerequisite: EEL 3701C.

EEL 4610 State Variable Methods in Linear Systems 3 Credits
Grading Scheme: Letter Grade
Development of state-variable approach to linear continuous-time and discrete-time systems with emphasis on the design of feedback control systems.
Prerequisite: EEL 4657C.

EEL 4657C Linear Control Systems 4 Credits
Grading Scheme: Letter Grade
Theory and design of linear control systems. Laboratory.
Prerequisite: EEL 3112 and EEL 3744C.

EEL 4665C Intelligent Machines Design Laboratory 4 Credits
Grading Scheme: Letter Grade
Design simulation, fabrication, assembly and testing of intelligent robotic machines. Laboratory.
Prerequisite: (EEL 3744C or EML 3005) or instructor permission.

EEL 4712C Digital Design 4 Credits
Grading Scheme: Letter Grade
Advanced modular logic design, design languages, finite state machines and binary logic. Laboratory.
Prerequisite: EEL 3701C.

EEL 4713C Digital Computer Architecture 4 Credits
Grading Scheme: Letter Grade
The use of electronic digital modules to design computers. Includes the organization and operation of computers, hardware/software trade-offs and design of computer interfacing. Laboratory.
Prerequisite: EEL 3701C and EEL 4712C.

EEL 4720 Reconfigurable Computing 3 Credits
Grading Scheme: Letter Grade
Fundamental concepts at advanced undergraduate level in reconfigurable computing based upon advanced technologies in field-programmable logic devices. Topics include general concepts, device architectures, design tools, metrics and kernels, system architectures and application case studies.
Prerequisite: EEL 4712C.

EEL 4732 Advanced Systems Programming 3 Credits
Grading Scheme: Letter Grade
Develop a deep understanding of operating system concepts and systems programming fundamentals and gain hands-on experience in systems programming by using Pthreads as well as implementing Linux device drivers and testing/verifying systems code for deadlock and race-freedom.
Prerequisite: EEL 3701C and EEL 3834 and COP 4600 or equivalents.

EEL 4736 Principles of Computer System Design 3 Credits
Grading Scheme: Letter Grade
Broadly introduces the main principles and abstractions for engineering hardware and software systems. Includes in-depth studies of their use on computer systems across a variety of designs, be it an operating system, a client/server application, a database server or a fault-tolerant disk cluster.
Prerequisite: EEL 4712C and EEL 3834.

EEL 4750 Foundations of Digital Signal Processing 3 Credits
Grading Scheme: Letter Grade
Analysis and design of digital filters for discrete signal processing, spectral analysis and fast Fourier transform.
Prerequisite: EEL 3135.

EEL 4853 Cross Layered System Security 3 Credits
Grading Scheme: Letter Grade
Develop an understanding of the principles of computer security, as it crosses layers of abstraction (application, operating system, hardware, and network). Learn the challenges of building secure computer systems with examples and hands-on assignments. Current research on these challenges will be discussed. Students will review and present conference papers.
Prerequisite: EEL 3834 or equivalent and EEL 4736 or equivalent.

EEL 4905 Individual Problems in Electrical Engineering 1-4 Credits
Grading Scheme: Letter Grade
Selected problems or projects in the student's major field of engineering study.

EEL 4912 Integrated Product and Process Design 1 3 Credits
Grading Scheme: Letter Grade
First part of two in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes, on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.
Prerequisite: EEE 3308C and EEL 3701C.

EEL 4913 Integrated Product and Process Design 2 3 Credits
Grading Scheme: Letter Grade
Second part of two in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes, on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.
Prerequisite: EEL 4912.

EEL 4924C Electrical Engineering Design 2 3 Credits
Grading Scheme: Letter Grade
Selected design projects involving engineering applications in the various areas of electrical engineering. Laboratory.
Prerequisite: EEL 3923C and two breadth electives and one depth elective.

EEL 4930 Special Topics in Electrical Engineering 1-4 Credits
Grading Scheme: Letter Grade
Special courses covering selected topics in electrical engineering.

EEL 4948 Practical Work in Electrical and Computer Engineering 1 Credit
Grading Scheme: S/U
One term industrial employment, including extra work according to a pre-approved outline. Practical engineering work under industrial supervision, as set forth in the Herbert Wertheim College of Engineering regulations.
Prerequisite: Engineering major of junior standing or higher.

EEL 4949 Co-op Work Experience 1 Credit
Grading Scheme: S/U
Practical co-op engineering work under approved industrial supervision.
Prerequisite: Engineering major.

EGN 1935 Special Topics in Freshman Engineering 1-3 Credits
Grading Scheme: Letter Grade
Laboratory, lectures or conferences cover selected topics in engineering.

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGS 1005 Prep for Success 1-4 Credits
Grading Scheme: S/U
Freshman success course that includes academic preparation in calculus, chemistry, student success and technical communications. (S-U)
Prerequisite: EG student.

Engineering

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

CGS 2531 Problem Solving Using Computer Software 3 Credits
Grading Scheme: Letter Grade
Problem-solving introduction and thorough exploration of word processing, spreadsheet management, data analysis, graphical display of data, and multimedia presentations. The problem-solving approach also aids students in their specific majors through software applications requiring major-specific professional communication skills in written, graphical, and presentation forms. (M)
Attributes: General Education - Mathematics

COP 2271 Computer Programming for Engineers 2 Credits
Grading Scheme: Letter Grade
Computer programming and the use of computers to solve engineering and mathematical problems. Emphasizes applying problem solving skills; directed toward technical careers in fields employing a reasonably high degree of mathematics. The programming language used depends on the demands of the departments in the college. Several languages may be taught each semester, no more than one per section. Those required to learn a specific language must enroll in the correct section. (M)
Prerequisite: MAC 2312 with minimum grade of C.

COP 2271L Computer Programming for Engineers Laboratory 1 Credit
Grading Scheme: Letter Grade
Optional laboratory for COP 2271. Required for ISE majors. (M)
Prerequisite: MAC 2312;
Corequisite: COP 2271.

EEL 3003 Elements of Electrical Engineering 3 Credits
Grading Scheme: Letter Grade
Introduces the theory and practice of electrical engineering for those not majoring in electrical engineering. Discusses circuits, machines, electronics and systems.
Prerequisite: MAC 2313 and PHY 2049.

EGM 3400 Elements of Dynamics 2 Credits
Grading Scheme: Letter Grade
Dynamics of particles and rigid bodies for rectilinear translation, curvilinear motion, rotation and plane motion. Also includes principles of work and energy, and impulse and momentum.
Prerequisite: EGM 2511 and (MAC 2313 with a minimum grade of C).

EGN 1935 Special Topics in Freshman Engineering 1-3 Credits
Grading Scheme: Letter Grade
Laboratory, lectures or conferences cover selected topics in engineering.

EGN 2020C Engineering Design & Society 2 Credits
Grading Scheme: Letter Grade
Introduction to emphasizing the human-centered design process to address societal challenges. Explore solid modeling, introductory programming, sensors, data acquisition, and 3D printing as maker tools for engineering prototyping. In a team environment, utilize multidisciplinary approaches, project management, and written and oral communication skills to create societal-based designs.

EGN 4641 Engineering Entrepreneurship 3 Credits
Grading Scheme: Letter Grade
Engineering Entrepreneurship introduces engineering students to the concepts and practices of technological entrepreneurial thinking and entrepreneurship. Using lectures, case studies, business plans and student presentations, the course teaches life skills in entrepreneurial thought and action that students can utilize when starting technology companies or executing research and development projects in large companies.
Prerequisite: junior standing or higher.

EGN 4643 Engineering Innovation 3 Credits
Grading Scheme: Letter Grade
Engineering Innovation introduces students to the concepts of innovative thinking and innovation practices. Using lectures, case studies, team exercises and guest speakers, the course teaches life skills in innovative thought and action that students can use in careers ranging from starting companies to executing research and development projects in large companies.
Prerequisite: junior standing or higher.

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGN 4932 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Covers selected, rotating topics in engineering.

EGN 4940 NSF Fellowship Preparation 1 Credit
Grading Scheme: Letter Grade
Overview of fellowship preparation pertaining to intellectual merit and broader impacts.

EGN 4949 Engineering Internship/Co-op 1-3 Credits
Grading Scheme: S/U
Practical Internship/Co-Op Work Experience Under Approved Industrial Supervision.
Prerequisite: Engineering major.

EGN 4956 International Studies in Engineering 1-4 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: admission to an approved UF study abroad program and undergraduate programs director permission through advising form.

EGS 1006 Introduction to Engineering 1 Credit
Grading Scheme: Letter Grade
Introduces the 11 departments that offer undergraduate degrees at UF. Students break into groups of 20, rotating weekly through each department. During these visits, students participate in hands-on experiments to help them make informed decisions about career alternatives.

EGS 2036 Fundamentals of the New Engineer 1 Credit
Grading Scheme: Letter Grade
Fundamentals of the New Engineer introduces students to key attributes of 21st century engineering leaders and innovators. Student learn concepts and practice of engineering leadership and innovation through study of the ?Attributes of a New Engineer?; Creativity, Leadership, Integrity, Professional Excellence, and Service to the Global Community.

EGS 4034 Engineering Ethics and Professionalism 1 Credit
Grading Scheme: Letter Grade
Provides students with an interactive study of ethical theory and the development of professionalism. Students review case studies of ethical conflicts in engineering practice. Course covers engineering codes of ethics and requires students to resolve theoretical situations through application of ethical codes.
Prerequisite: junior level standing.

EGS 4038 Engineering Leadership 3 Credits
Grading Scheme: Letter Grade
Engineering Leadership introduces engineering graduate students to the concepts, theory and practice of engineering leadership; effective written and oral communications and presentations; engineering leadership characteristics, individual differences and self-awareness; developing and building teams; managing change, conflicts, and crises; and understanding real-world ethics and core values.
Prerequisite: junior or senior standing.

EGS 4100 Divergent Thinking 3 Credits
Grading Scheme: Letter Grade
Acquire divergent thinking skills to support the engineering design process. Emphasizes the importance of practices such as observing, questioning, learning, and experimenting; Stresses cultivating an openness to new experiences In order to generate ideas and devise solutions to complex design problems.
Prerequisite: junior or senior level standing.

EGS 4625 Fundamentals of Engineering Project Management 3 Credits
Grading Scheme: Letter Grade
Provides a comprehensive understanding of how to plan, optimize, and efficiently manage projects (or tasks) to implement products, services, or developments. Includes building the structure, processes, components, and linkages with a team for successful project delivery within schedule, budget, and quality requirements.
Prerequisite: junior or senior level standing.

EGS 4627 Applied Engineering Project Management 3 Credits
Grading Scheme: Letter Grade
Applied Engineering Project Management expands on foundational project management practices to include complex as well as new project delivery concepts. Topics include project acquisition; negotiation skills; advanced risk planning and management; program management; project life cycle models and their applicability; and diagnostics and remedies for problem projects.
Prerequisite: EGS 4625 or equivalent, with instructor permission.

EGS 4680 Advanced Engineering Leadership Development 3 Credits
Grading Scheme: Letter Grade
Further develops the leadership framework and capabilities; involves a case study-based instructional approach that reviews and applies strategic leadership concepts and knowledge critical to the success of engineering-based companies that operate in a highly uncertain and volatile business environment.
Prerequisite: EGS 4038 or instructor permission.

EML 3007 Elements of Thermodynamics and Heat Transfer 3 Credits
Grading Scheme: Letter Grade
Applications of first and second laws of thermodynamics to closed and open systems. Steady one-dimensional conduction, lumped parameter analysis, convection, radiation. Intended for non-mechanical engineering students.
Prerequisite: CHM 2045 and MAC 2313 and PHY 2048.

English

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AML 2070 Survey of American Literature 3 Credits
Grading Scheme: Letter Grade
Introduces some of the major writers, issues and forms found in the history of American literature. The instructor determines the breadth and focus of this survey. (C or H) (WR)
Prerequisite: ENC 1101 or test score equivalent.
Attributes: General Education - Composition, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AML 2410 Issues in American Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Introduces some of the most important issues that arise in the study of American literature and culture. The instructor determines the breadth and focus of the topic. (C or H) (WR)
Prerequisite: ENC 1101 or test score equivalent.
Attributes: General Education - Composition, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AML 3031 American Literatures 1 3 Credits
Grading Scheme: Letter Grade
Selected texts from the Contact Period to 1865, in diverse historical and cultural contexts, usually organized around a theme or several themes.

AML 3041 American Literatures 2 3 Credits
Grading Scheme: Letter Grade
Selected texts from 1865 to the present, in diverse historical and cultural contexts, usually organized around a theme or several themes.

AML 3284 Surveys in American Women's Literatures 3 Credits
Grading Scheme: Letter Grade
Surveys traditions in American women's writings, covering a wide range of texts or focusing on a single theme, genre, period, literary movement or cultural tradition. Topics may include women's writings about feminism, family, work, nationalism or social justice; women's autobiography, poetry, experimental prose or domestic fiction; 19-century literature by women, contemporary women's poetry or colonial women's writing; realist, postmodern or sentimental fiction by American women; African American, New England, Native American, Southern or working-class writing; Chicano, Latina or lesbian literary traditions. Refer to department website.

AML 3285 Variable Surveys of American Literatures 3 Credits
Grading Scheme: Letter Grade
The rich cultural traditions found in American literature. Topics may include gay and lesbian, Jewish American, Chicano/a, Latino/a, Native American, Southern and other literatures. Refer to department website.

AML 3605 African-American Literature 1 3 Credits
Grading Scheme: Letter Grade
Surveys the development of African-American literature from its beginning to 1945.

AML 3607 African-American Literature 2 3 Credits
Grading Scheme: Letter Grade
Surveys the development of African-American Literature from 1945 to the present.

AML 3673 Asian-American Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics or survey focus on the major issues, movements or themes in the study of Asian-American literature and culture from the beginnings to the present. Topics may include Kung Fu films, cultural nationalism and feminism, model minorities, Angel Island literature, Asian-Americans in film and media, and several major authors. Consult department website.

AML 4170 Studies in American Literary Forms 3 Credits
Grading Scheme: Letter Grade
Study of genre, such as the novel, detective novel, political novel, historical novel, utopian fiction or Western; drama; short story; sermon traditions; African-American cultural forms, African-American folklore; long poem, lyric, philosophical poem, oral poetry; nature writing, autobiography, captivity narrative; narratives of exploration; political oratory; postmodernism; coming-out stories; humor. Refer to department website.

AML 4213 Studies in American Literature and Culture Before 1800 3 Credits
Grading Scheme: Letter Grade
Variable topics focus on one or more of the major issues, movements, forms or themes in the study of American literature and culture before 1800. Topics may include narratives of exploration and encounter, Puritan and/or Enlightenment writings, captivity and slave narratives, traditions of spiritual autobiography, post-colonial approaches to colonial rhetoric and poetry, and/or in-depth studies of selected writers. Refer to department website.

AML 4225 Studies in Nineteenth-Century American Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Variable topics focus on the major issues, movements, forms or themes in the study of American literature and culture before 1900. Topics may include the American Renaissance, literature and abolition, African American novels and poetry, romance and romanticism, race and sexuality, the rise of the short story, realism, naturalism, representations of the city, representations of the South, tropes such as the Noble Savage or the American Girl, and/or in-depth studies of selected writers. Refer to department website.

AML 4242 Studies in Twentieth-Century American Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Variable topics focus on one or more of the major issues, movements, forms or themes in the study of 20th-century American literature and culture. Topics may include Modernism, Post-Modernism, the Harlem Renaissance, Depression-era literature, American writers in Paris, consumer society, American fiction since 1945, poetry, Civil Rights literature, rhetorics of imperialism, and/or several major authors. Refer to department website.

AML 4282 Studies of Genders and Sexualities in American Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Variable topics focus on one or more of the major issues, movements, forms or themes in the study of American literature and culture. Topics may include masculinity and femininity in literature, lesbian possibilities in popular culture, feminism and womanism, traditions of gay self-representation. Refer to department website.

AML 4311 Major Figures of American Literature and Culture 3 Credits
Grading Scheme: Letter Grade
In-depth focus on one major author, such as Dickinson, Twain, Faulkner, Hurston, or Morrison. Refer to department website.

AML 4453 Studies in American Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Variable topics examine issues, movements, forms or themes that cross traditional period boundaries. Topics may include the city and the country in American fiction, Southern masculinity, reading and literacy in America, representations of class and religion in American literature, the body and technology, American regionalisms, the Pragmatist tradition, and nature and eco-criticism in American letters. Refer to department website.

AML 4685 Race and Ethnicity 3 Credits
Grading Scheme: Letter Grade
Variable topics examine issues, movements, forms or themes related to race and ethnicity in American literature. Topics may include Pacific Rim cultures in America, Chicano-Latino literature, the Black Arts Movement, constructing Native America, border-crossing and migration, post-war Jewish fiction, literature and the psychology of prejudice, comparative representations of racial and ethnic experience, representing whiteness, literatures of assimilation and multi-racial identities.

CRW 1101 Beginning Fiction Writing 3 Credits
Grading Scheme: Letter Grade
Beginning writing fiction workshop. Starts with the basics and students read a lot of fiction (you can't be a fiction writer without reading shelves of fiction). Students write stories and their fiction is discussed in workshop. (C) (WR)
Prerequisite: (freshman or sophomore standing) and (ENC 1101 or test score equivalency).
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

CRW 1301 Beginning Poetry Writing 3 Credits
Grading Scheme: Letter Grade
Workshop concentrates on the basics of reading and writing poetry (in order to write you have to read, and in order to be a reader you have to be a critic). Students write poems and some are discussed in workshop. (C) (WR)
Prerequisite: (freshman or sophomore standing) and (ENC 1101 or test score equivalency).
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

CRW 2100 Fiction Writing 3 Credits
Grading Scheme: Letter Grade
Continues instruction in basic techniques of voice, plot and character, while introducing advanced ones. Students read a lot of good stories and write a few themselves. Samuel Johnson said, "No man but a blockhead ever wrote, except for money." Juniors or seniors who have not taken CRW 1101 or CRW 1301 must have strong composition skills. (C) (WR)
Prerequisite: CRW 1101 or junior/senior standing.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

CRW 2300 Poetry Writing 3 Credits
Grading Scheme: Letter Grade
Writing poetry may become an addiction. This workshop continues with matter-of-fact techniques and some fancy ones as well. Students write poems and read some difficult and thrilling poetry of the past and present. By the end, students may be able to say, with Humpty Dumpty, I can explain all the poems that ever were invented - and a good many that haven't been invented just yet. Juniors or seniors who have not taken CRW 1101 or CRW 1301 must have strong composition skills. (C) (WR)
Prerequisite: CRW 1301 or junior/senior standing.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

CRW 3110 Advanced Seminar in Fiction Writing 3 Credits
Grading Scheme: Letter Grade
Small workshop for students who have made their way out of beginner's workshops with sanity intact. Now the work gets more difficult, more deranged and more delightful. Emerson said, "People do not deserve to have good writing, they are so pleased with bad." Admission by manuscript review during advanced registration (refer to department website); by prerequisite during drop/add.
Prerequisite: CRW 2100.

CRW 3310 Advanced Seminar in Poetry Writing 3 Credits
Grading Scheme: Letter Grade
More reeling and writhing," as Lewis Carroll said. An intense workshop for a small group of poets who have stared at the Pacific with a wild surmise. Like Balboa - or was it Cortez? Admission by manuscript review during advanced registration (refer to department website); by prerequisite during drop/add.
Prerequisite: CRW 1301 or CRW 2300.

CRW 4905 Senior Advanced Workshop in Fiction Writing 3 Credits
Grading Scheme: Letter Grade
For students who want to trouble the literary editors and readers of the future. Many members of this class have gone on to graduate school in writing. Ants eat everything that is written, said an explorer. This is a workshop for ants. Admission by manuscript review during advanced registration (refer to department website); by prerequisite during drop/add.
Prerequisite: CRW 3110.

CRW 4906 Senior Advanced Workshop in Poetry Writing 3 Credits
Grading Scheme: Letter Grade
George I said, "I hate all Boets and Bainters." For battle-scarred veterans of previous workshops who now want the full treatment, this is a small workshop for serious poets who want to write their names in water, as long as they are also in the Norton Anthology. Students often go from this class into MFA programs in poetry. Admission by manuscript review during advanced registration (refer to department website); by prerequisite during drop/add.
Prerequisite: CRW 3310.

ENC 1136 Multimodal Writing and Digital Literacy 3 Credits
Grading Scheme: Letter Grade
Teaches digital literacy and digital creativity. Compose and convey creative, well-researched, carefully crafted information through digital platforms and multimodal documents. Also promotes digital writing and research as central to academic, civic, and personal expression.

ENC 1145 Topics for Composition 3 Credits
Grading Scheme: Letter Grade
Instruction in expository-argumentative writing related to one special topic selected by the instructor. Readings include variable genres from different disciplines. (C or H) (WR)
Prerequisite: ENC 1101 or test score equivalency.
Attributes: General Education - Composition, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

ENC 2210 Technical Writing 3 Credits
Grading Scheme: Letter Grade
Surveys the forms and methods of communication used in business, industry and government, including nonformal and formal reports, letters, resumes and proposals. (C) (WR)
Prerequisite: ENC 1101 or test score equivalency.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 3250 Professional Communication 3 Credits
Grading Scheme: Letter Grade
Professional writing course relevant in business, industry, government and other institutional settings. Covers major elements of organizational communication with emphasis on composition of letters and memos, reports, proposals and manuals. (WR)
Prerequisite: junior or senior standing and two 1000- or 2000-level English courses.
Attributes: Satisfies 6000 Words of Writing Requirement

ENC 3310 Advanced Exposition 3 Credits
Grading Scheme: Letter Grade
Advanced composition course in methods of exposition: definition, classification, comparison and contrast, analysis, illustration and identification. (WR)
Prerequisite: junior/senior standing and two 1000/2000-level English courses.
Attributes: Satisfies 6000 Words of Writing Requirement

ENC 3312 Advanced Argumentative Writing 3 Credits
Grading Scheme: Letter Grade
Advanced composition concerned with the writing of argument and critical analysis. (WR)
Prerequisite: junior/senior standing and two 1000/2000-level English courses.
Attributes: Satisfies 6000 Words of Writing Requirement

ENC 3414 Hypermedia 3 Credits
Grading Scheme: Letter Grade
The study and production of digital media, with emphasis on the World Wide Web.

ENC 4212 Professional Editing 3 Credits
Grading Scheme: Letter Grade
How to perform different levels of editing on a range of professional texts, including both printed and online texts as well as both technical and literary ones.
Prerequisite: ENC 3250 or ENC 2210, and instructor permission.

ENC 4260 Advanced Professional Writing 3 Credits
Grading Scheme: Letter Grade
Administrative communication, professional papers, research reports, proposals and other major professional documents, depending on the needs of the students who must have developed communication skills. (WR)
Prerequisite: ENC 2210 or ENC 3250, or instructor permission.
Attributes: Satisfies 6000 Words of Writing Requirement

ENC 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

ENG 1131 Writing through Media 4 Credits
Grading Scheme: Letter Grade
The media studies equivalent of ENC 1102, Writing about Literature. Explores the practices of literacy in the context of popular culture, including cinema, television, advertising, popular fiction and journalism. (C or H) (WR)
Prerequisite: ENC 1101 or test score equivalent.
Attributes: General Education - Composition, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

ENG 1400 Introduction to Popular Film 3 Credits
Grading Scheme: Letter Grade
Designed for non-majors seeking humanities credit in the areas of film and popular culture. Introduces the study of contemporary movies through attention to film form and structure, film genres and attention to popular culture. Students are expected to see new movies off campus. (H)
Attributes: General Education - Humanities

ENG 2300 Film Analysis 4 Credits
Grading Scheme: Letter Grade
Introduces thinking and writing about the cinema by means of film theory and history. (C or H) (WR)
Prerequisite: ENC 1101 or test score equivalent.
Attributes: General Education - Composition, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

ENG 2935 English: College Honors 1 3 Credits
Grading Scheme: Letter Grade
Writing about novels, short stories, film and cultural studies primarily by American and British authors. Text and assignments are chosen to match the abilities of honor students. (C or H) (WR)
Attributes: General Education - Composition, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

ENG 3010 The Theory and Practice of Modern Criticism 3 Credits
Grading Scheme: Letter Grade
An intensive introductory study of 20th-century theory.

ENG 3011 The Theorists 3-6 Credits
Grading Scheme: Letter Grade
Studies one or more theorists, contemporary or historical.

ENG 3063 Advanced Grammar: Analysis and Application 3 Credits
Grading Scheme: Letter Grade
An extensive and sophisticated study of grammar, as well as a practical appreciation of its rhetorical purposes.

ENG 3113 The Movies as Narrative Art 4 Credits
Grading Scheme: Letter Grade
Examines movies as a mode of storytelling by emphasizing the difference between verbal and visual narration, and relation to contemporary thought and values.

ENG 3115 Introduction to Film: Criticism and Theory 4 Credits
Grading Scheme: Letter Grade
Introduces the principal theoretical and critical issues raised by the first century of the cinema.

ENG 3121 History of Film, Part 1 4 Credits
Grading Scheme: Letter Grade
History of film from its beginnings to the introduction of sound.

ENG 3122 History of Film, Part 2 4 Credits
Grading Scheme: Letter Grade
History of film from the introduction of sound to 1960.

ENG 3125 History of Film, Part 3 4 Credits
Grading Scheme: Letter Grade
History of film from 1960 to the present.

ENG 4015 Psychological Approaches to Literature 3 Credits
Grading Scheme: Letter Grade
Use of various psychological concepts to the application of literary study. Refer to department website.

ENG 4060 History of the English Language 3 Credits
Grading Scheme: Letter Grade
Origins of the English language and its development from Old English to the present. Students should have completed an introductory linguistics course (LIN 2000, LIN 2001 or LIN 3010). Refer to department website.

ENG 4130 Race and Ethnicity in Film 4 Credits
Grading Scheme: Letter Grade
Critical and historical study of films and videos by and about people of color in the Americas, Africa, Australia and Europe.

ENG 4133 Film Studies 4 Credits
Grading Scheme: Letter Grade
Variable topics provide in-depth study of film genres, notable film directors, and other significant topics on subjects related to film.

ENG 4134 Women and Film 4 Credits
Grading Scheme: Letter Grade
Studies the roles and function of women in mainstream and alternative cinema, including study of feminist film criticism and theories of gender.

ENG 4135 National Cinemas 4 Credits
Grading Scheme: Letter Grade
Variable topics study of the films of historically important national cinemas, such as American, French, German, Italian, Russian, Japanese.

ENG 4136 Film and Video Production 4 Credits
Grading Scheme: Letter Grade
Seminar on the independent and experimental uses of small-format film and video production.

ENG 4139 Television and Electronic Culture 4 Credits
Grading Scheme: Letter Grade
Explores the development of new modes of thought, forms of art, popular culture, and social practices based on the electronic technology of video and computers.

ENG 4146 Advanced Film and Video Production 4 Credits
Grading Scheme: Letter Grade
Variable topics focus on one or more advanced aspects of film and video production, including such topics as editing of film and video or the production of 16mm films.
Prerequisite: ENG 4136.

ENG 4310 Film Genres Directors 4 Credits
Grading Scheme: Letter Grade

ENG 4844 Queer Theory 3 Credits
Grading Scheme: Letter Grade
Overview of major concerns, methodologies and texts in queer theory, illuminating the theoretical insights, assumptions and implications of various constructions of gender, sex and sexuality.

ENG 4905 Independent Study 1-3 Credits
Grading Scheme: Letter Grade
For advanced students who desire to supplement the regular courses by independent reading or research under guidance.
Prerequisite: instructor and/or department permission.

ENG 4911 Undergraduate Research in English 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in English. Projects may involve inquiry, design, investigation, scholarship, discovery or application in English.

ENG 4936 Honors Seminar 3 Credits
Grading Scheme: Letter Grade
Open to English majors who have maintained an overall junior/senior level GPA of 3.5. Small seminar classes study topics in English and American literature or film.
Prerequisite: undergraduate coordinator and/or department permission.

ENG 4940 English Internship 1-3 Credits
Grading Scheme: S/U
Admission requires a written proposal of appropriate work experience from the student and a written acceptance for employment from the employer, including designation of a supervisor. Successful completion requires a written summation of the work experience from the student and a written evaluation of performance by the supervisor. (S-U)
Prerequisite: 12 credits of 3000/4000-level work in English and undergraduate coordinator permission.

ENG 4953 Department Seminar 3 Credits
Grading Scheme: Letter Grade
Seminar offered on a space-available basis allowing department majors to develop their individual programs of study while focusing on a common topic.
Prerequisite: English major and 9 credits of 3000/4000-level work in English.

ENG 4970 Honors Thesis Project 3 Credits
Grading Scheme: Letter Grade
Student selects an English faculty member to act as director for an independent research project that culminates in preparation of an honors thesis. An abstract and one copy of the thesis must be delivered to 101 Academic Advising Center by the semester deadline specified by the Honors Office.
Prerequisite: completion of one semester of ENG 4936; undergraduate coordinator permission. Open to English honors students.

ENL 2012 Survey of English Literature: Medieval to 1750 3 Credits
Grading Scheme: Letter Grade
Introduces some of the major writers, issues and forms found in the history of the period. The instructor determines the breadth and focus of this survey. (C or H) (WR)
Prerequisite: ENC 1101 or test score equivalent.
Attributes: General Education - Composition, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

ENL 2022 Survey of English Literature: 1750 to the Present 3 Credits
Grading Scheme: Letter Grade
Introduces some of the major writers, issues and forms found in the history of the period. The instructor determines the breadth and focus of this survey. (C or H) (WR)
Prerequisite: ENC 1101 or test score equivalent.
Attributes: General Education - Composition, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

ENL 2330 Introduction to Shakespeare 3 Credits
Grading Scheme: Letter Grade
Introduces the pleasure and wisdom of Shakespeare's plays. Various approaches are used: movie versions of the plays, staging of scenes from the plays and discussion. (H)
Prerequisite: ENC 1101 or test score equivalent.
Attributes: General Education - Humanities

ENL 2930 Special Topics 3 Credits
Grading Scheme: Letter Grade
Variable topics focus on major issues and themes in British literature and culture.
Prerequisite: ENC 1101 or equivalent.

ENL 3122 The English Novel: 19th Century 3 Credits
Grading Scheme: Letter Grade
Includes works by such writers as Scott, Austen, Dickens, Thackeray, Eliot and Hardy.

ENL 3132 The English Novel: 20th Century 3 Credits
Grading Scheme: Letter Grade
Includes works by such writers as Conrad, Lawrence, Joyce, Forster, Woolf, Greene and Waugh.

ENL 3154 Twentieth-Century British Poetry 3 Credits
Grading Scheme: Letter Grade
General study of the most prominent British poets of the 20th Century with particular emphasis on Yeats, Lawrence, Graves, Eliot, Sitwell, Dylan Thomas and Ted Hughes.

ENL 3210 Medieval English Literature 3 Credits
Grading Scheme: Letter Grade
Surveys representative works of the Middle English period such as Sir Gawain and the Green Knight, Pearl, Malory's Morte D'Arthur and selections from medieval drama, lyric poetry, mystical writings and writings by and about women.

ENL 3230 The Age of Dryden and Pope 3 Credits
Grading Scheme: Letter Grade
Selections from the best works of such writers as Dryden, Congreve, Addison, Swift and Pope.

ENL 3234 The Long Eighteenth Century: Themes and Interpretation 3 Credits
Grading Scheme: Letter Grade
Rotating topics courses on eighteenth-century British literature, with an emphasis on themes rather than genres. These include but are not limited to literature's engagement with social issues, material history, and the history of ideas. The instructor determines the breadth and focus of this course; refer to department website.
Prerequisite: 6 credits of English at the 1000/2000 level, or department permission.

ENL 3235 The Long Eighteenth Century: Imaginative Genres 3 Credits
Grading Scheme: Letter Grade
Rotating topics courses on eighteenth-century British literature, focusing on imaginative genres; especially genres other than the novel, such as drama, poetry, and non-novelistic prose fiction. The instructor determines the breadth and focus of this course; refer to department website.
Prerequisite: 6 credits of English at the 1000/2000 level, or department permission.

ENL 3240 The Romantic Period 3 Credits
Grading Scheme: Letter Grade

ENL 3251 Victorian Literature 3 Credits
Grading Scheme: Letter Grade
Selections from Tennyson, Browning, C. Bronte, Wilde, G.M. Hopkins and Arnold. Examines the beliefs and paradoxes of Victorian culture through the poetry, fiction, drama, visual arts and critical theory of representative figures. Investigates the social and cultural assumptions which underlie the artists' approaches to their themes as well as the themes themselves. Refer to department website.

ENL 3350 Age of Johnson 3 Credits
Grading Scheme: Letter Grade

ENL 4220 Renaissance Literature: 16th Century 3 Credits
Grading Scheme: Letter Grade
Variable topics in Tudor literature and culture, 1485-1603. Focuses on or combine topics such as the development of literary genres; the works of single or paired authors; the social institutions and material conditions of textual production; thematically organized studies of cultural relations between literary and nonliterary texts; issues of gender, religion, nationhood and race; and writing in the emergence of an English literature. Refer to department website.

ENL 4221 Renaissance Literature: 17th Century 3 Credits
Grading Scheme: Letter Grade
Variable topics in Stuart Literature and Culture, 1603-1700. Focuses on or combine topics such as the progress of literary genres; the works of single or paired authors; the social institutions and material conditions of textual production; thematically organized studies of cultural relations between literary and nonliterary texts; issues of gender, religion, nationhood and race; and writing in the era before, during and after the English Revolution. Refer to department website.

ENL 4273 Twentieth Century British Literature 3 Credits
Grading Scheme: Letter Grade
Variable topics on major works of drama, poetry or prose from twentieth-century Britain. Refer to department website.

ENL 4311 Chaucer 3 Credits
Grading Scheme: Letter Grade
Reading and critical study of Chaucer's poetry with emphasis on the Canterbury Tales and Troilus and Criseyde, in addition to some attention to the minor works.

ENL 4333 Shakespeare 3-6 Credits
Grading Scheme: Letter Grade
Studies selections from Shakespeare. Topics include tracing Shakespeare's dramatic career, concentrating on one or several genres including histories, comedies, tragedies and romances; developing the history of Shakespeare reception; approaching Shakespeare through performance, including acting and directing; and approaching Shakespeare through feminist, materialist or psychoanalytic methods. Refer to department website.

LIN 4400 Introduction to Morphology 3 Credits
Grading Scheme: Letter Grade
Theory of word structure, derivation and inflection, with examples and problems from a variety of languages. Includes the position of morphology in grammar, the relationship between morphology and grammar, typology, cultural and conceptual categories, and predictions of various theories of morphology. May be taught in conjunction with a graduate class that bears the same title.
Prerequisite: LIN 3010 and LIN 3460.

LIT 2000 Introduction to Literature 3 Credits
Grading Scheme: Letter Grade
Examines the important role literature has played in individuals' lives and in society, presenting a range of literary styles and genres, from different countries and historical periods. Special attention paid to development of critical skills of analysis and interpretation. (H)
Prerequisite: ENC 1101
Attributes: General Education - Humanities

LIT 2110 Survey of World Literature: Ancient to Renaissance 3 Credits
Grading Scheme: Letter Grade
Introduces some of the major writers, issues and forms found in the history of the period. The instructor determines the breadth and focus of this survey. (C or H, and N) (WR)
Prerequisite: ENC 1101 or test score equivalent.
Attributes: General Education - Composition, General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

LIT 2120 Survey of World Literature: 17th Century to Modern 3 Credits
Grading Scheme: Letter Grade
Introduces some of the major writers, issues and forms found in history of the period. The instructor determines the breadth and focus of this survey. (C or H, and N) (WR)
Prerequisite: ENC 1101 or test score equivalent.
Attributes: General Education - Composition, General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

LIT 3003 The Forms of Narrative 3 Credits
Grading Scheme: Letter Grade
A close reading and critical analysis of representative forms and styles of narrative, to improve the student's ability to study narrative structures and theories of narrative. Refer to department website.

LIT 3031 Studies in Poetry 3 Credits
Grading Scheme: Letter Grade
Variable topics provide in-depth study of genre such as the lyric, epic or sonnet, or of developments in periods of literature such as the medieval, American or African. Emphasis on refining the ability to read and analyze texts carefully and accurately. Refer to department website.

LIT 3041 Studies in Drama 3 Credits
Grading Scheme: Letter Grade
Variable topics provide in-depth study of genre such as comedy or tragedy, or of developments in periods such as the Elizabethan, Jacobean or Restoration. Refer to department website.

LIT 3043 Studies in Modern Drama 3 Credits
Grading Scheme: Letter Grade
Representative selections from continental, British and American playwrights. Refer to department website.

LIT 3173 Jewish Literature 3 Credits
Grading Scheme: Letter Grade
Variable topics in the Jewish literary experience, from the biblical narrative and classical tales to Yiddish and Hebrew literature, the modern European novel, and American Jewish fiction. (H and N)
Attributes: General Education - Humanities, General Education - International

LIT 3362 The Age of the Avant-Garde 3 Credits
Grading Scheme: Letter Grade
Examines the revolutionary experimentalist aspects of modern and contemporary culture, such as cubism, surrealism, structuralism, and conceptualism.

LIT 3374 The Bible as Literature 3 Credits
Grading Scheme: Letter Grade
Literary analysis from the Hebrew and Christian Bibles, with emphasis upon poetry and narrative. (H and N)
Attributes: General Education - Humanities, General Education - International

LIT 3383 Women in Literature 3 Credits
Grading Scheme: Letter Grade
Critical and thematic study of women in literature that may include fiction, poetry or drama in English, American or world literature. Refer to department website. (D and H)
Attributes: General Education - Diversity, General Education - Humanities

LIT 3400 Interdisciplinary Topics in Literature 3 Credits
Grading Scheme: Letter Grade
Interdisciplinary variable-topics study of the vital relationship between literature and other creative arts, other humanistic disciplines or the sciences and technology. Refer to department website.

LIT 4188 World English Language Literatures 3 Credits
Grading Scheme: Letter Grade
Variable topics focus on one or more of the diverse English language literary traditions, including those of Ireland, Scotland, India, Nigeria, the Caribbean, Canada and Australia. Refer to department website.

LIT 4192 Caribbean Literature in English 3 Credits
Grading Scheme: Letter Grade
Variable topics focus on the critical and analytical study of representative Caribbean authors writing in English. Refer to department website.

LIT 4194 African Literature in English 3 Credits
Grading Scheme: Letter Grade
Critical and analytical study of representative Black-African authors writing in English, notably Achebe, Awoonor, Ngugi, Aidoo, Soyinka, Armah, Ekwensi, Mphalele and p'Bitek'. (H and N)
Attributes: General Education - Humanities, General Education - International

LIT 4233 Postcolonial Literature, Culture and Theory 3 Credits
Grading Scheme: Letter Grade
Variable topics explore the issues, questions and themes raised in the rich literature, culture and theory that emerge as a response to and in contestation of the experiences of the colonial and postcolonial worlds. Refer to department website.

LIT 4305 Comics Studies 4 Credits
Grading Scheme: Letter Grade
Variable topics provide an opportunity for the in-depth study of comics genres, notable comics writers and illustrators and other significant topics on related subjects.

LIT 4322 The Folktale 3 Credits
Grading Scheme: Letter Grade
Reading folktales, myths and legends, particularly those told orally by ethnic, indigenous and emigrant cultures within the USA. Attention is paid to critical theory and the scholarly study of the folktale. In addition, the use of the folktale by creative writers and teachers is discussed.

LIT 4331 Children's Literature 3 Credits
Grading Scheme: Letter Grade
Designed to arouse a genuine interest in children's books and to aid the student in obtaining a critical knowledge of the literature.

LIT 4332 Literature for Young Children 3 Credits
Grading Scheme: Letter Grade
Explores kinds and qualities of literature for the younger child, examining the child's first experience with literature in oral forms, then moving on to picture and story books and poetry.

LIT 4333 Literature for the Adolescent 3 Credits
Grading Scheme: Letter Grade
Studies the types of literature read by adolescents, with emphasis upon the criteria for the choice of good books and upon developing a familiarity with the many books available.

LIT 4334 Golden Age of Children's Literature 3 Credits
Grading Scheme: Letter Grade
Origins and evolution of the Anglo-American tradition in literature for young readers, 1720-1920, with an emphasis on the Victorian era. Authors may include Defoe, Scott, Cooper, Dickens, Alcott, Twain and Stevenson.

LIT 4483 Issues and Methods in Cultural Studies 3 Credits
Grading Scheme: Letter Grade
Introduces the issues and methodology used in cultural studies. Students will be encouraged to explore a number of methods by which culture is analyzed, understood and disseminated. Refer to department website.

LIT 4554 Feminist Theories 3 Credits
Grading Scheme: Letter Grade
Introduces a variety of analytic, theoretical and interpretive approaches under the general rubric feminist theory. Course concentrates on current issues in literary and cultural studies, but also discusses other disciplines as well.

LIT 4930 Variable Topics in Literature and Language 3 Credits
Grading Scheme: Letter Grade
Proseminar of variable content providing an opportunity for the in-depth study of various topics such as the literature of war and peace, of death and of courtly love. Refer to department website.

RED 1343 Reading and Writing Content Area 1-7 Credits
Grading Scheme: Letter Grade
Covers the fundamentals of beginning college writing and critical reading skills.

SPC 3602 Advanced Public Speaking 3 Credits
Grading Scheme: Letter Grade
Studies principles and methods of selected forms of public speaking for various purposes, audiences and contexts.
Prerequisite: SPC 2608 or equivalent.

SPC 3605 Speechwriting 3 Credits
Grading Scheme: Letter Grade
Consideration of and practice with word choice and word arrangement as sources of style that influence memorability, credibility, and ease and accuracy of comprehension.

SPC 4680 Rhetorical Criticism 3 Credits
Grading Scheme: Letter Grade
Critical analyses of rhetorical elements and processes in oratorical and non-oratorical forms.

Entomology and Nematology

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

ALS 2160 Bioterrorism 3 Credits
Grading Scheme: Letter Grade
Bioterrorism directed against agriculture and human health has scientific (development of the threat agent, its deployment and mitigation), social and legal components. Discusses how threats may be alleviated and future attacks responded to, and how risk is best communicated to affected citizens.
Prerequisite: admission to the honors program.

ALS 2931 Agricultural Honors 1-4 Credits
Grading Scheme: Letter Grade
Various courses offered. (WR)
Prerequisite: refer to the department.
Attributes: Satisfies 6000 Words of Writing Requirement

ALS 3153 Agricultural Ecology 3 Credits
Grading Scheme: Letter Grade
Introduces the study of ecology from an agricultural perspective. Emphasizes ecological principles with examples and applications from agriculture.

ALS 3203 PC Use in Agriculture 3 Credits
Grading Scheme: Letter Grade
Introduces PC computer skills, file management, software application, hardware, purchasing one's own PC system. Focus is on the use of computers for preparing documents and presentations.

ALS 4161 Exotic Species and Biosecurity Issues 3 Credits
Grading Scheme: Letter Grade
Studies U.S. policies and programs affecting agricultural biosecurity as applied to current agricultural and extension and regulatory programs. Emphasis is on policies and procedures used to detect and report non-indigenous species. Students will develop the analytical capabilities to assess the consequences of agricultural biosecurity threats.
Prerequisite: BSC 2010/BSC 2010L and BSC 2011/BSC 2011L, or equivalent.
Corequisite: HOS 3020C or ENY 3005/ENY 3005L or PLP 3002C.

ALS 4162 Consequences of Biological Invasions 3 Credits
Grading Scheme: Letter Grade
Non-native species invasions and environmental effects of these invaders. Students will develop analytical capabilities to assess the consequences of biological invasions.
Prerequisite: BSC 2010/BSC 2010L and BSC 2011/BSC 2011L, or equivalent.

ALS 4163 Challenges in Plant Resource Protection 3 Credits
Grading Scheme: Letter Grade
Applied training in the regulatory aspects of plant protection, using real-world case studies, scenarios and issues.
Prerequisite: BSC 2010/BSC 2010L and BSC 2011/BSC 2011L, or equivalent.
Corequisite: HOS 3020C or ENY 3005/ENY 3005L or PLP 3002C.

ENY 1001 Bugs and People 3 Credits
Grading Scheme: Letter Grade
Introduction for lower-division students who want to learn popular information about insects and associated organisms. (B)
Attributes: General Education - Biological Science

ENY 2040 The Insects 3 Credits
Grading Scheme: Letter Grade
Introduces insect biology, insect-organism interaction and insect association with man. Features discussion of basic biological principles using insects as examples. (B)
Attributes: General Education - Biological Science

ENY 2041C Practical Beekeeping 3 Credits
Grading Scheme: Letter Grade
Establish colonies of european-derived honey bees and manage them to be healthy and productive;A hybrid approach combines online lectures and in-person field experiences.

ENY 2890 Using Insect Research to Understand the Nature of Scientific Engagement 3 Credits
Grading Scheme: Letter Grade
A classroom undergraduate research experience (CURE) which bridges the divide between the classroom and the science laboratory and prepares for advanced opportunities in entomological science. become part of an entomology research team, collecting publishable data on insect evolution, ecology, and systematics.

ENY 3005 Principles of Entomology 2 Credits
Grading Scheme: Letter Grade
Introduces principles of insect study, including insect structure, insect development, evolutionary insect history and its ecological significance. (B)
Corequisite: ENY 3005L.
Attributes: General Education - Biological Science

ENY 3005L Principles of Entomology Laboratory 1 Credit
Grading Scheme: Letter Grade
Provides practical laboratory experience working with insects, dissecting insects and preparing lab reports. Insect collection is required. (B)
Corequisite: ENY 3005.
Attributes: General Education - Biological Science

ENY 3007C Life Science 3 Credits
Grading Scheme: Letter Grade
Introduces insects and their interactions with man and the environment.

ENY 3030C Insect Field Biology 3 Credits
Grading Scheme: Letter Grade
The roles of insects in nature, emphasizing field exercises and experiments. For non-majors.

ENY 3163 Invertebrate Field Biology 3 Credits
Grading Scheme: Letter Grade
Field-oriented surveys of invertebrate biodiversity and conservation.

ENY 3222C Biology and Identification of Urban Pests 3 Credits
Grading Scheme: Letter Grade
Biology, behavior, ID and damage recognition of insect and vertebrate pests.
Prerequisite: ENY 3005 and ENY 3005L.

ENY 3225C Principles of Urban Pest Management 3 Credits
Grading Scheme: Letter Grade
Methods of controlling household, structural and occasional pests with emphasis placed on cockroaches, termites and fleas.
Prerequisite: ENY 3005 and ENY 3005L.

ENY 3228 Urban Vertebrate Pest Management 2 Credits
Grading Scheme: Letter Grade
The biology, ecology, health risks, exclusions and control of vertebrate pests in the urban environment.

ENY 3451C Insect Behavior 3 Credits
Grading Scheme: Letter Grade
Provides a theoretical and empirical overview of insect behavior, ranging from physiology underlying behavior to the evolution of behavioral diversity. Focuses on recent and current research on insect behavior, the diversity of approaches for studying it, and how this knowledge can be applied to solve human challenges.
Prerequisite: ENY 1001 or ENY 2040 or ENY 3005 or BSC 2005 or BSC 2010, or instructor permission.

ENY 3510C Turf and Ornamental Entomology 3 Credits
Grading Scheme: Letter Grade
Biology, identification and management of arthropods that infect turfgrass and ornamental plants in urban landscape and in nurseries and greenhouses.

ENY 3541C Tree and Shrub Insects 3 Credits
Grading Scheme: Letter Grade
Emphasizes biology and management options for the control of insect pests associated with woody plants.

ENY 3563 Introduction to Tropical Entomology 3 Credits
Grading Scheme: Letter Grade
Natural history, ecology and behavior of tropical insects in natural and agroecosystems. Designed for students without previous experience in tropics.
Prerequisite: ENY 3005 and ENY 3005L.

ENY 3564L Tropical Entomology Field Laboratory 2 Credits
Grading Scheme: Letter Grade
A 10-day trip to a tropical country to study the insect faunas of natural and agroecosystems. Each student is assigned a field project.
Prerequisite: ENY 3563.

ENY 4161 Insect Classification 3 Credits
Grading Scheme: Letter Grade
Classification of major families of adult insects with emphasis on their identification, habitat and niche. A properly curated collection is required. (B)
Prerequisite: ENY 3005 and ENY 3005L.
Attributes: General Education - Biological Science

ENY 4202 Ecology of Vector-Borne Disease 2 Credits
Grading Scheme: Letter Grade
Introduces critical components of vector-borne disease systems and basic concepts inherent to disease ecology. Focuses on vector-borne diseases of humans and wildlife and how aspects of the environment and host/vector biology influence disease transmission. Topics include epidemiology, transmission models, and emerging diseases.
Prerequisite: BSC 2010 or equivalent.

ENY 4208 Ecology and Conservation of Pollinators 3 Credits
Grading Scheme: Letter Grade
Examines interactions between animals and the plants that they pollinate, current threats to pollinator populations, and the conservation of pollinators worldwide; explore these topics through readings, discussion, and a field research project.
Prerequisite: BSC 2010 and BSC 2010L or equivalents with minimum grades of C-, and junior standing or higher.

ENY 4210 Insects and Wildlife 3 Credits
Grading Scheme: Letter Grade
Introduces insects and other arthropods and their relationships with wild vertebrate animals.
Prerequisite: ENY 3005L or equivalent entomology laboratory.

ENY 4221 Termite Biology and Control 2 Credits
Grading Scheme: Letter Grade
Taxonomy, identification, behavior, ecology and methods of control for the economically important termites in the New World.

ENY 4230 Urban Pesticide Application 1-6 Credits
Grading Scheme: Letter Grade
Practical work experience in urban pesticide application; study pest management problems on campus and in residences.
Prerequisite: ENY 3005 and ENY 3005L.

ENY 4453 Behavioral Ecology and Systematics 3 Credits
Grading Scheme: Letter Grade
Introduces behavioral ecology and systematics of insects. (B)
Prerequisite: ENY 3005 and ENY 3005L.
Attributes: General Education - Biological Science

ENY 4455C Social Insects 3 Credits
Grading Scheme: Letter Grade
Introduces social wasps, bees, ants and termites: their natural history; social behavior; division of labor, caste differentiation, evolution, identification and rearing. Laboratory involves live insects.

ENY 4573 Beekeeping 3 Credits
Grading Scheme: Letter Grade
Biology of honey bees and the craft of apiculture; examines the natural history, biogeography, and ecology of honey bees. Topics include honey bee anatomy, physiology, colony social structure, pests/diseases, pollination ecology, management, and current topics in beekeeping.
Prerequisite: junior standing or higher.

ENY 4590C Mosquito Identification 3 Credits
Grading Scheme: Letter Grade
Intensive, hands-on training on morphological features and the identification of adult and larval mosquito species that occur in North America.
Prerequisite: junior standing or higher.

ENY 4592 Mosquito Biology 3 Credits
Grading Scheme: Letter Grade
This modular course covers six critical areas of mosquito biology; classification, natural history and ecology, physiology, population dynamics, mosquito-borne diseases and control of mosquitoes. Students will understand the fundamental processes governing mosquitoes and mosquito-borne diseases.
Prerequisite: junior standing or higher.

ENY 4660 Medical and Veterinary Entomology 2 Credits
Grading Scheme: Letter Grade
Presents the major insect, mite and tick vectors of disease to man and animals. Topics includes arthropod-transmitted diseases, the interaction between pathogens and the arthropod vector, and the mechanical damage that a parasite inflicts on its host. (B)
Prerequisite: ENY 3005 and ENY 3005L.
Attributes: General Education - Biological Science

ENY 4660L Medical and Veterinary Entomology Laboratory 1 Credit
Grading Scheme: Letter Grade
Identifying mosquitoes, ticks, lice, fleas and other disease vectors. Insect collection required. (B)
Corequisite: ENY 4660.
Attributes: General Education - Biological Science

ENY 4701 Forensic Entomology 3 Credits
Grading Scheme: Letter Grade
The role of arthropods in decomposition, in criminal and civil investigations and the increasing importance of science on society. Material and discussions deal with death and some may consider course images and concepts disturbing.

ENY 4900 Supervised Extension Experience in Entomology and Nematology 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in entomology and nematology under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

ENY 4905 Problems in Entomology 1-5 Credits
Grading Scheme: Letter Grade
Problems in any field of specialization in entomology and nematology.
Prerequisite: ENY 3005 and the basic course in selected specialization.

ENY 4911 Supervised Research in Entomology 0-3 Credits
Grading Scheme: Letter Grade
Firsthand, authentic research in entomology under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application.

ENY 4915 Honors Thesis Research in Entomology 0-3 Credits
Grading Scheme: S/U
Independent research in entomology leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

ENY 4932 Special Topics in Entomology and Nematology 1-3 Credits
Grading Scheme: Letter Grade
Special topics in Entomology and Nematology.
Prerequisite: sophomore standing or higher.

IPM 3022 Fundamentals of Pest Management 3 Credits
Grading Scheme: Letter Grade

IPM 4254 Landscape Integrated Pest Management: Ornamentals and Turf 3 Credits
Grading Scheme: Letter Grade
Landscape pest pressure is influenced by many factors. The development of sound integrated pest management plans for landscapes focuses on identification of abiotic factors, weeds, insects, mites, pathogens and nematodes that occur on Florida landscape ornamentals, turfgrass and palms.
Prerequisite: ENY 3005 or NEM 3002 or PLP 3002C.

NEM 3002 Principles of Nematology 3 Credits
Grading Scheme: Letter Grade
Introduces nematology, including studies of morphology, life histories and control of the major nematode parasites of plants. Also includes studies of the bionomics of certain soil nematodes and nematode parasites of vertebrates and arthropods. (B)
Attributes: General Education - Biological Science

NEM 4905 Problems in Nematology 1-4 Credits
Grading Scheme: Letter Grade
Selected problems for study, research or discussion in nematology.

NEM 4911 Supervised Research in Nematology 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in nematology under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

NEM 4915 Honors Thesis Research in Nematology 0-3 Credits
Grading Scheme: S/U
Independent research in nematology leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

PMA 4570C Field Techniques in IPM 2 Credits
Grading Scheme: Letter Grade
Prerequisite: IPM 3022.

Environmental Engineering Sciences

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Courses

EES 3000L Environmental Science and Humanity Laboratory 1 Credit
Grading Scheme: Letter Grade
Field and laboratory instruction on ecosystems, environmental treatment and control systems, and methods of environmental analysis. Intended for junior level environmental science majors and minors. (B)
Attributes: General Education - Biological Science

EES 3008 Energy and Environment 3 Credits
Grading Scheme: Letter Grade
Consideration of the energy basis for man and nature including principles of energy analysis, systems ecology and public policy. (P)
Attributes: General Education - Physical Science

EES 4005C Ecological Engineering 3 Credits
Grading Scheme: Letter Grade
Application of ecological and engineering principles to natural resource management and problem solving.
Prerequisite: CHM 2046 or CHM 2096;
Corequisite: EES 4203.

EES 4050 Environmental Planning and Design 3 Credits
Grading Scheme: Letter Grade
Principles and practices of environmental planning. Planning for and designing sustainable communities and regions. Exploration of quantitative methods for the evaluation of environmental impacts and analysis of carrying capacity of economic development. Exploration of theories of spatial and temporal organization of systems of humanity and nature.

EES 4102 Wastewater Microbiology 2 Credits
Grading Scheme: Letter Grade
General concepts in microbiology and cell biology with major emphasis on the role of microorganisms in polluted environments. (B)
Prerequisite: CHM 2046.
Attributes: General Education - Biological Science

EES 4102L Environmental Biology Laboratory 1 Credit
Grading Scheme: Letter Grade
Focuses on the biota (microorganisms, algae, zooplankton, fish, and plants) found in natural (lakes and wetlands) and engineered systems, ecological engineering approach to management of surface waters and ecological modeling.

EES 4103 Applied Ecology 2 Credits
Grading Scheme: Letter Grade
Application of ecological principles to technological resource management and problem solving. (B)
Attributes: General Education - Biological Science

EES 4201 Water Chemistry 3 Credits
Grading Scheme: Letter Grade
Kinetics and equilibrium of aqueous chemistry including acid-base, complexation, precipitation and redox equilibria. (P)
Prerequisite: CHM 2046 or CHM 2096 and MAC 2311 or MAC 2233.
Attributes: General Education - Physical Science

EES 4203 Phase Partitioning in the Environment 4 Credits
Grading Scheme: Letter Grade
A study of the fate of organic pollutants in the environment through application of principles of organic chemistry and chemical thermodynamics, including phase partitioning between environmental media.
Prerequisite: CHM 2046 or CHM 2096.

EES 4316 Industrial Ecology 3 Credits
Grading Scheme: Letter Grade
Linkage of industrial activity with environmental and social sciences. Corporate environmental management and environmental ethics. Resources, laws and economics. Environmental account. Industrial products and processes and life cycle assessments. Case studies of corporate environmental policies.

EES 4401 Public Health Engineering 3 Credits
Grading Scheme: Letter Grade
Application of engineering principles to protect public health. Areas covered include water supply, waste treatment, air pollution, radiological health, occupational health, milk and food sanitation, vector control, solid wastes, and housing hygiene. (P)
Attributes: General Education - Physical Science

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGS 1005 Prep for Success 1-4 Credits
Grading Scheme: S/U
Freshman success course that includes academic preparation in calculus, chemistry, student success and technical communications. (S-U)
Prerequisite: EG student.

EMA 4535 Sustainable Nanotechnology 3 Credits
Grading Scheme: Letter Grade
Increase in production and use of engineered nanomaterials (ENMs) raises concerns on their potential impacts on the environment and human health. The sustainable development of nanotechnology requires knowledge of life cycle and environmental fate/implications of ENMs. Focuses on linkages between ENMs properties and environmental implications.
Prerequisite: CHM 2046 or CHM 2047 or CHM 2096.

ENV 3040C Computational Methods in Environmental Engineering 3 Credits
Grading Scheme: Letter Grade
Numerical modeling techniques and their application to environmental engineering. Use of personal computers and spreadsheets to solve numerical models. Solution techniques include numerical methods and their implementation using Excel and Visual Basic for Applications (VBA).
Prerequisite: MAC 2313;
Corequisite: MAP 2302.

ENV 3930 Environmental Engineering Ethics Seminar 1 Credit
Grading Scheme: Letter Grade
Intended for undergraduates majoring in environmental engineering. Lectures and discussion on ethics topics in environmental engineering sciences. (H)
Attributes: General Education - Humanities

ENV 4041C Environmental Analysis 3 Credits
Grading Scheme: Letter Grade
Theory and laboratory techniques for the analysis of air and water pollutants and basic concepts of ecosystems structure and analysis.
Prerequisite: (CHM 2046 or CHM 2096) and (STA 3032 or STA 2023).

ENV 4101 Elements of Atmospheric Pollution 3 Credits
Grading Scheme: Letter Grade
Sources, effects and regulation of air pollutants. Meteorology and dispersion of pollutants. Sampling and analysis of gaseous and particulate air pollutants. Photochemical air pollution and mobile sources. (P)
Prerequisite: EES 4203 and PHY 2049.
Attributes: General Education - Physical Science

ENV 4112C Air Sampling and Analysis 3 Credits
Grading Scheme: Letter Grade
Applies physical and chemical principles to measurement of gaseous and particulate pollutants in ambient air.
Prerequisite: ENV 4101.

ENV 4121 Air Pollution Control Design 3 Credits
Grading Scheme: Letter Grade
Principles of particulate and gaseous emission control; design and operation of particulate and gas control equipment to meet federal emission standards.
Prerequisite: ENV 4101.

ENV 4122 Design of Air Pollution Control System 3 Credits
Grading Scheme: Letter Grade
Design of a complete air pollution control system including the industrial ventilation system needed to capture, transport and condition the hot, corrosive gases from an industrial process.
Prerequisite: ENV 4101 and ENV 4121.

ENV 4212 Nuclear Power Radioactive Waste Technology 3 Credits
Grading Scheme: Letter Grade
Characterization and description of low and high level radwastes, regulatory requirements and method of treatment. Transportation, burial and surveillance of radwaste. Decommissioning of nuclear facilities.
Prerequisite: refer to the department.

ENV 4300 Solid Waste Containment Design 3 Credits
Grading Scheme: Letter Grade
Design fundamentals of solid and hazardous waste landfills, waste piles, monofills and surface impoundments. Regulations, site requirements, sizing, liner design, leachate and gas management system design, operations and closure.
Prerequisite: ENV 4351;
Corequisite: ENV 4561 or CWR 4202.

ENV 4351 Solid and Hazardous Waste Management 4 Credits
Grading Scheme: Letter Grade
Generation of solid and hazardous wastes. Collection, methods, equipment, costs and disposal. Rules, regulations and management systems for proper control of solid and hazardous wastes. Evaluation of engineering systems to minimize costs and regulatory problems. (P)
Prerequisite: EES 4201.
Attributes: General Education - Physical Science

ENV 4353 Solid Waste Systems Design 3 Credits
Grading Scheme: Letter Grade
A capstone design experience focusing on the design of solid waste management systems such as landfills, waste-to-energy facilities, compost operations, recycling facilities and hazardous waste treatment/storage/disposal facilities.
Prerequisite: ENV 4351.

ENV 4405 Nutrient Control and Water Reuse 3 Credits
Grading Scheme: Letter Grade
Biological and physicochemical processes for advanced treatment of municipal wastewater. Reuse guidelines and applications.

ENV 4411 Stormwater Control Systems 3 Credits
Grading Scheme: Letter Grade
Chemical, physical, biological and hydrologic aspects of rainfall runoff and control through unit operations and processes (UOPs). Stormwater physical and chemical loads. Interactions between hydrologic processes, water chemistry, sediment transport, infrastructure materials and UOPs for treatment and reuse.
Prerequisite: EES 4201 or instructor permission.

ENV 4430 Water Treatment Process Design 3 Credits
Grading Scheme: Letter Grade
Design of selected water treatment processes including disinfection, air stripping, adsorption, ion exchange and membrane processes.
Prerequisite: ENV 4514C and EES 4201.

ENV 4432 Potable Water System Design 3 Credits
Grading Scheme: Letter Grade
Design of conventional water treatment operations, including reactor design, coagulation, flocculation, mixing, sedimentation, filtration, softening, disinfection and sludge management.
Prerequisite: EES 4201 and ENV 4514C.

ENV 4501 Environmental Hydrology 1 3 Credits
Grading Scheme: Letter Grade
Surface and atmospheric hydrology. Hydrologic processes controlling streamflow events. Practical application to stormwater management.
Prerequisite: ENV 3040C and (STA 3032 or STA 2023) and (CWR 3201 or EGN 3353C).

ENV 4506 Environmental Hydrology 2 3 Credits
Grading Scheme: Letter Grade
Subsurface hydrology. Properties of porous media governing flow and chemical transport in the subsurface. Environmental site evaluation methods.
Prerequisite: ENV 3040C and (CWR 3201 or EGN 3353C).

ENV 4514C Water and Wastewater Treatment 3 Credits
Grading Scheme: Letter Grade
Design of water and wastewater treatment units.

ENV 4532 Wastewater System Design 3 Credits
Grading Scheme: Letter Grade
Detailed design and layout of gravity wastewater collection systems, pumping facilities, force mains, and a wastewater treatment plant. Emphasis on the preparation of design drawings and estimating costs.
Prerequisite: ENV 4514C;
Corequisite: ENV 4561 or CWR 4202.

ENV 4561 Hydraulic Systems Design 3 Credits
Grading Scheme: Letter Grade
Hydraulic design of water distribution systems, wastewater collection and disposal systems, and water and wastewater treatment plants.
Prerequisite: CWR 3201.

ENV 4601 Environmental Resources Management 2 Credits
Grading Scheme: Letter Grade
Theory and application of engineering economics and systems analysis to the design of environmental management systems.
Prerequisite: ENV 3040C.

ENV 4905 Individual Studies in Environmental Engineering Sciences 1-4 Credits
Grading Scheme: Letter Grade
Selected problems or projects in the student's major field of study.

ENV 4912 Integrated Product and Process Design 1: Environmental Engineering Sciences 3 Credits
Grading Scheme: Letter Grade
The first part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.
Prerequisite: ENV 4514C;
Corequisite: ENV 4121 or ENV 4351.

ENV 4913 Integrated Product and Process Design 2: Environmental Engineering Sciences 3 Credits
Grading Scheme: Letter Grade
The second part of the sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.
Prerequisite: ENV 4912.

ENV 4932 Special Problems in Environmental Engineering Sciences 1-4 Credits
Grading Scheme: Letter Grade
Special problems in environmental engineering science.

ENV 4949 Environmental Engineering Internship/Co-op 1-3 Credits
Grading Scheme: S/U
Practical internship/co-op work experience under approved industrial supervision. (S/U)
Prerequisite: Engineering major.

Environmental Horticulture

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Courses

BCH 3023 Elementary Organic and Biological Chemistry 3 Credits
Grading Scheme: Letter Grade
Elementary organic chemistry and biochemistry for students in the agricultural technical curricula. This is a terminal course and is not part of any sequence.
Prerequisite: CHM 2046 or CHM 2047.

EVR 3323 Introduction to Ecosystem Restoration 4 Credits
Grading Scheme: Letter Grade
Restoration theory and planning, disturbed land reclamation, woodland/wetland/river restoration, invasive species, community involvement, and monitoring, and emphasizes plant selection, establishment and maintenance.
Corequisite: BOT 2010C or BSC 2010, or instructor permission.

HOS 3305 Introduction to Plant Molecular Biology 3 Credits
Grading Scheme: Letter Grade
Introduces plant molecular biology and genetic engineering, emphasizing plant genes and genomes, transformation of plants and basic molecular biology.
Prerequisite: APB 2150 or BOT 2010C or BSC 2010.

LDE 3410C Residential Landscape Design 3 Credits
Grading Scheme: Letter Grade
Basics of residential landscape design including preparation, evaluation and implementation of simple landscape plans. Emphasizes the use of ornamental plants for functional and aesthetic improvement of home environments. Expect to attend one or two Saturday field trips.
Prerequisite: ORH 3513C.

LDE 4404C Advanced Residential Landscape Design 3 Credits
Grading Scheme: Letter Grade
Sustainable landscape design concepts and practices to create regenerative and resilient residential landscapes that demonstrate advanced design skills and knowledge.
Prerequisite: LDE 3410C or LAA 2360C.

ORH 1030 Plants, Gardening and You 1 Credit
Grading Scheme: Letter Grade
A non-majors overview of environmental horticulture that emphasizes the art and science of growing, installing and maintaining plants used to enhance and improve the human environment indoors and outdoors. Gain familiarity with the science and the industries associated with environmental horticulture.

ORH 1283 Survey of Orchids 1 Credit
Grading Scheme: Letter Grade
Overview of the complexities of the orchid family, how selected genera are produced and the potential these plants offer to commercial nursery operators and hobbyists for profit or enjoyment.

ORH 2752 Sensory Gardening 2 Credits
Grading Scheme: Letter Grade
Hands-on, multidisciplinary approach to environmental horticulture delivered through the context of the human senses. Class activities, assignments, and projects enhance awareness and understanding of how horticulture relates to the natural and built world, as well as the ways in which people perceive those worlds.

ORH 3222C Turfgrass Culture 4 Credits
Grading Scheme: Letter Grade
Comparisons of turfgrass for their landscape and recreational uses. Growth characteristics, method of propagation, and basic management requirements, including control of important pest problems, are covered.
Prerequisite: BOT 2010C or BSC 2010, and CHM 1025.

ORH 3253C Introductory Nursery Management 4 Credits
Grading Scheme: Letter Grade
Introduces the principles of planning, organizing and managing nursery operations. Emphasizes interactions between growing medium components, plant nutrition and irrigation. Nursery layout, growing structures, materials requirements and business practices are covered. Weekend field trips may be required.

ORH 3324 Palm Short Course 1 Credit
Grading Scheme: Letter Grade
Overview of how palm plants grow and how to diagnose and interpret problems with palm plants.
Prerequisite: BOT 2010C or instructor permission.

ORH 3513 Environmental Plant Identification and Use 2 Credits
Grading Scheme: Letter Grade
Identification, growth characteristics, culture and use of common landscape and greenhouse plants. Materials include trees, shrubs, vines, ground covers, lawn grasses and floriculture crops. Emphasizes temperate plants. Taught off campus.
Corequisite: ORH 3513L.

ORH 3513C Environmental Plant Identification and Use 3 Credits
Grading Scheme: Letter Grade
Combines lecture and laboratory for identification, growth characteristics, culture and use of common landscape and greenhouse plants. Materials include trees, shrubs, vines, ground covers, lawn grasses and floriculture crops. Emphasizes temperate plants. Taught on UF campus. (B)
Attributes: General Education - Biological Science

ORH 3513L Environmental Plant Identification and Use Laboratory 1 Credit
Grading Scheme: Letter Grade
Introductory, upper-division environmental laboratory course. Identify commonly used landscape plants, their use and their characteristics. Taught off campus.
Corequisite: ORH 3513.

ORH 3773 Public Gardens 2 Credits
Grading Scheme: Letter Grade
Operation and management of public gardens, including community and amusement parks, nature preserves, botanical gardens, arboreta, and zoological gardens. Explore issues relevant to principles and practices of management and psychological and sociological benefits of gardens and green spaces.
Prerequisite: ORH 3513C.

ORH 3773L Public Gardens Laboratory 2 Credits
Grading Scheme: Letter Grade
First-hand observation and evaluation of public gardens and parks to illustrate the management of such, as was discussed in ORH 3773. Consists of field trips to various botanical gardens, zoos and amusement parks.
Corequisite: ORH 3773.

ORH 3815C Florida Native Landscaping 3 Credits
Grading Scheme: Letter Grade
An upper-division, environmental horticulture course designed to introduce students with a plant science background to the nomenclature, effective utilization and design elements of plants native to Florida.
Prerequisite: ORH 3513C.

ORH 4223 Golf and Sports Turf Management 2 Credits
Grading Scheme: Letter Grade
Strategies involved in golf course and athletic field operations, including development of management cultural practices, adherence to environment regulations, personnel management and budgeting. Students may be expected to attend Saturday field trips.
Prerequisite: ORH 3222C.

ORH 4236C Ornamental Landscape Management 3 Credits
Grading Scheme: Letter Grade
Provide foundational knowledge and the skills needed to successfully manage and maintain residential and commercial landscapes. Additionally, provides students with a greater understanding of the landscape management industry and familiarizes students with sustainable landscape management techniques.
Prerequisite: ORH 3222C.

ORH 4242C Arboriculture 4 Credits
Grading Scheme: Letter Grade
Introduces urban trees: biology, management requirements, design of urban spaces for trees, site modifications and construction techniques, tree selection, installation techniques, establishing trees in adverse sites, tree pruning and related tree management practices. A written tree management plan is required.
Prerequisite: ORH 3513C.

ORH 4256 Nutritional Management of Nursery Crops 3 Credits
Grading Scheme: Letter Grade
Techniques for determining, interpreting and managing the nutritional status of container grown greenhouse and nursery crops. Includes water quality, substrate physical and chemical parameters, irrigation and fertilization practices.

ORH 4264 Greenhouse and Nursery Crop Culture 3 Credits
Grading Scheme: Letter Grade
Principles and practices used for commercial production of economically important environmental horticulture crops.

ORH 4264L Greenhouse and Nursery Crop Culture Laboratory 1 Credit
Grading Scheme: Letter Grade
Advanced hands-on laboratory growing a wide range of greenhouse plants through the application of crop cultural practices discussed in lecture.
Prerequisite: ORH 3513C;
Corequisite: ORH 4264.

ORH 4280 Orchidology 3 Credits
Grading Scheme: Letter Grade
Principles and practices involved in the production of orchid plants and flowers, including nomenclature, breeding, seed culture, harvesting and handling.
Prerequisite: BOT 2011C or BSC 2011.

ORH 4527C Florida Flora and Ecosystem Landscapes 3 Credits
Grading Scheme: Letter Grade
Introductory, upper-division environmental course on plant identification and environmental aspects of Florida's diverse ecosystems.

ORH 4804 Annual and Perennial Gardening 2 Credits
Grading Scheme: Letter Grade
Identification, selection, use and management of annuals, perennials, vines, ornamental grasses and ground covers in the landscape. Hands-on care for plants in the outdoor laboratory. Learn the irrigation, fertilization, pruning and cultural needs of these popular plants. Laboratory complements lecture.
Prerequisite: ORH 3513C and PLS 3223;
Corequisite: ORH 4804L.

ORH 4804L Annual and Perennial Gardening Laboratory 1 Credit
Grading Scheme: Letter Grade
Taxonomy of ornamental landscape annuals and perennials. Site evaluation, diagnostics, preparation, installation and maintenance of the color portion of commercial and residential landscaping.
Prerequisite: ORH 3513 and PLS 3223;
Corequisite: ORH 4804.

ORH 4848 Landscape Plant Establishment 2 Credits
Grading Scheme: Letter Grade
Techniques for selecting and installing plants, building decks and patios, walls, trellises, landscape lighting, irrigation, water gardens and other landscape elements. Prepare balance sheets, bid specifications and contracts and perform landscape installations from completed landscape plants.

ORH 4900 Supervised Extension Experience in Environmental Horticulture 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

ORH 4905 Independent Study of Environmental Horticulture 1-5 Credits
Grading Scheme: Letter Grade
Three topics for independent study: a research investigation and review of literature, drafting of proposal, conducting an experiment, collection of data, summation and interpretation of results and preparation of a report; a library or studio assignment, including analysis of several sources of information on a specific topic with a written evaluation and list of conclusions; or assist in teaching a laboratory of selected courses in environmental horticulture.

ORH 4911 Supervised Research in Environmental Horticulture 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in environmental horticulture under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

ORH 4915 Honors Thesis Research in Environmental Horticulture 0-3 Credits
Grading Scheme: S/U
Independent research in environmental horticulture leading to an honors thesis. Student are mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

ORH 4932 Special Topics in Environmental Horticulture 1-4 Credits
Grading Scheme: Letter Grade
Topics of current interest concerning environmental plants.

ORH 4933 Professional Seminar in Environmental Horticulture 1 Credit
Grading Scheme: Letter Grade
A senior-level course for students seeking career opportunities in environmental horticulture. Special emphasis is placed on the expectations of and the relevant issues facing the landscape plant production, landscape management and turfgrass industries. Field trips and attendance at selected commercial trade shows are mandatory.
Prerequisite: AEC 3030C and AEC 3033C and ORH 3513C.

ORH 4941 Practical Work Experience 1-3 Credits
Grading Scheme: S/U
Practical work must be a new experience and related to student's field of study. A written and oral report is required. (S-U)
Prerequisite: previous arrangement with advisor and department chair and dean permission.

PLS 3223 Plant Propagation 2 Credits
Grading Scheme: Letter Grade
Principles, practices and physiological aspects of the propagation of horticultural and agronomic crops by cuttage, graftage, seedage, micropropagation and other methods.
Prerequisite: BOT 2010C or BSC 2010;
Corequisite: PLS 3223L.

PLS 3223L Plant Propagation Laboratory 1 Credit
Grading Scheme: Letter Grade
Methods of propagating by seeds, bulbs, divisions, layering, cuttings, budding, grafting and micropropagation in a hands-on environment.
Prerequisite: BOT 2010C or BSC 2010.

PLS 4081 Techniques in Horticultural Therapy 3 Credits
Grading Scheme: Letter Grade
This course examines the effectiveness of horticultural therapy across a diverse range of client populations, programs, and environments, describing the physical, cognitive, and psychosocial implications. Therapeutic, vocational, and social modalities employing plants will be explored, as well as task analysis, activity analysis and tool and site adaptations.

PLS 4082 Program Management in Horticultural Therapy 3 Credits
Grading Scheme: Letter Grade
This course prepares students to develop, manage, and evaluate horticultural therapy programs in diverse environments. Strategies for program proposals and funding will be explored, along with recruitment of clients and required regulations and documentation. Staff/volunteer management will be discussed, as will plant materials, gardens, and other program resources.

PLS 4242C Micropropagation of Horticultural Crops 4 Credits
Grading Scheme: Letter Grade
Lectures and laboratory exercises emphasizing the practical application of plant tissue culture for the clonal propagation of horticultural crops. Emphasis on aseptic technique, culture methodology and micropropagation systems development.
Prerequisite: ORH 3513C recommended.

PLS 4941 Practical Work Experience 1-3 Credits
Grading Scheme: S/U
Practical, hands-on experience in the plant sciences through a paid internship in the industry. This must be a new experience and related to the student's field of study. One month of full-time work is required for each credit.
Prerequisite: junior standing and AG-PLS major.

PLS 4950 Plant Science Capstone 3 Credits
Grading Scheme: Letter Grade
Identify a problem or topic in plant sciences and develop a poster presentation about this problem or topic. This course discusses the following topics: how to develop a hypothesis, how to complete a reliable literature review, the importance of peer review and how to present results and findings.
Prerequisite: PLS 3004C and PLS 4941 One year of employment experience in plant science may be substituted for PLS 4941 with instructor permission.

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Courses

EVR 2001 Introduction to Environmental Science 3 Credits
Grading Scheme: Letter Grade
Delivered from a systems perspective, an interdisciplinary approach explores contemporary environments that are comprised of both human and non-human elements. Explores physical, chemical, and biological processes to understand pressing environmental challenges and cultural values, attitudes, and norms expressed by individuals and populations around the globe. (B) (N) (P)
Attributes: General Education - Biological Science, General Education - International, General Education - Physical Science

EVS 3000 Environmental Science 3 Credits
Grading Scheme: Letter Grade
Interactions of humans and their environments, Earth's resources, pollution and environmental management.
Prerequisite: CHM 2045 or CHM 2047 or CHM 2095.

EVS 3000L Environmental Science Laboratory 1 Credit
Grading Scheme: Letter Grade
Hands-on experience in data collection and analysis for environmental science and management.
Prerequisite: CHM 2045 or CHM 2047 or CHM 2095.

EVS 4021 Critical Thinking in Environmental Science 3 Credits
Grading Scheme: Letter Grade
Develops critical thinking and communication skills in the practicing environmental scientist. Students analyze the strengths, limitations and strategies of arguments regarding environmental science, policy and management, and craft arguments consistent with the scientific method.
Prerequisite: NE classification and senior standing.

EVS 4903 Supervised Extension Experience in Natural Resources and Environment 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic experiences in natural resources and environment under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

EVS 4905 Individual Study in Environmental Science 1-3 Credits
Grading Scheme: Letter Grade

EVS 4911 Supervised Research in Environmental Science 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in environmental science under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EVS 4915 Honors Thesis Research in Environmental Science 0-3 Credits
Grading Scheme: S/U
Independent research in environmental science leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

EVS 4932 Special Topics in Environmental Science 1-3 Credits
Grading Scheme: Letter Grade
Special topics in environmental science.
Prerequisite: sophomore standing or higher.

EVS 4949 Environmental Science Internship 1-3 Credits
Grading Scheme: S/U
Employment or volunteer work in a natural resource- or environment-related business or government agency, with job description related to field of study and written work report of each term's activities. (S-U)
Prerequisite: NE classification and permission of dean. Can be counted as an elective for the major or as a free elective.

European Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

EUS 2001 European Experience: a Humanities Perspective 3 Credits
Grading Scheme: Letter Grade
Introductory interdisciplinary study of contemporary Europe from an arts and humanities perspective. (H and N)
Attributes: General Education - Humanities, General Education - International

EUS 2003 European Experience: a Social Science Perspective 3 Credits
Grading Scheme: Letter Grade
Introductory interdisciplinary study of contemporary Europe from a social science perspective. (N and S)
Attributes: General Education - International, General Education - Social Science

EUS 3030 Greece During the Second World War 3 Credits
Grading Scheme: Letter Grade
A broad history of Greece during WWII, including the German occupation of Greece, the resistance movement in Greece, and the fate of Greece immediately following the end of WWII.
Prerequisite: Sophomore standing or higher.

EUS 3100 European Cinema 4-12 Credits
Grading Scheme: Letter Grade
A study of films of one or more of the historically important national cinemas in Europe. The course is taught in English.

EUS 3110 Culture and Society in Europe 1-4 Credits
Grading Scheme: Letter Grade
Examines central issues in one or more of the various cultures and societies in Europe.

EUS 3111 Greece and Turkey: Myths and Misconceptions 3 Credits
Grading Scheme: Letter Grade
Examines the major political, historical, and cultural aspects of the animosity between Greeks and Turks. Aims to dispel common myths and misconceptions.
Prerequisite: sophomore standing or higher.

EUS 3113 History of Turks 3 Credits
Grading Scheme: Letter Grade
Broad historical study of the Turks in world history. Emphasizes the Ottoman Turks, the Young Turks, and various upheavals in Turkey alongside social and cultural topics including gender, daily life, workers, and migrations.
Prerequisite: sophomore standing or higher or instructor approval.

EUS 3120 War and Culture in Europe 3 Credits
Grading Scheme: Letter Grade
A survey of war in the modern era, its impact on European society and the corresponding cultures of victory and defeat.

EUS 3140 Culture in Crisis: the European Avant-Garde between the Wars 3 Credits
Grading Scheme: Letter Grade
Introduces the ideology and aesthetics of the major movements of the 20th century avant-garde, focusing on developments in Paris, Berlin, Prague and Moscow. (H and N)
Attributes: General Education - Humanities, General Education - International

EUS 3142 Islam and Turkey 3 Credits
Grading Scheme: Letter Grade
Explores what Islam is and what Turks believe that it is. Also explores Islamic sources, Turkish conversions, Turkish mysticism, and Islamist politics. Explains these topics through the prism of original sources and emphasizes ways cultural forces contribute to the making of modern Islam.
Prerequisite: Sophomore standing or instructor permission.

EUS 3220 Secret Police under Communism 3 Credits
Grading Scheme: Letter Grade
Overview of the secret-police forces and the political use of terror in the Central-European countries of Germany, Hungary, Czechoslovakia, Poland, Romania, and Bulgaria between 1945 and 1990.
Prerequisite: instructor permission.

EUS 3221 Socialist Control and Resistance in Eastern Europe After 1945 3 Credits
Grading Scheme: Letter Grade
Explores the political, intellectual, social and cultural history of Eastern Europe from 1945 to 1990 and discusses ways in which the Soviet leadership manipulated the governing and legal systems of the Easter European Communist countries.
Prerequisite: EUS 2001 or EUS 2003.

EUS 3400 Migration in Europe 3 Credits
Grading Scheme: Letter Grade
Examines migration in Europe, examining topics ranging from the first modern refugee crisis in the aftermath of World War I and the Russian Revolution to contemporary debates about immigration in the European Union.
Prerequisite: instructor permission.

EUS 3900 Directed Readings in European Studies 1 Credit
Grading Scheme: Letter Grade
Rotating readings on a country, region, or current issue in Europe.
Prerequisite: Sophomore-standing or higher. Can be repeated with change in content for up to 3 credits.

EUS 3930 Undergraduate Seminar in European Studies 3 Credits
Grading Scheme: Letter Grade
Intermediate rotating topics course on various European issues. (H)
Prerequisite: department permission.
Attributes: General Education - Humanities

EUS 3937 Applied European Language 1 Credit
Grading Scheme: Letter Grade
An enhancement section designed to accompany and complement area studies courses offered in other departments. Readings and discussions are in a continental European language to enable students to develop specific vocabulary and fluency related to the content of the companion course and to provide them with an international perspective on the issues of the main course.
Prerequisite: instructor permission.

EUS 3938 European Less Commonly Taught Languages 1-4 Credits
Grading Scheme: Letter Grade
Rotating topics course to facilitate language instruction for European lesser/least commonly taught languages. Instruction is in a European language to enable students to develop relevant competencies in speaking, writing, listening, and comprehension.
Prerequisite: placement test or instructor permission.

EUS 4210 Politics and Institutions of the European Union 3 Credits
Grading Scheme: Letter Grade
History of institutions and theoretical interpretations of European Union (EU) from its origins to present, including some general European history and background of EU's member status.
Prerequisite: instructor permission.

EUS 4211 European Union and Its Enlargement 3 Credits
Grading Scheme: Letter Grade
Examines the European Union's enlargement process and politics, and on the domestic politics of the applicant countries.
Prerequisite: Sophomore standing or higher.

EUS 4212 European Economic Integration: Politics and Policy 3 Credits
Grading Scheme: Letter Grade
Examines the political economy of European Union (EU) economic integration from an interdisciplinary perspective.
Prerequisite: three EUS-prefixed credits and instructor permission.

EUS 4213 Turkey and the EU: History, Present and the Future 3 Credits
Grading Scheme: Letter Grade
The dynamics and developments in Turkish politics with regard to Turkey's EU path. Students will understand the challenges the EU faces at present with Turkey, as this countrys candidacy highlights the unresolved issues facing a more integrated EU.
Prerequisite: EUS 2001 or EUS 2003.

EUS 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Reading and discussions in advanced topics of European studies.

EUS 4911 Undergraduate Research in European Studies 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery or application.

EUS 4930 Special Topics in European Studies 3 Credits
Grading Scheme: Letter Grade
Advanced variable-topics course on European issues.
Prerequisite: three EUS-prefixed credits or instructor permission.

EUS 4932 Jean Monnet Special Seminar: the EU Today 1-3 Credits
Grading Scheme: Letter Grade
Advanced variable topics on current European Union issues from multiple disciplinary perspectives, and taught by visiting EU scholar(s).
Prerequisite: (CPO 4104 or EUS 4210) and INR 4531, or instructor permission.

EUS 4944 Seminar in European Union Studies 3 Credits
Grading Scheme: Letter Grade
Advanced topics related to the European Union.
Prerequisite: 3 credits of EUS-prefix courses or instructor permission.

EUS 4950 Overseas Study in Europe 1-6 Credits
Grading Scheme: Letter Grade
Advanced course on European issues taught during study abroad in Europe.
Prerequisite: three EUS-prefixed credits or instructor permission.

HNG 1130 Beginning Hungarian 1 5 Credits
Grading Scheme: Letter Grade
This course and its sequel, HNG 1131, constitute the basic sequence in Hungarian.

HNG 1131 Beginning Hungarian 2 5 Credits
Grading Scheme: Letter Grade
Second semester of basic sequence in Hungarian.
Prerequisite: HNG 1130 with minimum grade of C, or S, or the equivalent.

HNG 1180 Elementary Hungarian: Review and Progress 1 3 Credits
Grading Scheme: Letter Grade
Alternative to HNG 1130, for students who have some experience in Hungarian. Reviews basic grammar and improves reading, writing and listening skills.

HNG 1182 Elementary Hungarian: Review and Progress 2 3 Credits
Grading Scheme: Letter Grade
An accelerated one-semester coverage of HNG 1130 and HNG 1131 for students with some experience in Hungarian.
Prerequisite: instructor permission.

TUR 1130 Beginning Turkish 1 5 Credits
Grading Scheme: Letter Grade
This course and its sequel, TUR 1131, constitute the introductory sequence in Turkish.

TUR 1131 Beginning Turkish 2 5 Credits
Grading Scheme: Letter Grade
Second semester of the introductory sequence in Turkish.
Prerequisite: TUR 1130 with minimum grade of C.

TUR 1180 Intensive Beginning Turkish 5 Credits
Grading Scheme: Letter Grade
An intensive introduction to Turkish, using the proficiency method. This course is equivalent to, and substitute for, the UF's first-year Turkish sequence (TUR 1130 / TUR 1131).
Prerequisite: instructor permission.

TUR 2220 Intermediate Turkish 1 4 Credits
Grading Scheme: Letter Grade
Intermediate study of speaking, reading, writing and listening comprehension skills with new vocabulary and grammar.
Prerequisite: TUR 1131 or placement test.

TUR 2221 Intermediate Turkish 2 4 Credits
Grading Scheme: Letter Grade
Improves speaking, reading, writing and listening skills by building upon language principles introduced in TUR 2220.
Prerequisite: TUR 2220 or placement test.

TUR 2300 Intensive Intermediate Turkish 5 Credits
Grading Scheme: Letter Grade
Immersive intermediate study of Turkish. Equivalent to, and substitute for, the second-year sequence of TUR 2220 / TUR 2221. Classes meet daily; see the weekly schedule of topics.
Prerequisite: (TUR 1130 and TUR 1131) or instructor approval.

Family, Youth and Community Sciences

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Courses

FYC 3001 Principles of Family, Youth and Community Sciences 3 Credits
Grading Scheme: Letter Grade
Introduces the study and practice of family, youth and community sciences. Presents analytic concepts used in the study of family, youth and community sciences. Emphasizes the vulnerabilities and needs of U.S. children, youth, families and communities, and describes human services that maximize human potential and minimize personal and societal costs. Introduces the roles and skills of the human service professional. (S)
Prerequisite: PSY 2012 or SYG 2000.
Attributes: General Education - Social Science

FYC 3005 Introduction to Personal and Family Financial Planning 3 Credits
Grading Scheme: Letter Grade
Management of personal and family financial resources throughout the life span. A study of individual and family finances as related to planning, credit, saving, investment, insurance, taxes, housing costs, transportation costs, retirement, and estate planning.
Prerequisite: sophomore standing or higher.

FYC 3101 Parenting and Family Development 3 Credits
Grading Scheme: Letter Grade
Introduces the challenges and changes associated with parenthood. Includes strategies, skills and resources for understanding parenting. Also addresses diverse family types and parenting risks.
Corequisite: FYC 3001.

FYC 3112 Contemporary Family Problems and Interventions 3 Credits
Grading Scheme: Letter Grade
The major social and family problems contemporary families face, including poverty, violence and care of dependent elders. Emphasizes family strengths and resiliency as well as social programs that help families withstand and overcome difficulties. Emphasizes the role of society, race and gender in constructing family problems.
Prerequisite: FYC 3001, SYG 2430 or FYC 3101, and SYG 2000, all with minimum grades of C; FYC majors only.

FYC 3115 Human Services 3 Credits
Grading Scheme: Letter Grade
In-depth look at human services that assist children and families, with focus on income support, child protection, adoption and family support programs offered through human services agencies. Emphasizes professional development of helping skills for working directly with children and families.
Prerequisite: (SYG 2000 or PSY 2012) and junior standing or higher.

FYC 3201 Foundations of Youth Development 3 Credits
Grading Scheme: Letter Grade
Introduces youth development principles utilizing an ecological framework, including major theories relevant to domains of development. Then, major physical, cognitive, social and emotional changes experienced by youth in middle childhood through adolescence are explored. Application of youth development principles in context of family, school and community are also emphasized.
Corequisite: FYC 3001.

FYC 3401 Introduction to Social and Economic Perspectives on the Community 3 Credits
Grading Scheme: Letter Grade
Introduces the study of community in American society. Addresses the theoretical underpinnings of the concept of community and explores changes that have affected urban and rural communities. (S)
Corequisite: FYC 3001.
Attributes: General Education - Social Science

FYC 3521 Community Food Systems 3 Credits
Grading Scheme: Letter Grade
Examines theory and practice in food and agriculture from a social science perspective within the context of sustainable community food systems.
Prerequisite: junior standing or higher.

FYC 4003 Personal and Family Financial Counseling 3 Credits
Grading Scheme: Letter Grade
Examines family economics and resource management issues and impact on the well-being of family across the major transitions of the family life-cycle. The complex process of financial decision-making and the role of the financial counselor are addressed.
Prerequisite: FYC 3005.

FYC 4004 Personal and Family Tax Planning 3 Credits
Grading Scheme: Letter Grade
Principles, current law and practice of income taxation and its impact on financial planning for individuals, couples and families in their roles as investors, employees and business owners.
Prerequisite: (FYC 4003 or ACG 2021) and STA 2023 and (AEB 2014 or ECO 2013 or ECO 2023).

FYC 4102 Personal and Family Retirement and Estate Planning 3 Credits
Grading Scheme: Letter Grade
Provides knowledge of public and private retirement plans, including Social Security, Medicare, Medicaid, defined benefit, defined contribution plans and their regulatory provisions. Estate planning focuses on the efficient conservation and transfer of wealth through trusts, wills, probate and charitable giving consistent with the client's goals.
Prerequisite: (FYC 4003 or ACG 2021) and STA 2023 and (AEB 2014 or ECO 2013 or ECO 2023).

FYC 4114 Ethical Issues in Family, Youth and Community Sciences 3 Credits
Grading Scheme: Letter Grade
Ethics and ethical decision-making by professionals working individuals and their families is addressed. Emphasizes ethical issues related to family relationships and family life.
Prerequisite: junior standing or higher.

FYC 4126 Urban and Rural America in Transition 3 Credits
Grading Scheme: Letter Grade
Communities in America are being confronted with a number of significant changes. Such shifts are not felt in the same manner across various regions or communities in the U.S. Explore current and emerging issues that have differential consequences for urban and rural areas in this country.
Prerequisite: SYG 2000, FYC 3001 and FYC 3401 with minimum grades of C; FYC majors only.

FYC 4202 Youth and Family Relations 3 Credits
Grading Scheme: Letter Grade
Youth within the family system. Reviews basic theory and research on youth development and how it is intertwined with family development, family processes and extended family systems. Students also work with youth and their families.
Prerequisite: FYC 3001.

FYC 4212 Contemporary Youth Problems and Solutions 3 Credits
Grading Scheme: Letter Grade
Youth development and its ecology, emphasizing the challenges and issues facing adolescents/ youth, and the creation of communities that foster positive youth development and resiliency. Includes theoretical, methodological, empirical and practical issues regarding youth development issues and solutions. Also examines the ecology of youth development, focusing on the dynamics of interactions and reciprocal relationships between youth and various systems of the environment.
Prerequisite: (FYC 3001 and FYC 3201 and SYG 2000 with minimum grades of C) and Family, Youth and Community Sciences major.

FYC 4301 Engaging Communities for Decision Making and Action 3 Credits
Grading Scheme: Letter Grade
Survey citizens and analyze data of scientific, technological, environmental, and societal issues at the community level. Implement and evaluate methodologically correct research that aids in the resolution of issues and improves decision-making skills as they relate to community issues.

FYC 4408 Organizational Leadership for Nonprofits 3 Credits
Grading Scheme: Letter Grade
Examines the challenges for nonprofit leaders, incorporating leadership theories as they apply to these organizations. Equips students with the leadership skills needed to lead nonprofit organizations.
Prerequisite: junior standing or higher or instructor permission.

FYC 4409 Working with Nonprofit Organizations in Community Settings 3 Credits
Grading Scheme: Letter Grade
Overview of nonprofit organizations, their functions and purpose, how they are organized and operate, and the basic structure of an incorporated nonprofit.
Prerequisite: junior or senior standing.

FYC 4410 Fund Raising for Community Nonprofit Organizations 3 Credits
Grading Scheme: Letter Grade
Contemporary fund raising practices in the nonprofit sector applied to community organizations.
Prerequisite: FYC 4409.

FYC 4426 Risk Management in Nonprofit Organizations 3 Credits
Grading Scheme: Letter Grade
Foundation in the theory, principles and techniques associated with risk management. Topics include the nature and purpose of risk management; the general risk management exposures facing nonprofit organizations; and risk financing strategies for nonprofits.
Prerequisite: FYC 4409.

FYC 4427 Non-Governmental Organizations 3 Credits
Grading Scheme: Letter Grade
Explores the nature, role, operations and impacts of non-governmental organizations (NGOs) across the globe. Provides a foundation in understanding NGOs within the geographical, social, political and economic realities under which they operate. Lectures, reading assignments, student presentations and a group project are designed for a better understanding of NGO operations.
Prerequisite: junior or senior standing.

FYC 4428 Human Resource Management for Nonprofits 3 Credits
Grading Scheme: Letter Grade
Presents the various HRM activities such as recruitment, testing, selection, performance management, labor relations, volunteer management, compensation and training, for more effective management. Experiential exercises are used to simulate personnel/HRM tasks and issues that managers face in nonprofit organizations, such as conflict and leadership.
Prerequisite: junior or senior standing.

FYC 4503 Methods of Family Life Education 3 Credits
Grading Scheme: Letter Grade
Educational techniques for family life educators and human science providers who help individuals and families address key issues of development and human relationships at each stage of the life cycle.
Prerequisite: (FYC 3101 and FYC 3201) or SYG 2430.

FYC 4622 Planning and Evaluating Family, Youth and Community Science Programs 3 Credits
Grading Scheme: Letter Grade
Basic philosophy, theory and process of planning and evaluating family, youth and community programs.

FYC 4660 Family Policy 3 Credits
Grading Scheme: Letter Grade
Understanding how professionals can influence family policy and the impact of government policies on families.
Prerequisite: FYC 3101 or SYG 2430.

FYC 4801 Applied Social Research Methods 4 Credits
Grading Scheme: Letter Grade
Understand and apply the principles of social science research methods. Learn a variety of research methods and have hands-on experience with data collection and analysis.
Prerequisite: FYC 3001 with minimum grade of C or STA 2023.

FYC 4803 Advanced Social Research Methods 3 Credits
Grading Scheme: Letter Grade
Design, implement, and interpret social research as part of an advanced team. Collaboratively conduct original social research under faculty supervision and produce a manuscript suitable for submission to a scholarly outlet.
Prerequisite: FYC 4801 and Instructor approval.

FYC 4900 Supervised Extension Experience in Family, Youth and Community Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

FYC 4905 Individual Study in Family, Youth and Community Sciences 1-3 Credits
Grading Scheme: Letter Grade
Selected topics and problems related to family, youth and community sciences and the student's specific area of interest.

FYC 4911 Supervised Research in Family, Youth and Community Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in family, youth and community sciences under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

FYC 4915 Honors Thesis Research in Family, Youth and Community Sciences 0-3 Credits
Grading Scheme: S/U
Independent research in family, youth and community sciences leading to an honors thesis. Students are mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

FYC 4930 Personal and Family Financial Planning Capstone 3 Credits
Grading Scheme: Letter Grade
Critical thinking and decision making about personal and family financial management in the context of the financial planning process. Analyze and prioritize goals and make recommendations for a client in household accounting, taxes, investments, risk management, retirement planning and estate planning.
Prerequisite: FYC 4004, FYC 4007 and FYC 4102.

FYC 4931 Family, Youth, and Community Sciences Professional Development 3 Credits
Grading Scheme: Letter Grade
Provides a professional development experience for students in FYCS including: search for employment during their final semesters of undergraduate study and information regarding graduate education and research possibilities. Emphasis is placed on career placement, graduate education, practicum readiness, professional business etiquette and elements for a successful transition to the workforce.
Prerequisite: FYC 3001 and (FYC 3101 or SYG 2430) and FYC 3201 and FYC 3401.

FYC 4932 Special Topics in Family, Youth, and Community Science 1-3 Credits
Grading Scheme: Letter Grade
Special topics in Family, Youth, and Community Science.
Prerequisite: Sophomore standing.

FYC 4941 Practicum in Family, Youth and Community Sciences 3 Credits
Grading Scheme: S/U
Work experience in a human/community services agency and a professional seminar to discuss student progress, workplace experiences and issues, and critical topics in professional development.
Prerequisite: FYC 3001 and (FYC 3101 or SYG 2430) and FYC 3201 and FYC 3401 and FYC 4622 and FYC 4801 and FYC 4931.

Film and Media Studies

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Courses

ANT 3390 Visual Anthropology 3 Credits
Grading Scheme: Letter Grade
Uses photography and film as tools and products of social science. Ways of describing, analyzing and presenting behavior and cultural ideas through visual means. Projects and laboratory work with visual anthropology. (WR)
Prerequisite: basic knowledge of photography or instructor permission.
Attributes: Satisfies 6000 Words of Writing Requirement

ARH 4471 Late Twentieth Century Art 3 Credits
Grading Scheme: Letter Grade
Continuation of ARH 4453. Main movements in international art since about 1970 to the present. Focuses on the theory and various expressions of Post-Modernism. (H and N)
Prerequisite: ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ARH 4710 History of Photography 3 Credits
Grading Scheme: Letter Grade
Surveys major technical, stylistic, and critical directions in photography from the 19th century to the present. (H and N)
Prerequisite: ARH 2051 and (art major or art history minor).
Attributes: General Education - Humanities, General Education - International

ART 3842C Performance and Installation 3 Credits
Grading Scheme: Letter Grade
Explores the complex relationships among object, body, site, space, and architecture using various visual media in the creation of installation and performance art.
Prerequisite: ART 2701C or ART 2702C.

ART 3959C Video Art 3 Credits
Grading Scheme: Letter Grade
Explores video with an emphasis on editing and building a personal vocabulary through the electronic image.
Prerequisite: DIG 2131C and DIG 2282C and digital media major of junior standing or higher.

ART 4630C Video Art: Advanced Projects 3 Credits
Grading Scheme: Letter Grade
Focuses on the completion of larger scale student-directed projects with a special emphasis on pre-production planning and advanced editing techniques.
Prerequisite: ART 3959C.

ART 4631C Computer Art: Advanced Projects 6 Credits
Grading Scheme: Letter Grade
Advanced work in computer-mediated art, including animation and interactive works in both the physical and virtual domain, with special emphasis on completion of larger scale student-directed projects.

EME 4401 Integrating Technology in the Elementary Curriculum 3 Credits
Grading Scheme: Letter Grade
Prepares elementary majors to effectively use technology in teaching and learning.
Prerequisite: Formal admission to the upper division Unified Elementary ProTeach program.

ENG 3113 The Movies as Narrative Art 4 Credits
Grading Scheme: Letter Grade
Examines movies as a mode of storytelling by emphasizing the difference between verbal and visual narration, and relation to contemporary thought and values.

ENG 3115 Introduction to Film: Criticism and Theory 4 Credits
Grading Scheme: Letter Grade
Introduces the principal theoretical and critical issues raised by the first century of the cinema.

ENG 3121 History of Film, Part 1 4 Credits
Grading Scheme: Letter Grade
History of film from its beginnings to the introduction of sound.

ENG 3122 History of Film, Part 2 4 Credits
Grading Scheme: Letter Grade
History of film from the introduction of sound to 1960.

ENG 3125 History of Film, Part 3 4 Credits
Grading Scheme: Letter Grade
History of film from 1960 to the present.

ENG 4130 Race and Ethnicity in Film 4 Credits
Grading Scheme: Letter Grade
Critical and historical study of films and videos by and about people of color in the Americas, Africa, Australia and Europe.

ENG 4133 Film Studies 4 Credits
Grading Scheme: Letter Grade
Variable topics provide in-depth study of film genres, notable film directors, and other significant topics on subjects related to film.

ENG 4134 Women and Film 4 Credits
Grading Scheme: Letter Grade
Studies the roles and function of women in mainstream and alternative cinema, including study of feminist film criticism and theories of gender.

ENG 4135 National Cinemas 4 Credits
Grading Scheme: Letter Grade
Variable topics study of the films of historically important national cinemas, such as American, French, German, Italian, Russian, Japanese.

ENG 4136 Film and Video Production 4 Credits
Grading Scheme: Letter Grade
Seminar on the independent and experimental uses of small-format film and video production.

ENG 4139 Television and Electronic Culture 4 Credits
Grading Scheme: Letter Grade
Explores the development of new modes of thought, forms of art, popular culture, and social practices based on the electronic technology of video and computers.

FRT 3520 French Cinema 4-8 Credits
Grading Scheme: Letter Grade
Critical, theoretical and historical study of French cinema. Topics will be announced. Content may include key directors, 1930s cinema, nostalgia and masculinity in 1980s films, World War II cinema, and Colonial and Postcolonial cinema. Open to French majors and non-majors and is taught in English. (H and N)
Attributes: General Education - Humanities, General Education - International

IDS 4906 Interdisciplinary Thesis Research 1-12 Credits
Grading Scheme: Letter Grade
Research accommodation for thesis. (WR)
Corequisite: refer to the department.
Attributes: Satisfies 6000 Words of Writing Requirement

ITT 3521 Italian Cinema 4 Credits
Grading Scheme: Letter Grade
Critical and historical study of Italian film and directors. Topics may vary. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 3391 Introduction to Japanese Film 4 Credits
Grading Scheme: Letter Grade
Introduces the formal and historical features of Japanese film that have given it a unique position in film history. Emphasizes formal and critical analysis as well as the intellectual stakes of studying non-western film.

LIT 3362 The Age of the Avant-Garde 3 Credits
Grading Scheme: Letter Grade
Examines the revolutionary experimentalist aspects of modern and contemporary culture, such as cubism, surrealism, structuralism, and conceptualism.

PGY 3410C Photography: Color 3 Credits
Grading Scheme: Letter Grade
Consideration of the use and technique of color photography. Covers cameras, films, and darkroom developing techniques.
Prerequisite: PGY 2441C, PGY 2442C, and junior-level art major.

PGY 3444C Photography: Black and White 3 Credits
Grading Scheme: Letter Grade
Fundamentals of photography, operation of the camera and developing, printing, and enlarging. Principles of photography as a means of personal expression.
Prerequisite: PGY 2441C, PGY 2442C, and junior-level art major.

PGY 3820C Photography: Digital 3 Credits
Grading Scheme: Letter Grade
Studio methods and techniques in creating still images using electronic digital technology.
Prerequisite: DIG 2131C, PGY 2441C, PGY 2442C, and junior-level art major.

PGY 4420C Advanced Photography 6 Credits
Grading Scheme: Letter Grade
Use of the camera as a medium of individual creative expression. Experimental projects in black and white and color photography.
Prerequisite: PGY 3410C, PGY 3421C, PGY 3444C, PGY 3820C, and senior-level art major.

TPA 3217 Introduction to Lighting and Sound 4 Credits
Grading Scheme: Letter Grade
Introduces electricity and technical skills basic to lighting and sound technology.

TPP 3103 Acting 2: Analysis and Application 3 Credits
Grading Scheme: Letter Grade
Experimentation with scripted material: scene study, analysis, audition and performance.
Prerequisite: refer to the department.

TPP 3311 Directing 3 Credits
Grading Scheme: Letter Grade
Practical application of theoretical concepts of directing applied to scene study.
Prerequisite: refer to the department.

Finance, Insurance, and Real Estate

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Courses

FIN 2951 Special Projects 1-3 Credits
Grading Scheme: S/U
Projects related to finance as approved by the college. (S-U)

FIN 3403 Business Finance 4 Credits
Grading Scheme: Letter Grade
The acquisition and management of funds by business. A minimum grade of B is required in FIN 3403 to register for required finance major courses.
Prerequisite: (ACG 2021 and junior standing) or (ACG 2021 and ECO 2023 and sophomore standing).

FIN 4243 Debt and Money Markets 4 Credits
Grading Scheme: Letter Grade
Examines financial markets, the institutions and instruments associated with debt funds, and the determinants of the general level and structure of interest rates.
Prerequisite: (FIN 3403 with a minimum grade of B) and (ACG 2021 and ACG 2071 with minimum grades of C).

FIN 4403 Honors Finance 2 Credits
Grading Scheme: Letter Grade
Variable topics providing opportunity for in-depth study of topics not offered in other courses.
Prerequisite: FIN 3403 with grade of A.

FIN 4414 Financial Management 4 Credits
Grading Scheme: Letter Grade
An integrative examination of theory and practice of managerial finance, financing and investing decisions as affected by risk, timing and financial markets.
Prerequisite: FIN 4243 and FIN 4504.

FIN 4453 Financial Modeling 2 Credits
Grading Scheme: Letter Grade
The course demonstrates how intricate financial spreadsheet models can be applied to aid in value creating activities for businesses such as valuation, additional funds needed analysis and additional applications that may include activities such as leasing and merger analysis.
Prerequisite: FIN 3403 with a minimum grade of B or an equivalent course as approved by the Department of Finance.

FIN 4504 Equity and Capital Markets 4 Credits
Grading Scheme: Letter Grade
Examines financial markets, the institutions and instruments associated with equity funds, the mechanics and mathematics of stock prices, security analysis, and the factors influencing stock values.
Prerequisite: (FIN 3403 with a minimum grade of B) and (ACG 2021 and ACG 2071 with minimum grades of C).

FIN 4533 Financial Derivatives 2 Credits
Grading Scheme: Letter Grade
The course defines the main kind of derivatives, shows how they are used to achieve various hedging and speculating objectives, introduces a framework for pricing derivatives and studies several applications of derivative-pricing techniques outside derivative markets.
Prerequisite: FIN 4504 or FIN 4243

FIN 4905 Independent Research 1-4 Credits
Grading Scheme: Letter Grade
A written report or reports will be required.
Prerequisite: senior standing, previous work in the area of research and department permission.

FIN 4934 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Special topics in entrepreneurship related fields of study.

FIN 4956 International Studies in Finance 1-4 Credits
Grading Scheme: Letter Grade
This course provides a mechanism by which coursework taken at a foreign university as part of an approved study abroad program can be recorded on the transcript and counted toward UF graduation.

FIN 4970 Honors Thesis 1 Credit
Grading Scheme: S/U
A thesis is required for award of magna cum laude or summa cum laude designation. To qualify for the thesis option, students normally will have completed 90 semester credits of coursework (exceptions may be made by the honors coordinator) and must have at least the 3.6 GPA required for high honors at the time they enroll. The thesis will be reviewed by at least one faculty member chosen by the honors coordinator from the student's major department. (S-U)
Prerequisite: 90 credits earned and a 3.6 UF GPA.

REE 2951 Special Projects 1-3 Credits
Grading Scheme: S/U
Projects related to business real estate as approved by the college. (S-U)

REE 3043 Real Estate Analysis 4 Credits
Grading Scheme: Letter Grade
Principles of real estate decision making within the context of our economic, social, legal and political-government systems.
Prerequisite: ACG 2021 or AEB 3133 or AEB 3144 or BCN 4753.

REE 4303 Real Estate Investment Decision Making 4 Credits
Grading Scheme: Letter Grade
Explores real estate investment and the demands, skills and challenges of decision-making for those who make such investments.
Prerequisite: REE 3043 with a minimum grade of C.

REE 4905 Independent Research 1-4 Credits
Grading Scheme: Letter Grade
A written report or reports will be required.
Prerequisite: senior standing, previous work in the area selected for research and instructor and department chair permissions.

REE 4970 Honors Thesis 1 Credit
Grading Scheme: S/U
A thesis is required for award of magna cum laude or summa cum laude designation. To qualify for the thesis option, students normally will have completed 90 semester credits of coursework (exceptions may be made by the honors coordinator) and must have at least the 3.6 GPA required for high honors at the time they enroll. The thesis will be reviewed by at least one faculty member chosen by the honors coordinator from the student's major department. (S-U)
Prerequisite: 90 credits earned and a 3.6 UF GPA.

Fine Arts

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

HUM 2510 Design for Understanding the Visual and Performing Arts 3 Credits
Grading Scheme: Letter Grade
Analysis of the basic elements and concepts of the visual arts, music, theater, and the dance to establish a fundamental base from which decisions can be made about what one sees, hears, and feels. Understanding, appreciation, and literacy in the arts are developed and are strengthened by participating in arts experiences. (H) (WR)
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

HUM 2511 Basic Fundamentals and Skills in the Visual Arts and Music 3 Credits
Grading Scheme: Letter Grade
Fundamentals of visual arts and of music needed by the classroom teacher for teaching art and music in the elementary school. Students with sufficient background may exempt the course by examination.

HUM 2592 Introduction to the Arts in Medicine in a Global Context 3 Credits
Grading Scheme: Letter Grade
Explores the field of arts in medicine in a global context, focusing on the many ways that the arts can be used to enhance health and wellbeing in healthcare or community settings and the relationship of culture to healing practices, systems, and health literacy in various regions of the world.

HUM 2930 Special Topics in Fine Arts 1-3 Credits
Grading Scheme: Letter Grade
Variable topics course exploring the interaction between various arts and between the arts and other disciplines.

HUM 3940L Arts in Medicine Practicum 1 2 Credits
Grading Scheme: Letter Grade
Provides basic to intermediate-level mentored practice in the arts in healthcare in a clinical or community environment. Emphasizes a primary discipline while deepening the understanding of the practice through documentation self-assessment and a culminating paper.
Prerequisite: (HUM 2592 or completion of Arts in Healthcare Summer Intensive) and instructor permission.

HUM 4594 Music in Medicine Capstone 1 Credit
Grading Scheme: Letter Grade
Through literature review and a culminating research paper, provides an opportunity to research a topic in the field of music in medicine relevant to educational and professional goals.
Prerequisite: HUM 2592

HUM 4912 Fine Arts Undergraduate Research 0-3 Credits
Grading Scheme: S/U
Provides an opportunity for firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or creative application, depending on the topic. Projects are supervised by an advising faculty member or a grad student working under faculty supervision. (S-U)

HUM 4930 Special Topics in Fine Arts 1-3 Credits
Grading Scheme: Letter Grade
An upper division general fine arts special/rotating topics on various subjects in the arts.
Prerequisite: junior standing or higher.

HUM 4941L Arts in Medicine Practicum 2 3 Credits
Grading Scheme: Letter Grade
Provides an individualized and in-depth practice of the arts in healthcare in a clinical or community environment. Emphasizes a primary discipline while deepening the understanding of the practice through documentation reflection and a culminating paper.
Prerequisite: HUM 3940L and instructor permission.

HUM 4956 Overseas Studies in Fine and Performing Arts 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study-abroad program can be recorded on the transcript and counted toward UF graduation.
Prerequisite: undergraduate advisor permission.

Fire and Emergency Services

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

FES 3004 Political and Legal Foundations of Fire Protection 3 Credits
Grading Scheme: Letter Grade
Examines the legal aspects of fire service and the political and social impacts of legal issues; reviews the American legal system and covers legal and political issues involving employment and personnel matters, administration and operations, and planning and code enforcement with regard to the fire service.
Prerequisite: junior standing or higher.

FES 3015 Principles of Fire and Emergency Services Management 3 Credits
Grading Scheme: Letter Grade
Fundamentals of management underlying the solution of problems of organization and operation of fire and emergency services agencies. (S) (WR)
Prerequisite: junior standing or higher.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

FES 3033 Fire and Emergency Services Labor Issues 3 Credits
Grading Scheme: Letter Grade
Determinants of demand for labor and labor supply. Labor market equilibrium and changes in the equilibrium due to changes in unionization, public policies and technology. Study of the effects of skill, job amenities and discrimination on wage differentials. A review of PERC, FSLA and unions is included.
Prerequisite: junior standing or higher.

FES 3153 FES Communication and Informational Technology 3 Credits
Grading Scheme: Letter Grade
Communications systems used in fire and emergency services such as high frequency voice/data, Internets and Intranets, satellite communications, GPS and GIS. An introduction, examination, equipment assessment, implementation program and maintenance management module are provided for each system covered.
Prerequisite: junior standing or higher.

FES 3223 Foundations of EMS 3 Credits
Grading Scheme: Letter Grade
Covers the design and operation of EMS systems, service delivery, and echelons of care. The history of EMS, interface of public and private organizations and review of the various personnel who comprise these systems, will be examined in relation to their impact on the health care delivery system.
Prerequisite: junior standing or higher.

FES 3227 Ambulance Operations 3 Credits
Grading Scheme: Letter Grade
Overview of the application of management principles to the provision of medical transport services. Includes an analysis of the economic, geographic, temporal, and clinical characteristics of ambulance demand, the key processes for providing transport services, and an evaluation of industry best practices.
Prerequisite: junior standing or higher.

FES 3233 EMS Safety and Risk Management 3 Credits
Grading Scheme: Letter Grade
Introduces the risk management principles of an EMS agency. Emphasizes safety from the perspective of the field provider.
Prerequisite: junior standing or higher.

FES 3263 Public Safety Educator 3 Credits
Grading Scheme: Letter Grade
Introduces the EMS professional to the education system as it relates to EMS education. Explores issues in curriculum development, teaching, program direction, and development.
Prerequisite: junior or senior standing.

FES 3284 Management of Emergency Medical Services 3 Credits
Grading Scheme: Letter Grade
Personnel and resource management issues in providing emergency medical services function. Quality assurance, utilization review techniques, and practices and techniques for delivery of services and distribution of resources are included.
Prerequisite: junior standing.

FES 3285 Advanced Leadership Issues in Emergency Medical Services 3 Credits
Grading Scheme: Letter Grade
Organizational development issues in providing emergency medical services function in the fire-based, hospital-based and third-service environments. Establishing and directing emergency medical services' work teams is also covered.
Prerequisite: junior standing.

FES 3533 Community Risk Reduction for Emergency Services 3 Credits
Grading Scheme: Letter Grade
Provides a theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk reduction, and a methodology for the development of a comprehensive community risk reduction plan.
Prerequisite: junior or senior standing.

FES 3720 Strategic Planning for FES 3 Credits
Grading Scheme: Letter Grade
Provides the conceptual framework for the development of a strategic plan for emergency management, fire protection, and emergency medical service. Also provides guidance through the process of the needs, resources, and capabilities of the organization and how to establish a plan to achieve improved performance.
Prerequisite: junior standing.

FES 3753 Fire and Emergency Services Financial Management 3 Credits
Grading Scheme: Letter Grade
Planning, developing, presenting, funding and implementing a budget for a fire and emergency services agency. Additional topics include special taxing districts, bond issues and fund-raising campaigns.
Prerequisite: junior standing.

FES 3755 Fire and Emergency Services Capital Equipment and Facilities 3 Credits
Grading Scheme: Letter Grade
Procedures for the acquisition, utilization and disposition of fire and emergency services apparatus and station facilities. Specification and purchasing of apparatus are included. An examination of facility siting, building design and land acquisition and financing is conducted. Additional material addresses special capital purchases such as communications, safety and operational equipment.
Prerequisite: FES 3753 and junior standing.

FES 3780 Analytical Approaches to Fire Protection 3 Credits
Grading Scheme: Letter Grade
Examines the tools and techniques of rational decision making in fire and emergency services agencies, including data collection, statistics, probability, decision analysis, utility modeling, resource allocation, and cost benefit analysis.
Prerequisite: junior or senior standing.

FES 3782 Applications of Fire Research 3 Credits
Grading Scheme: Letter Grade
Examines methodology for analyzing fire-related research; provides a framework for independent research in fire dynamics, fire test standards, fire safety, fire modeling, structural fire safety, life-safety, firefighter safety, automatic detection and suppression, risk analysis and loss control, applied research, and fire-related research trends.
Prerequisite: junior or senior standing.

FES 3803 Multi-Agency Incident Command 3 Credits
Grading Scheme: Letter Grade
Managing complex incidents that may require response from fire-rescue, emergency medical services, law enforcement and/or other public safety sectors. Use of the incident management system is emphasized.
Prerequisite: junior standing.

FES 3815 Command and Control at Catastrophic Fire-Rescue Incidents 3 Credits
Grading Scheme: Letter Grade
Incident command at multiple-alarm incidents, emphasizing rapid fireground decision-making, safety, personnel accountability and communications. Settings for scenarios include multi-family occupancies, hotels, high-rises, healthcare facilities and large retail centers.
Prerequisite: junior standing.

FES 3822 Disaster Policy in Emergency Management 3 Credits
Grading Scheme: Letter Grade
Describes the functional demands that emergency managers should be aware of in crafting effective emergency management plans, policies, and programs. Addresses how public policy choices impact emergency planning and the consequences of a disaster event. Emphasizes the emergency planning process.
Prerequisite: junior or senior standing.

FES 3823 Fire and Emergency Services Integrated Operations 3 Credits
Grading Scheme: Letter Grade
The broad issues involved in comprehensive emergency management at the local level. The emergency management cycle of preparedness, mitigation, response and recovery is emphasized as are the legal, operational and administrative aspects of state and federal interface.
Prerequisite: junior standing.

FES 4003 Fire and Emergency Services Administration 3 Credits
Grading Scheme: Letter Grade
Demonstrates the importance of persuasion and influence, budgeting, anticipation of challenges and change, and management tools for analyzing and solving problems; explores how the leadership of a fire and emergency services department develops internal and external cooperation to achieve the department's mission.
Prerequisite: junior or senior standing.

FES 4014 Foundations of Emergency Management 3 Credits
Grading Scheme: Letter Grade
Examines the history and the principles establishing Emergency Management in the United States. Describes the "Four Phases of Emergency Management," relates processes to codes and laws governing Emergency Management, and examines Emergency Management and the terrorist threat.
Prerequisite: junior or senior standing.

FES 4023 Fire and Emergency Services Ethical Practices and Leadership 3 Credits
Grading Scheme: Letter Grade
The role of agency leadership and its impact on the continuing professionalization of the fire and emergency services. Examines traditional and evolving definitions, practices and skills in leadership behavior, including discussions of power, influence, ethics and organizational behavior.
Prerequisite: senior standing.

FES 4034 Regulatory Issues in Fire and Emergency Services 3 Credits
Grading Scheme: Letter Grade
Introduces safety, health and environmental regulations on the state and federal levels that impact the delivery of fire and emergency services. OSHA, EPA and NFPA regulatory requirements are introduced along with methods and techniques to implement compliance programs.
Prerequisite: FES 4003 and senior standing.

FES 4045 Fire and Emergency Services Human Resource Management 3 Credits
Grading Scheme: Letter Grade
Major human resource management functional areas for fire and emergency services agencies. Topics include organizational employment planning, employment regulation, job analysis, performance assessment, recruitment and regulation, job analysis, performance assessment, recruitment and selection, training and development, employee/labor relations and compensation.
Prerequisite: FES 3015 and senior standing.

FES 4055 Fire and Emergency Services Public Relations 3 Credits
Grading Scheme: Letter Grade
Implementation of principles and methods in advocating factual claims and policy proposals: prepositional analysis, evidence as demonstration, effective reasoning processes and ethics in controversy. Also focuses on public speaking and presentations, especially in the areas of technology, defense of budgets and political leadership.
Prerequisite: senior standing.

FES 4224 Management of Mass Casualty Incidents 3 Credits
Grading Scheme: Letter Grade
Covers systematic approaches to triage, treatment and transport in response to large-scale emergency medical services incidents. Resource planning and coordination with hospital systems is also emphasized.
Prerequisite: senior standing.

FES 4226 EMS Special Operations 3 Credits
Grading Scheme: Letter Grade
Discusses the various special roles in which EMS personnel may serve, such as hazardous materials, water rescue, and technical rescue.
Prerequisite: junior or senior standing.

FES 4234 EMS Community Risk Reduction 3 Credits
Grading Scheme: Letter Grade
Provides a theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk reduction, and a methodology for the development of a comprehensive community risk reduction plan.
Prerequisite: junior or senior standing.

FES 4244 Legal, Political, and Regulatory in EMS 3 Credits
Grading Scheme: Letter Grade
Introduces the EMS professional to the legal aspects of Emergency Medical Services. Explores issues in malpractice, consent and refusal of treatment, OSHA, employment issues, and risk management. EMS students gain insights into the legal liabilities in Emergency Medical Services.
Prerequisite: junior or senior standing.

FES 4274 Quality Management and Research in Emergency Services 3 Credits
Grading Scheme: Letter Grade
Introduces the EMS professional to benefits of quality improvement, the history of quality in EMS, measuring quality, and the uses of quality in EMS.
Prerequisite: junior or senior standing.

FES 4585 Management of Fire Prevention Programs 3 Credits
Grading Scheme: Letter Grade
Planning, promoting and executing fire prevention functions, including an emphasis on legal responsibilities, needs assessments, negotiation and planning activities.
Prerequisite: senior standing.

FES 4685 Fire Investigation and Analysis 3 Credits
Grading Scheme: Letter Grade
Examines the technical, investigative, legal, and social aspects of arson, including principles of incendiary fire analysis and detection, environmental and psychological factors of arson, legal considerations, intervention, and mitigation strategies.
Prerequisite: senior standing.

FES 4804 Disaster Recovery and Mitigation 3 Credits
Grading Scheme: Letter Grade
Provides the opportunity to understand real world disaster response efforts through academic study and interactive applied activities. Topics include the Incident Command System (ICS), Emergency Operations Center (EOC) management, Resource Management (RM), and Command-Communications-Coordination (C3).
Prerequisite: junior or senior standing.

FES 4820 Critical Incident Management for Emergency Managers 3 Credits
Grading Scheme: Letter Grade
Examines disaster planning and emergency management. Focuses on the four phases of planning, mitigation, response, and preparedness. Includes FEMA and federal government NIMS ICS-700 and ICS-800 certifications.
Prerequisite: junior or senior standing.

FES 4825 Disaster Planning and Control 3 Credits
Grading Scheme: Letter Grade
Examines concepts and principles of community risk assessment, planning and response to fires and natural and human-caused disasters, including National Incident Management System--Incident Command Systems (NIMS ICS), mutual aid and automatic response, training and preparedness, communications, civil disturbances, terrorist threats/incidents, hazardous materials planning, mass casualty incidents, earthquake preparedness, and disaster mitigation and recovery.
Prerequisite: FES 3823 and senior standing.

FES 4835 Natural Disaster Phenomena in Florida 3 Credits
Grading Scheme: Letter Grade
Natural disasters prevalent in Florida: past, present, and future, including hurricanes, flooding, freezes, and agricultural emergencies. Also addresses planning, operations, mitigation, recovery, and evaluation concerns.
Prerequisite: junior or senior standing.

FES 4884 Introduction to Terrorism in Emergency Management 3 Credits
Grading Scheme: Letter Grade
Introduces the fundamental concepts, theories, principles, and practice of terrorism and terrorist events.
Prerequisite: junior or senior standing.

FES 4905 Special Studies in Fire and Emergency Services 1-3 Credits
Grading Scheme: Letter Grade
Special areas of study in fire and emergency services adjusted to the needs of individual students.
Prerequisite: instructor permission.

FES 4935 Current Issues in Fire and Emergency Services 3 Credits
Grading Scheme: Letter Grade
Information and direction for fire service administrators on current legislative, legal, labor and/or technology concerns facing fire and emergency services agencies.
Prerequisite: senior standing.

FFP 4507 Management of Fire-Related Human Behavior 3 Credits
Grading Scheme: Letter Grade
Focuses on human behavior in emergencies; examines research on human behavior, systems models, life-safety education, and building design, exploring a best-practice building life-safety system in terms of psychology and sociology joined with engineering and education to produce best outcomes of human survivability in emergencies.
Prerequisite: Junior or Senior standing.

First Year Florida

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

SLS 1102 Enhancing the Freshman Experience 1 Credit
Grading Scheme: Letter Grade
Explores the purpose and philosophy of higher education in the US; the history and traditions of the University of Florida; the potential roles of a student within the university and other learning environments; and the resources, behaviors and skills necessary for successful higher learning.

Fisheries and Aquatic Sciences

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

FAS 2024 Sustainable Fisheries 3 Credits
Grading Scheme: Letter Grade
Fish biology, ecology, and habitats relevant to fisheries on both a global and regional (Florida) scale. Follows the fisheries occurring from cold mountain rivers to the depths of the oceans, with special topics (e.g., artificial reefs, fisheries bycatch, and aquaculture). Intended for non-science and science majors.
Attributes: General Education - Biological Science

FAS 4202C Biology of Fishes 4 Credits
Grading Scheme: Letter Grade
The general biology of fishes, with emphasis on trends in their evolution, integrative and sensory biology, physiology, feeding ecology, reproduction, growth and population dynamics as they relate to fisheries.
Prerequisite: BSC 2011 and BSC 2011L.

FAS 4270 Marine Ecological Processes 3 Credits
Grading Scheme: Letter Grade
The ecology of marine organisms and habitats with focus on how general ecological principles, and those unique to the marine environment, drive patterns and processes.
Prerequisite: BSC 2010 and BSC 2011 or equivalent.

FAS 4305C Introduction to Fishery Science 3 Credits
Grading Scheme: Letter Grade
Principles of fish management in freshwater and marine systems. Includes field and laboratory techniques for aquatic habitat and fishery resource assessment, aquaculture practices and consideration of contemporary issues pertinent to sport and commercial uses of renewable fisheries resources.
Prerequisite: refer to the department.

FAS 4405 Aquariums, Water and Aquaculture 3 Credits
Grading Scheme: Letter Grade
Culture methods of fish and shellfish, species selection, biological and environmental principles, case histories and future trends.
Prerequisite: BSC 2010 and BSC 2010L, or instructor permission.

FAS 4900 Supervised Extension Experience in Fisheries and Aquatic Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic Extension experiences in fisheries and aquatic sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

FAS 4905 Individual Study 1-4 Credits
Grading Scheme: Letter Grade
Individual study of a selected topic in fisheries and aquatic sciences as contracted with the instructor at the start of the term.
Prerequisite: instructor permission.

FAS 4911 Supervised Research in Fisheries and Aquatic Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in fisheries and aquatic sciences under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

FAS 4915 Honors Thesis Research in Fisheries and Aquatic Sciences 0-3 Credits
Grading Scheme: S/U
Independent research in fisheries and aquatic sciences leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

FAS 4932 Topics in Fisheries and Aquatic Sciences 1-4 Credits
Grading Scheme: Letter Grade
Selected topics in fisheries biology, aquaculture and associated aquatic sciences not offered in other courses.
Prerequisite: instructor permission.

FAS 4933 Seminar in Fisheries and Aquatic Sciences 1 Credit
Grading Scheme: Letter Grade
Introduces undergraduate students to contemporary topics in the field of fisheries and aquatic sciences, and develops their listening and writing skills.

PEN 1136 Openwater Scuba Diving 2 Credits
Grading Scheme: Letter Grade
Beginning scuba diving including compass navigation, openwater diving environment, dive preparation and five openwater dives. Payment of required additional course fees and successful completion results in national certification as Openwater Scuba Diver.
Prerequisite: swim test.

PEN 2138C Advanced Scuba Diving 3 Credits
Grading Scheme: Letter Grade
Course provides advanced SCUBA training. Topics include physics, physiology, decompression, and oceanography/ecology. Pool sessions cover rescue, double cylinders, full facemasks, night/limited visibility techniques, search, recovery, salvage techniques, and underwater task loading. Completion results in NAUI certification in Advanced SCUBA, Enriched Air Nitrox, SCUBA Rescue, First Aid, CPR, and Oxygen Provider.
Prerequisite: PEN 1136 or equivalent.

PLS 4613 Aquatic Weed Control 3 Credits
Grading Scheme: Letter Grade
Florida's aquatic weed problems and methods of chemical, biological, mechanical and physical weed control. Topics include plant biology/ecology, herbicide residue, lake reclamation, fish-plant interactions and laws regulating aquatic weed control.
Prerequisite: refer to the department.

Food and Resource Economics

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AEB 2014 Economic Issues, Food and You 3 Credits
Grading Scheme: Letter Grade
The role of agriculture and economics: the how's and why's of their influence on food prices and the world food situation, the environment, natural resources and government policy; and economic issues, including inflation and money. (S)
Prerequisite: not for FRE majors.
Attributes: General Education - Social Science

AEB 2451 Economics of Resource Use 3 Credits
Grading Scheme: Letter Grade
Introduces how economists value the environment and regulations designed to protect our natural resources from overuse and degradation. (S)
Attributes: General Education - Social Science

AEB 3103 Principles of Food and Resource Economics 4 Credits
Grading Scheme: Letter Grade
Introduces the field of food and resource economics, the principles of economics as applied to agriculture, and the economic problems of the agricultural industry and the individual farmer. (S)
Prerequisite: MAC 2233/MAC 2311 or higher.
Attributes: General Education - Social Science

AEB 3114L Introduction to Agricultural Computer Applications 1 Credit
Grading Scheme: Letter Grade
Introduces computer application with specific emphasis on applications used in agricultural businesses. Specific applications include spreadsheets, databases, word processing and DOS.

AEB 3122 Financial Planning for Agribusiness 3 Credits
Grading Scheme: Letter Grade
Introduces basic financial and managerial decision-making for small agribusinesses.

AEB 3133 Principles of Agribusiness Management 3 Credits
Grading Scheme: Letter Grade
Introduces agribusiness management principles, application of economic principles, budgeting techniques, and principles of strategy in agribusiness from management in the United States, particularly Florida. Emphasizes the financial and tax management strategies and the requirements imposed on agribusiness management by local, state and federal government regulatory agencies.

AEB 3144 Introduction to Agricultural Finance 3 Credits
Grading Scheme: Letter Grade
Basic financial statements, investment frameworks and theories of financial intermediation as applied to agricultural firms, along with an overview of financial institutions that provide capital to agriculture.
Prerequisite: AEB 3122 or ACG 2071.

AEB 3281 Agricultural Macroeconomics 3 Credits
Grading Scheme: Letter Grade
Introduces the world economy from a macroeconomic perspective that focuses on the links that arise from international trade and capital flows in the agricultural sector.
Prerequisite: ECO 2013.

AEB 3300 Agricultural and Food Marketing 3 Credits
Grading Scheme: Letter Grade
Examines agricultural and food marketing from a system and individual firm perspective. Explores problems and issues associated with marketing functions and institutions at the industry level and with objectives and strategies of farms and agribusiness firms that market agricultural commodities and food products.
Prerequisite: AEB 3103 or AEB 2014 or ECO 2023 or ECO 2013.

AEB 3315 Futures Markets and Risk Management in Agriculture 3 Credits
Grading Scheme: Letter Grade
Basic elements and principles of agricultural commodity marketing with emphasis on the futures industry. Includes use of futures markets for speculating and risk management for agriculture and finance. Participation in a computerized futures trading game is required.

AEB 3341 Selling Strategically 3 Credits
Grading Scheme: Letter Grade
Introduces professional selling techniques for all products with special emphasis given to food and agricultural products, technical systems and services.

AEB 3450 Introduction to Natural Resource and Environmental Economics 3 Credits
Grading Scheme: Letter Grade
Introduces natural and environmental resource economics. Emphasizes understanding economic concepts such as resource scarcity, market failure, externality, property rights and common property resources and their application to studies of forest, land, water, energy and coastal resources.
Prerequisite: AEB 3103 or ECO 2023. Credit cannot be received for both AEB 3450 and ECP 3302.

AEB 3510 Quantitative Methods in Food and Resource Economics 3 Credits
Grading Scheme: Letter Grade
Develops understanding of finite mathematical tools used in economics and business decision making. Topics include linear equations, matrix algebra and calculus. Lectures and problems show how these tools are used to examine economic, financial and managerial problems.
Prerequisite: (AEB 3103 or ECO 2023) and (MAC 2233 or MAC 2311).

AEB 3550 Agricultural Data Analysis in Food and Resource Economics 3 Credits
Grading Scheme: Letter Grade
Introduces analysis of agricultural data. Incorporates statistical and agricultural economic theory into the analysis of agricultural problems. Knowledge in use of spreadsheets is assumed.
Prerequisite: AEB 3103 and AEB 3510 and STA 2023.

AEB 3671 Comparative World Agriculture 3 Credits
Grading Scheme: Letter Grade
Studies the business and economic situations of the food and agriculture sector around the world. Focuses on the historical development, the current situation and the future outlook of the food and agriculture sector. (N and S)
Attributes: General Education - International, General Education - Social Science

AEB 3935 Food and Resource Economics Seminar 1 Credit
Grading Scheme: Letter Grade
Introduces the Department of Food and Resource Economics and career opportunities for its graduates.

AEB 4085 Agricultural Risk Management and the Law 3 Credits
Grading Scheme: Letter Grade
Develops an understanding of the basic concepts of common and statutory law. Identifies and addresses current legal issues of importance at the personal and professional levels. Develops an understanding of risk and the solutions for managing risk and relates the concepts of risk management and law in limiting exposure to legal liability.

AEB 4123 Agricultural and Natural Resource Law 3 Credits
Grading Scheme: Letter Grade
Legal aspects of agricultural rights, responsibilities and problems. Topics include agricultural estate and income taxation, zoning and land use planning, Capper-Volstead Act, international agricultural agreements, agricultural labor and consumer protection.

AEB 4126 Agricultural and Natural Resource Ethics 3 Credits
Grading Scheme: Letter Grade
Examines the political, economic, environmental and ethical value issues involved in agricultural practices and policies, including agricultural research. (H or S) (WR)
Prerequisite: junior or senior standing.
Attributes: General Education - Humanities, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

AEB 4138 Advanced Agribusiness Management 3 Credits
Grading Scheme: Letter Grade
Integration of finance and management to solve problems faced by agricultural firms and agribusinesses. In addition to lectures, students will work in small groups to identify and to analyze case studies from agricultural and rural businesses.
Prerequisite: AEB 3103 and AEB 3144 and agribusiness major.

AEB 4242 International Trade Policy in Agriculture 3 Credits
Grading Scheme: Letter Grade
Explores the role of international trade policy in agriculture and examines the effects of trade policies on domestic and international prices, consumption, production, trade and government revenues. Addresses impact of current trade issues on the agricultural sector. (S)
Prerequisite: AEB 3103 or ECO 2023.
Attributes: General Education - Social Science

AEB 4282 International Humanitarian Assistance 3 Credits
Grading Scheme: Letter Grade
Emergency assistance to developing countries to minimize losses and affect recovery. Includes legal/ethical bases; program designs promoting recovery, rather than dependence; cultural issues, including gender; and technical aspects. (N and S)
Attributes: General Education - International, General Education - Social Science

AEB 4283 International Development Policy 3 Credits
Grading Scheme: Letter Grade
Studies how factors such as poverty, population, technology, resources, trade and the environment affect man's effort to develop. The roles of the public and private sectors are discussed as well as the process of policy formulation and implementation. Emphasizes the agricultural sector and its role in process of economic development, especially in countries where problems of hunger, demographic pressure and poverty are pervasive. (S)
Prerequisite: AEB 3103 or AEB 2014 or ECO 2013 or ECO 2023.
Attributes: General Education - Social Science

AEB 4306 Agricultural Marketing Strategies 2 3 Credits
Grading Scheme: Letter Grade
The strategic process of formulating and implementing marketing strategies unique to the agriculture industry.
Prerequisite: instructor permission.

AEB 4309 Food Wholesaling and Retail Marketing 3 Credits
Grading Scheme: Letter Grade
Food industry trends, issues and opportunities that exist in the U.S. and the world. Guest lecturers and recent trade publications provide students with a command of wholesaling and retail food management.

AEB 4325 Contemporary Issues in Agribusiness Management 3 Credits
Grading Scheme: Letter Grade
A capstone course utilizing economic concepts to address the interaction between the political process that legislates domestic agricultural, environmental and international trade policy, micro and macro economic principles, private business decisions taken by firms in response to public policies, and ethical considerations in developing and implementing public policy.
Corequisite: AEB 4138 or AEB 4342.

AEB 4334 Agricultural Price Analysis and Consumer Behavior 3 Credits
Grading Scheme: Letter Grade
Quantitative measurement of factors affecting agricultural and resource prices; seasonal and cyclical fluctuations; index measures of price and quantity variables; theory and application of consumer behavior principles.
Prerequisite: AEB 3103 and AEB 3550.

AEB 4342 Agribusiness and Food Marketing Management 3 Credits
Grading Scheme: Letter Grade
Application of marketing and management principles to agribusiness and food marketing problems faced by managers. Emphasis on case problems, group projects, oral presentations and written assignments.
Prerequisite: AEB 3133 and FRE major in the agribusiness specialization.

AEB 4343 International Agribusiness Marketing 3 Credits
Grading Scheme: Letter Grade
Problems, issues, regulations, policies and procedures unique to the global agribusiness marketing of perishable and storable agricultural commodities and food products. Combines firm-level agribusiness marketing concepts with international agribusiness marketing and export management applications. (S)
Prerequisite: AEB 3300.
Attributes: General Education - Social Science

AEB 4380 Agricultural Marketing Strategies 3 Credits
Grading Scheme: Letter Grade
The decision-making activities necessary to launch a new agricultural product successfully. The marketing plan development for this course follows the guidelines of the National Agri-Marketing Association Marketing Competition.
Prerequisite: instructor permission.

AEB 4424 Human Resources Management in Agribusiness 3 Credits
Grading Scheme: Letter Grade
Issues involved in the strategic and effective management of human resources in agribusiness. Human resource management concepts and techniques designed to improve agribusiness organizational teamwork, productivity, performance and enterprise success. Course explores the unique aspects of labor management and includes application through use of case problems, triad and video techniques.

AEB 4673 International Agricultural Trade 3 Credits
Grading Scheme: Letter Grade
Examines the economic forces associated with trade in food and agricultural products between the U.S. and other countries. Applies economics principles and analytical techniques to international agricultural trade and multi-national markets.
Prerequisite: AEB 3103 and AEB 3510.

AEB 4900 Supervised Extension Experience in Food and Resource Economics 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under faculty member supervision. Projects may involve program planning, development, implementation, and evaluation. (S-U)

AEB 4905 Special Problems in Food and Resource Economics 1-3 Credits
Grading Scheme: Letter Grade
Individual study in selected problem areas of interest to the student and agreeable to the instructor.
Prerequisite: instructor permission.

AEB 4911 Supervised Research in Food and Resource Economics 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in food and resource economics under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

AEB 4915 Honors Thesis Research in Food and Resource Economics 0-3 Credits
Grading Scheme: S/U
Independent research in food and resource economics leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

AEB 4931 Special Topics in Food and Resource Economics 1-3 Credits
Grading Scheme: Letter Grade
Lectures, conferences or laboratory covering specially selected topics in food and resource economics.
Prerequisite: instructor permission.

AEB 4941 Full-Time Practical Work Experience in Food and Resource Economics 1-3 Credits
Grading Scheme: S/U
Practical work must be a new experience and related to the field of study. (S-U)
Prerequisite: previous arrangement with advisor and undergraduate coordinator and dean permissions.

AEB 4951 Survey of Agricultural Economics 1 Credit
Grading Scheme: Letter Grade
Trains students to think on their feet with respect to topics in the agricultural economics discipline. While individual courses tend to focus on a particular set of skills, this course enhances the student's ability to access the range of skills they acquired in past courses.
Prerequisite: instructor permission.

ALS 4932 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Variable subjects provide content for the study of agricultural topics not offered in other courses.

Food Science and Human Nutrition

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

BCH 3025 Fundamentals of Biochemistry 4 Credits
Grading Scheme: Letter Grade
Introducing biochemistry with emphasis on intermediary metabolism.
Prerequisite: CHM 2200 and CHM 2200L (or preferably CHM 2210, CHM 2211 and CHM 2211L) with minimum grades of C.

DIE 3310 Community Nutrition 2 Credits
Grading Scheme: Letter Grade
Role of nutrition in promoting, maintaining and improving health in the community. Investigation of traditional aspects of the emerging health delivery systems, as well as entrepreneurial ventures in wellness. Study the financial, legislative, political, sociological, and scientific aspects of public and community health.
Prerequisite: (HUN 2201 and Dietetics major) or instructor permission.

DIE 4125 Food Systems Management 3 Credits
Grading Scheme: Letter Grade
The management of human resources, food, equipment and facilities to provide a quality product and service to customers in a food service operation.
Prerequisite: FOS 3042.

DIE 4125L Food Systems Management Laboratory 2 Credits
Grading Scheme: Letter Grade
The application of principles of food systems management, including purchasing, production, service, sanitation and safety.
Corequisite: DIE 4125; DIE majors only.

DIE 4245 Medical Nutrition Therapy Applications: Part 1 3 Credits
Grading Scheme: Letter Grade
Part one of a 2-semester sequence focusing on application of the nutrition care planning process. Includes development of nutrition assessment skills and formulation of nutrition care plans for simulated patients, including those requiring enternal and parenteral nutrition.
Prerequisite: HUN 2201 and Dietetics major.
Corequisite: HUN 4445 and (APK 2105C or PCB 4723C) and (BCH 3025 or BCH 4024).

DIE 4246 Medical Nutrition Therapy Applications: Part 2 3 Credits
Grading Scheme: Letter Grade
Part two of a 2-semester sequence that focuses on attainment of knowledge to make nutrition diagnoses, to develop and implement effective nutrition intervention strategies and to identify appropriate monitoring and evaluation plans for patients with common chronic diseases and disorders.
Prerequisite: HUN 4445 and DIE 4245 and (APK 2105C or PCB 4723C).
Corequisite: HUN 4446.

DIE 4436 Nutrition Counseling and Communication 2 Credits
Grading Scheme: Letter Grade
Application of principles of group dynamics and group and interpersonal counseling skills in dietetics practice settings. Provides hands-on experiences in counseling and in oral and written communication.
Prerequisite: HUN 2201 and HUN 3403 and Dietetic major.

DIE 4505 Dietetics Seminar 1 Credit
Grading Scheme: Letter Grade
Capstone course for dietetic majors; focuses on professional issues, including ethics, legislative issues, advocating and marketing the profession.
Prerequisite: Agricultural and Life Sciences senior and Dietetic major.

DIE 4543 Supervised Extension Experience in Dietetics 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in dietetics under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

DIE 4905 Problems in Dietetics 1-5 Credits
Grading Scheme: Letter Grade
Individual research work in various phases of dietetics.

DIE 4911 Supervised Research in Dietetics 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in dietetics under faculty member supervision. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

DIE 4915 Honors Thesis Research in Dietetics 0-3 Credits
Grading Scheme: S/U
Independent research in dietetics leading to an honors thesis. Student is mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

DIE 4934 Topics in Dietetics 1-3 Credits
Grading Scheme: Letter Grade
Lectures, conference, laboratory or clinical experience covering selected topics in dietetics.

FOS 2001 Man's Food 3 Credits
Grading Scheme: Letter Grade
Discussion of current nutrition and food science topics concerning nutritional quality and safety of foods as they relate to one's health. For science and non-science students. (B)
Attributes: General Education - Biological Science

FOS 3042 Introductory Food Science 3 Credits
Grading Scheme: Letter Grade
Commodities selected for human consumption and the methods used by food technologists to prolong shelf life, retard spoilage and ensure quality. Principles upon which the various processing methodologies are based. (B)
Attributes: General Education - Biological Science

FOS 4202 Food Safety and Sanitation 2 Credits
Grading Scheme: Letter Grade
Lectures, discussions, demonstrations and field trips concerning microbial, chemical and biological safety of food, principles of sanitation for the food processing, food service and retail food industries.
Prerequisite: MCB 2000 and MCB 2000L, or the equivalent.

FOS 4222 Food Microbiology 3-4 Credits
Grading Scheme: Letter Grade
Sources and types of biological contamination and its control during harvesting, processing and storage of foods; food fermentation; biotechnology sanitation; HACCP methods used to examine foods for microbial content.
Prerequisite: MCB 2000 or MCB 2010 or MCB 2013 or MCB 3020 or MCB 3023.

FOS 4222L Food Microbiology Laboratory 2 Credits
Grading Scheme: Letter Grade
Methods to enumerate microorganisms in foods.
Prerequisite: MCB 2000L or MCB 3020L; concurrent or previous registration in FOS 4222.

FOS 4310L Experimental Foods Laboratory 1 Credit
Grading Scheme: Letter Grade
Demonstrations and illustrations of the chemical and physical properties of foods. Shows the effects of processing, ingredients and storage on food quality and nutrient retention.
Corequisite: FOS 4311.

FOS 4311 Food Chemistry 3 Credits
Grading Scheme: Letter Grade
Relationship of composition to the properties of foods and the changes which occur during processing, storage and utilization.
Prerequisite: CHM 2200 or (CHM 2210 and CHM 2211).
Corequisite: FOS 4310L or FOS 4311L; biochemistry recommended but not required.

FOS 4311L Food Chemistry Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory covering the relationship of composition to the properties of foods and the changes which occur during processing, storage and utilization.
Prerequisite: CHM 2200L or CHM 2211L;
Corequisite: FOS 4311.

FOS 4318 Flavor Chemistry 3 Credits
Grading Scheme: Letter Grade
Learn how flavor chemicals impact sensory perception of food; discuss flavor compounds used in foods, their production, isolation, analysis, and specific attributes.
Prerequisite: (CHM 2045 and CHM 2046) and CHM 2200 or (CHM 2210 and CHM 2211), all with grades of C.

FOS 4321C Food Analysis 4 Credits
Grading Scheme: Letter Grade
Principles and practice of physical and chemical methods for analyzing foods. (P)
Prerequisite: (CHM 2200 and CHM 2200L) or (CHM 2210 and CHM 2211 and CHM 2211L).
Attributes: General Education - Physical Science

FOS 4427C Principles of Food Processing 4 Credits
Grading Scheme: Letter Grade
Principles of processing foods: cooling, freezing, heating, dehydrating, concentrating, irradiating, fermenting and the use of chemicals.
Prerequisite: AOM 4062 or FOS 4222 or FOS 4311.

FOS 4435C Food Product Development 3 Credits
Grading Scheme: Letter Grade
Capstone course integrating food science and related disciplines to value-added food products using traditional and novel commodity, ingredient and process combinations. Class projects emphasize technology, safety, health/nutrition, legal, quality and economic/marketing considerations.
Prerequisite: 4AG - FOS majors only.

FOS 4522C Seafood Technology 3 Credits
Grading Scheme: Letter Grade
Processing principles and methods of preparation of various seafood products and control of product quality.
Prerequisite: CHM 2045.

FOS 4722C Quality Control in Food Systems 3 Credits
Grading Scheme: Letter Grade
Measurement and control of the major quality parameters of foods, including sensory, color and texture.
Prerequisite: STA 2023.

FOS 4731 Government Regulations and the Food Industry 2 Credits
Grading Scheme: Letter Grade
Government laws regulating food wholesomeness; food handling, processing and distribution under sanitary conditions; food ingredients and labeling of food products.
Prerequisite: FOS 3042 or Food Science major or instructor permission.

FOS 4905 Special Problems in Food Science 1-5 Credits
Grading Scheme: Letter Grade
Individual research work in various phases of food science.

FOS 4906 Supervised Extension Experience in Food Science 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

FOS 4911 Supervised Research in Food Science 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in food science under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

FOS 4915 Honors Thesis Research in Food Science 0-3 Credits
Grading Scheme: S/U
Independent research in food science leading to an honors thesis. Student is mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

FOS 4936 Topics in Food Science 1-3 Credits
Grading Scheme: Letter Grade
Lectures, conferences or laboratory covering specially selected topics in food science.

FOS 4941 Full-Time Practical Work Experience in Food Science 1-3 Credits
Grading Scheme: S/U
One-term employment in industry, including extra work according to a pre-approved outline. Practical work under industrial supervision as set forth in College of Agricultural and Life Sciences regulations. (S-U)
Prerequisite: previous arrangement with advisor and department permission; FSHN majors only.

HUN 2201 Fundamentals of Human Nutrition 3 Credits
Grading Scheme: Letter Grade
The properties, functions, requirements, interrelationships and metabolism of nutrients. (B)
Prerequisite: BSC 2007 or BSC 2005 or BSC 2010 or CHM 1025 or CHM 2045 or APK 2100C or APK 2105C or CHM 1030.
Attributes: General Education - Biological Science

HUN 3403 Nutrition through the Life Cycle 2 Credits
Grading Scheme: Letter Grade
Nutritional needs and concerns throughout stages of the life cycle including pregnancy and lactation, infancy, adolescence, adulthood, and aging; socioeconomic, cultural and psychological influences on food and nutrition behavior.
Prerequisite: HUN 2201.

HUN 4221 Nutrition and Metabolism 3 Credits
Grading Scheme: Letter Grade
Metabolic relationships of nutrients with emphasis upon their functions in biochemical and physiological processes as well as variations in requirements in response to stress. Meets requirements of the American Dietetic Association.
Prerequisite: (BCH 3025 or BCH 4024) and (PCB 4723C or APK 2105C) and (HUN 3403 and HUN 4445).

HUN 4445 Nutrition and Disease: Part 1 2 Credits
Grading Scheme: Letter Grade
Part one of a two-semester sequence that focuses on the biochemical and pathophysiological bases of disease/conditions that require specialized nutrition support/medical nutrition therapy.
Prerequisite: HUN 2201 and CHM 2211;
Corequisite: APK 2105C or PCB 4723C, BCH 3025 or BCH 4024.

HUN 4446 Nutrition and Disease: Part 2 3 Credits
Grading Scheme: Letter Grade
Part two of the sequence that focuses on the biochemical and pathophysiological bases of disease/conditions that require specialized nutrition support/medical nutrition therapy.
Prerequisite: HUN 4445 and (BCH 3025 or BCH 4024) and (PCB 4723C or APK 2105C).
Corequisite: DIE 4246.

HUN 4813C Laboratory Techniques in Molecular Nutrition 3 Credits
Grading Scheme: Letter Grade
Laboratory techniques relevant to the study of nutrition, ranging from biochemistry, molecular biology, genomics and bioinformatics.
Prerequisite: CHM 2211 and CHM 2211L;
Corequisite: BCH 3025 or BCH 4024.

HUN 4903 Supervised Extension Experience in Nutritional Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

HUN 4905 Special Problems in Human Nutrition 1-5 Credits
Grading Scheme: Letter Grade
Individual research work in various phases of nutrition.

HUN 4911 Supervised Research in Nutritional Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in nutritional sciences under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

HUN 4915 Honors Thesis Research in Nutritional Sciences 0-3 Credits
Grading Scheme: S/U
Independent research in nutritional sciences leading to an honors thesis. Student is mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

HUN 4936 Topics in Human Nutrition 1-3 Credits
Grading Scheme: Letter Grade
Lectures or laboratory covering selected topics in human nutrition.
Prerequisite: instructor permission.

HUN 4941 Full Time Practical Work Experience in Human Nutrition 1-3 Credits
Grading Scheme: S/U
One-term employment in industry or the health field according to a pre-approved outline. Practical work under supervision as set forth in College of Agricultural and Life Sciences regulations. (S-U)
Prerequisite: previous arrangement with advisor and department permission; FSHN majors only.

Forest Resources and Conservation

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

FNR 3131C Dendrology/Forest Plants 3 Credits
Grading Scheme: Letter Grade
Provides a basic understanding of the classification, nomenclature, morphology, ecological relationships, associations and uses of the major forest tree and shrub species of North America.
Prerequisite: refer to the department.

FNR 3410C Natural Resource Sampling 3 Credits
Grading Scheme: Letter Grade
Basic concepts of sampling. Design of cost-effective sample surveys. Sampling methodology applicable to natural resources: simple random, stratified, systematic, multi-phase and multi-stage. Cluster sampling, ratio, regression and difference estimation. Line transects. Computer simulation of sampling methods. Introduces remote sensing, geographic information and global positioning systems.
Prerequisite: STA 2023.

FNR 4070C Environmental Education Program Development 3 Credits
Grading Scheme: Letter Grade
Applies a comprehensive approach to program development, from needs assessment to evaluation, to non-formal environmental opportunities. Analyzes existing and developing programs and emphasizes the role of participation and indicators in meeting environmental objectives. Requires field trips.
Prerequisite: junior standing or higher.

FNR 4343C Forest Water Resources 3 Credits
Grading Scheme: Letter Grade
Watershed hydrology, balances and models. Water quality parameters, processes and loading. Ecosystem and watershed functions. Watershed resources management.
Prerequisite: SWS 3022 and SWS 3022L, or the equivalent.

FNR 4345 Models for Water Resources 1 Credit
Grading Scheme: Letter Grade
Examination of stand and watershed hydrologic models, model development, calibration, scenario testing and interaction with actual hydrologic models.
Corequisite: FNR 4343C.

FNR 4461 Spatial Models and Decision Analysis 3 Credits
Grading Scheme: Letter Grade
Concepts and applications of environmental modeling in a spatial context using descriptive and prescriptive tools and spatial reasoning.
Prerequisite: FOR 3434C or the equivalent, basic statistics or instructor permission.

FNR 4623C Integrated Natural Resource Management 3 Credits
Grading Scheme: Letter Grade
An integrative approach to the study of forest resource management for the production of multiple products, such as timber, recreation, wildlife, rangeland, utilizing the case study approach.
Prerequisite: refer to the department.

FNR 4624C Field Operations for Management of Ecosystems 3 Credits
Grading Scheme: Letter Grade
Covers the common operations utilized by natural resource managers to manipulate ecosystems to reach a goal (commodity production, ecological enhancement, aesthetics, recreational opportunities, etc.). Addresses the use of heavy machinery, herbicides and prescribed fire; and the regulations, contracting markets and safety concerns governing each.
Prerequisite: FOR 3153C and FNR 3410C or WIS 4954C or FOR 3162C.

FNR 4660 Natural Resource Policy and Economics 3 Credits
Grading Scheme: Letter Grade
Factors in evolution of forest, range, and wildlife natural resources administration and policies in the United States; policy components; policy formation implementation, change processes; and economic criteria for evaluating the effectiveness of policies.
Prerequisite: junior standing or higher.

FOR 2662 Forests for the Future 3 Credits
Grading Scheme: Letter Grade
Examines current environmental issues that impact individual, community and institutional decisions about North American forest resources. Each issue is reviewed with a framework that uses human behavior, policy options and media messages. Students are expected to understand the issues and to discuss and analyze the major social and ecological variables affecting each issue. (S) (WR)
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

FOR 3004 Forests, Conservation and People 3 Credits
Grading Scheme: Letter Grade
A general background course for non-FRC students interested in management, use and conservation of forest resources. Topics include resource description, historical perspectives, current issues, forest biology and management principles. (B)
Attributes: General Education - Biological Science

FOR 3153C Forest Ecology 3 Credits
Grading Scheme: Letter Grade
Ecological principles and their application to the management of forests; major sections include tree population, forest community dynamics and ecosystem processes. (B)
Attributes: General Education - Biological Science

FOR 3162C Silviculture 4 Credits
Grading Scheme: Letter Grade
Principles governing establishment, treatment and control of forest stands; natural and artificial regeneration systems; intermediate cuttings and cultural operations.
Prerequisite: FOR 3153C.

FOR 3200C Foundations of Natural Resources and Conservation 3 Credits
Grading Scheme: Letter Grade
Overview of current and historical views of forest conservation, utilization and policy; principles of forest biology, ecology, Silviculture and management relevant to future courses and careers; basic field research, communications and computer skills.
Prerequisite: 3FY or instructor permission.

FOR 3202 Society and Natural Resources 3 Credits
Grading Scheme: Letter Grade
Local-to-global and individual-to-institutional perspectives on natural resource values, sustainability, diversity, and social change with consideration of potential paths for working with complex human and natural resource systems. (S)
Attributes: General Education - Social Science

FOR 3214 Fire Ecology and Management 2 Credits
Grading Scheme: Letter Grade
Detailed study of the role, occurrence and function of wildland fires in natural ecosystems and the use of prescribed burning to simulate those functions. Key topics include factors that influence natural fires, effects of fires on the environment, management and control of wildfires, and the use of prescribed burning. Students will plan and conduct several prescribed burns.
Prerequisite: FOR 3153C or PCB 3034C or PCB 4043C, or the equivalent.

FOR 3214L Fire Ecology and Management Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory to assess, design and participate in the application of prescribed fire in forest ecosystem research and management.
Corequisite: FOR 3214 encouraged strongly.

FOR 3342C Tree Biology 3 Credits
Grading Scheme: Letter Grade
Studies tree structure and function with relationships to forest environments and forestry practices.
Prerequisite: BOT 2010C or BSC 2011.

FOR 3430C Forest Mensuration 3 Credits
Grading Scheme: Letter Grade
Forest resource measurements, log and tree content estimation, forest inventory techniques, and stand growth and yield.
Prerequisite: FNR 3410C or the equivalent.

FOR 3434C Forest Resources Information Systems 3 Credits
Grading Scheme: Letter Grade
Introduces the concepts, principles and applications of geographic information systems, remote sensing and global positioning systems that emphasize applications in forest resource management.

FOR 4020 Seminar in Contemporary Issues in Forest Resources and Conservation 1 Credit
Grading Scheme: Letter Grade
Seminar using the study of contemporary issues in forest resources and conservation to build critical thinking and communication, leadership, presentation, and interview skills.
Prerequisite: 4FY status or instructor permission.

FOR 4060 Global Forests 3 Credits
Grading Scheme: Letter Grade
Overview of important international issues and developments related to forest resource use and tree management systems in a wide variety of contexts.
Prerequisite: 4FY or higher.

FOR 4090C Urban Forestry 3 Credits
Grading Scheme: Letter Grade
Introduces the nature, scope and components of the urban forest, including biology, culture, protection and aspects of management, planning and policy.
Prerequisite: 4FY or higher.

FOR 4110 Ecology and Restoration of Longleaf Pine Ecosystems 3 Credits
Grading Scheme: Letter Grade
History, structure, importance, ecology, restoration and management techniques, ownership patterns and policy implications.
Prerequisite: FOR 3153C or PCB 3034C or PCB 4043C, or the equivalent.

FOR 4621 Forest Economics and Management 4 Credits
Grading Scheme: Letter Grade
Principles of forest management for timber, non-timber and timberland valuation: decision analysis, management plans, forest regulation and harvest scheduling.
Prerequisite: FOR 3162C and ECO 2023, or the equivalents.

FOR 4624C Forest Health Management 3 Credits
Grading Scheme: Letter Grade
Integrated, tree- and forest-oriented study of forest health emphasizing the ecological and economic roles of the biotic agents and abiotic factors that incite dysfunction and the biological and ecological basis for the maintenance of forest health through integrated management of these agents and the forest.
Prerequisite: 4 FY or higher.

FOR 4664 Sustainable Ecotourism Development 3 Credits
Grading Scheme: Letter Grade
Interdisciplinary and applicable study of the tools and techniques managers and planners use to provide sustainable ecotourism opportunities in Florida and worldwide. Topics include integrating ecotourism with other resource uses, landscape level ecotourism planning, sustainable community development, minimizing and monitoring ecotourism impacts, and creating a diversity of ecotourism opportunities.

FOR 4854 Agroforestry 3 Credits
Grading Scheme: Letter Grade
Concepts and principles of agroforestry, including its complexity and diversity, improved agroforestry techniques in temperate and tropical zones, recent research problems and methodologies of agroforestry research, and the potentials of agroforestry in land management and development.
Prerequisite: 4FY or 4AG.

FOR 4900 Supervised Extension Experience in Forest Resources and Conservation 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

FOR 4905 Individual Study in Natural Resources 1-4 Credits
Grading Scheme: Letter Grade
Individual study of a selected topic related to forest resources and conservation as contracted with the instructor at the start of the term.

FOR 4911 Supervised Research in Forest Resources and Conservation 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in forest resources and conservation under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

FOR 4915 Honors Thesis Research 0-3 Credits
Grading Scheme: S/U

FOR 4934 Topics in Natural Resources 1-4 Credits
Grading Scheme: Letter Grade
Topics in forestry, wood science, range, recreation, wildlife and fisheries. Topics include special issues and in-depth study of topics not in other courses.

FOR 4941 Internship in Natural Resources 1-4 Credits
Grading Scheme: S/U
Supervision by a faculty member and a post-internship report are required. (S-U)
Prerequisite: undergraduate coordinator permission.

French | Languages, Literatures, and Cultures

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Courses

FRE 1130 Beginning French 1 5 Credits
Grading Scheme: Letter Grade
Beginning French 1 and Beginning French 2 constitute the basic sequence in French for the development of overall skill in the language. Open to those with little or no background in French.

FRE 1131 Beginning French 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence in French for the development of overall skill in the language. Open to those with little or no background in French.
Prerequisite: FRE 1130 or FRE 1180 with minimum grade of C, or S, or the equivalent as proven by placement test score.

FRE 1134 Accelerated French Review 5 Credits
Grading Scheme: Letter Grade
Provides a rapid review of basic communicative French as preparation for intermediate French. For those with previous French study but insufficient placement scores to move to the 2000 level.
Prerequisite: Two years of high school French or equivalent.

FRE 1180 Elementary French: Review and Progress 3 Credits
Grading Scheme: Letter Grade
For those who have previous experience in French but who are not yet prepared for advanced elementary work in the language. FRE 1180 confirms overall language skill in preparation for FRE 1131.

FRE 1182 Preparation for Intermediate French 3 Credits
Grading Scheme: Letter Grade
Alternative to FRE 1131 for those who have had four years of high school French or equivalent, but whose placement scores are not high enough for FRE 2200. Combines the material of FRE 1130 and 1131 in one semester. Meets three times per week. FRE 2200 follows in the sequence.
Prerequisite: not for those with credit for FRE 1180 or FRE 1115.

FRE 2220 Intermediate French 1 4 Credits
Grading Scheme: Letter Grade
Devoted to grammar review and composition as well as to the advancement of spoken proficiency, FRE 2220 and its sequel, FRE 2221, develop reading and writing skills in French.
Prerequisite: FRE 1131 or FRE 1134 or FRE 1182.

FRE 2221 Intermediate French 2 4 Credits
Grading Scheme: Letter Grade
Continued grammar review. Emphasizes practice in reading and developing vocabulary. Selected readings in French and Francophone fiction.
Prerequisite: FRE 2220.

FRE 2274 Intensive French Abroad 6 Credits
Grading Scheme: Letter Grade
An immersion language course integrating the experience, observations and impressions of students living abroad with a French family (site announced annually). Emphasis on development of language proficiency and cultural awareness. Class meets 12 hours a week. Enhances speaking, reading, writing proficiency and the ability to communicate with native speakers.
Prerequisite: FRE 1131 with minimum grade of C, or S, or the equivalent as proven by placement test score.

FRE 3070 Accelerated Introduction to French 5 Credits
Grading Scheme: Letter Grade
An accelerated introduction to French. Assumes no previous knowledge of French. Offers a four-skill introduction to the language for those who have completed intermediate level study in another Romance language.

FRE 3224 Applied French 1-5 Credits
Grading Scheme: Letter Grade
French-language reading and discussion section designed to accompany and complement areas of diverse content offered in other departments. Readings and discussions are in French to develop specific vocabulary and fluency related to the content of the companion course, as well as to provide an international perspective on the issues of the main course. (N)
Prerequisite: FRE 2242 or instructor permission; 3 credits can count toward the major or minor.
Attributes: General Education - International

FRE 3300 Grammar and Composition 3 Credits
Grading Scheme: Letter Grade
Systematic examination of French grammar. Practice of writing at several levels (summary of texts, descriptions, compositions). Textual analysis of literary and journalistic materials. First course of major sequence.
Prerequisite: FRE 2274 or AP score of 5, IB score of 6 or SAT2 score of 700 and above.

FRE 3320 Composition and Stylistics 3 Credits
Grading Scheme: Letter Grade
Develops advanced writing skills through the stylistic study of literary and journalistic texts. Writing assignments focus on development of a variety of skills, including summaries, literary analyses, argumentative essays, etc. Aspects of French grammar are highlighted along with analytical terms and key vocabulary from texts.
Prerequisite: FRE 3300 or the equivalent.

FRE 3410 French Conversation and Interaction 3 Credits
Grading Scheme: Letter Grade
Develops and refines oral and comprehension skills relating to different domains. New vocabulary ranging from the colloquial to the most refined of discourses enables students to recognize and use words and expressions in the proper context; material enables students to move from discussions about themselves to situations they are likely to encounter in daily life abroad, through interviewing techniques and professional interaction.
Prerequisite: FRE 2221.

FRE 3440 Commercial French 3 Credits
Grading Scheme: Letter Grade
Introduction to business practices in France with particular emphasis on active use of business vocabulary and salient cultural differences. Major topics include written business communication, financial institutions, trade and advertising. (S and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - International, General Education - Social Science

FRE 3442 Contemporary French Commerce 3 Credits
Grading Scheme: Letter Grade
Continues the acquisition of business language with special attention paid to technical readings, marketing, case studies and the role of France in the European Union. Emphasis is also placed on oral communication skills and contrasting U.S. and French business culture.
Prerequisite: FRE 3300 or instructor permission.

FRE 3500 France through the Ages 3 Credits
Grading Scheme: Letter Grade
A study of France within context of the principal historical events that have formed and transformed the nation state, its mentality and its cultural production. Special attention is given to the significant political, intellectual, religious, social and artistic currents that have marked France and its image from ancient times to the present. (H and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - Humanities, General Education - International

FRE 3502 Francophone Cultures 3 Credits
Grading Scheme: Letter Grade
A study of the cultures of countries or regions where French is used as the (or one of the) official language(s) or, in a less official capacity, by a segment of the population. Study of some of the historical, conceptual, practical and problematic aspects of Francophonie. Also concentrates on one specific area (the Caribbean or West Africa or Quebec, etc., on a rotating basis). Literary samples are included. (H and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - Humanities, General Education - International

FRE 3564 Contemporary French Culture 3 Credits
Grading Scheme: Letter Grade
An overview of contemporary France that may include the study of politics, economics, education and the arts as well as ideas of national and ethnic identity and France's place in the EU. (H and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - Humanities, General Education - International

FRE 3780L Corrective Phonetics 3 Credits
Grading Scheme: Letter Grade
A survey of the units of speech cast in practical terms and organized by classes of sounds with particular emphasis on rhythm, vowels, nasalization, diphthongs and the complex phenomena that occur at word transitions in French. Taught in French, in an audio laboratory, with the instructor as monitor and with a manual designed for individualized instruction.
Prerequisite: FRE 2221 or the equivalent.

FRE 4411 French for Proficiency 2 Credits
Grading Scheme: Letter Grade
Oral practice with emphasis on the structure of oral communication and oral presentation. Learn to utilize organizational frames, highlight transitions and make oral reports clear and accessible. Speech acts and alternative options in communication are given ample attention. Especially useful to those planning to use French in a variety of professions.
Prerequisite: FRE 3410 or the equivalent.

FRE 4420 Writing in French 3 Credits
Grading Scheme: Letter Grade
Advanced writing course that provides a systematic study (or review) of French syntax, vocabulary and style with the help of drill sessions. Also may include some training in literary translation. A number of quizzes and written compositions.
Prerequisite: FRE 3320 or instructor permission.

FRE 4501 The French Language in the Americas 3 Credits
Grading Scheme: Letter Grade
Examination of the presence of French in the Americas. Topics covered include: the origin of French in the Americas, language practices of Francophone communities, linguistic characteristics of the varieties of French, the effect of language contact on language behavior and representations and identity issues. Focus varies from year to year.
Prerequisite: FRE 3320.

FRE 4780 Introduction to French Phonetics and Phonology 3 Credits
Grading Scheme: Letter Grade
An introduction to French phonological processes, providing explanatory evidence for the production of speech sounds, for the classification of sounds, for their interrelationship with one another (gliding, nasalization, assimilation), for morphological and syllable structure, for specifically French phenomena such as liaison, elision, final consonant drop, schwa drop, and for the relationship of morphology to phonology, especially in the verb system.
Prerequisite: FRE 3320; LIN 3010 recommended.

FRE 4822 Sociolinguistics of French 3 Credits
Grading Scheme: Letter Grade
Sociolinguistic issues in the French-speaking world: language variation, discourse analysis, attitudes toward varieties of French and contact with speakers of other languages.
Prerequisite: FRE 3320; LIN 3010 recommended.

FRE 4850 Introduction to the Structure of French 3 Credits
Grading Scheme: Letter Grade
Explores the French language as a system of communication and mental representation. Analyzes the morphological, syntactic and semantic aspects of contemporary French, and emphasizes the historical, psychological and sociological dimension of linguistic investigation.
Prerequisite: FRE 3320; LIN 3010 recommended.

FRE 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
For advanced major and minors who seek independent work not offered in another course. Must be arranged individually with French faculty.
Prerequisite: department permission; only three credits can count toward the minor or major.

FRE 4906 Honors Thesis 1-3 Credits
Grading Scheme: Letter Grade
Directed research leading to a 30-40 page essay on a topic approved by the thesis director; registration for two semesters is highly recommended. Not a substitute for a required course in the French major.
Prerequisite: 3.5 minimum GPA.

FRE 4911 Undergraduate Research in Language or Linguistics 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Language or Linguistics. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Language or Linguistics.

FRE 4930 Revolving Topics in French Studies 1-5 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in French studies.
Prerequisite: FRE 3320 and FRW 3100 or FRE 3101, or the equivalent.

FRE 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

FRT 2460 French Texts and Contexts 3 Credits
Grading Scheme: Letter Grade
Selected readings in English translation of major works of French literature. For those with no knowledge of French, not for credit in the major. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

FRT 2930 Special Topics in French Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Rotating topics in French literature and culture; taught in English.

FRT 3004 Monuments and Masterpieces of France 3 Credits
Grading Scheme: Letter Grade
Study of selected masterpieces of French literature, in English translation. Works to be considered as they relate to history and as they can be read in strictly literary terms. Topic varies from year to year.
Prerequisite: sophomore standing or higher.

FRT 3520 French Cinema 4-8 Credits
Grading Scheme: Letter Grade
Critical, theoretical and historical study of French cinema. Topics will be announced. Content may include key directors, 1930s cinema, nostalgia and masculinity in 1980s films, World War II cinema, and Colonial and Postcolonial cinema. Open to French majors and non-majors and is taught in English. (H and N)
Attributes: General Education - Humanities, General Education - International

FRT 3561 Women in French Literature and/or Cinema 3-4 Credits
Grading Scheme: Letter Grade
Introduction to the rich heritage of feminist traditions in France and Francophone countries through an exploration of women writers and thinkers (filmmakers, theorists), primarily of the 19th and 20th centuries. Selected topics include L'criture fminine (Writing the Feminine), autobiographical writing by French and Francophone women, women in French cinema and representations of women in French film and literature. Read, discuss and analyze a broad spectrum of primary and secondary sources from a feminist viewpoint. (H and N OR S and N)
Attributes: General Education - Humanities, General Education - International, General Education - Social Science

FRT 4523 European Identities, European Cinemas 4 Credits
Grading Scheme: Letter Grade
Provides knowledge of different cultures, languages and identities that make up contemporary European cinemas.

FRT 4911 Undergraduate Research in English Translation 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in English Translation. Projects may involve inquiry, design, investigation, scholarship, discovery or application in English Translation.

FRT 4956 Overseas Studies 3 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

FRW 3100 Introduction to French Literature 1 3 Credits
Grading Scheme: Letter Grade
Overview of French Medieval, Renaissance and classical literature and culture, with major literary, intellectual and historical trends through study of representative works from each period. Emphasizes close reading of texts to train students to read critically and to familiarize them with major authors, genres and interpretations. (H and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - Humanities, General Education - International

FRW 3101 Introduction to French Literature 2 3 Credits
Grading Scheme: Letter Grade
Selected readings of outstanding authors of prose fiction, poetry and theatre from the 18th to the 20th century. Provides the historical context for major literary movements and authors, and trains students to read and write critically. Generally organized thematically. (H and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - Humanities, General Education - International

FRW 3930 Rotating Topics in French and Francophone Literature 3 Credits
Grading Scheme: Letter Grade
Selected topics in French literature.
Prerequisite: FRE 3320 or instructor permission.

FRW 4212 Readings in 17th Century French Prose 3 Credits
Grading Scheme: Letter Grade
Selected readings with an emphasis on the history of ideas, the moralistes and culture in the early modern period. Texts include Descartes, Cyrano de Bergerac, Pascal, Fontenelle, La Rochefoucauld, La Fayette, La Bruyre and Svign.
Prerequisite: FRE 3320 and (FRW 3100 or FRW 3101), or the equivalent.

FRW 4273 Readings in 18th Century French Literature 3 Credits
Grading Scheme: Letter Grade
Rotating topics exploring the fiction, theatre or intellectual prose of the Enlightenment. Special emphasis placed on the cultural climate and productions of the ancient regime.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4281 Readings in the 20th Century French Novel 3 Credits
Grading Scheme: Letter Grade
Examination of representative novels in 20th century French literature from Proust to the New Novel and beyond. Emphasis may include study of genre, narrative techniques, literary modernism and major themes. Combines an historical approach with close textual readings. Authors frequently studied include Proust, Gide, Malraux, Cline, Camus, Sartre, Robbe-Grillet, Butor, Sarraute and Duras.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4310 Seventeenth Century French Drama 3 Credits
Grading Scheme: Letter Grade
Theory and practice of dramaturgy in the classical period as reflected in plays of Corneille, Molire and Racine. Close textual analysis to disengage aesthetic and ideological problematics posed by each play.

FRW 4324 Readings in 20th Century French Theatre 3 Credits
Grading Scheme: Letter Grade
A study of selected plays (by Jarry, Claudel, Giraudoux, Camus, Anouilh, Ghelderode, Beckett, Ionesco, Genet, etc.), dramatic techniques and the evolution of modern French theatre as a genre.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4350 Modern French Poetry from Baudelaire to the Present 3 Credits
Grading Scheme: Letter Grade
Combines an historical approach with close readings of poetic texts; also introduces a number of theoretical and critical writings. Although traditional poetic texts are studied, the works of less frequently taught poets are also presented.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4391 Concepts of French Cinema 4 Credits
Grading Scheme: Letter Grade
A critical and historical study of the representation of gender and ethnicity in French cinema.
Prerequisite: FRE 3300.

FRW 4532 Survey of French Romantic Literature 3 Credits
Grading Scheme: Letter Grade
A rotating topics tracing the development and the main tenets of 19th century French Romanticism. Concentrates on various themes and genres, including poetry, theater and the novel as well as the socioeconomic and cultural matrices that fostered the movement. Emphasizes the relationship between literature and the visual arts, constructions of gendered, cultural and artistic subjectivities, exoticism (spatial, temporal and mystical voyages) and representations of Paris and French society. Beginning with pre-Romantic authors, moves on to Lamartine, Stendhal, Hugo, Vigny, Balzac, Sand, Musset, Desbordes-Valmore, Nerval and Baudelaire.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4552 Introduction to Realism and Naturalism 3 Credits
Grading Scheme: Letter Grade
Rotating topics trace the development and the main tenets of latter 19th century literary, artistic and cultural productions. Concentrates on various themes and genres, including poetry, theatre and the novel as well as the socioeconomic and cultural matrices that fostered movements arising between 1850 and the fin de sicle. Specific attention may be devoted to definitions of Realism, Naturalism and Symbolism; representations of modern life and the industrialization of the literary market; the infiltration of scientific and mechanistic thought into literary productions (poetry or prose); and representations of women and the female body, of Paris and Parisian society.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4762 Readings in Francophone Literatures and Cultures (excluding the Caribbean and Sub-Saharan Africa) 3 Credits
Grading Scheme: Letter Grade
Rotating topics in the literatures and cultures of the Francophone world, including North America (Quebec), Europe (Belgium, Switzerland and regional France), Asia (Vietnam, Indian Ocean) and the Middle East.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4770 African and Caribbean Literatures 3 Credits
Grading Scheme: Letter Grade
The production of Sub-Saharan African writers from its inception to the present through examination of representative works and figures, genres (epics, poetry, drama, novels), discourses and critics that inform the productions. Particular attention is paid to historical, political and cultural issues that figure in the development and orientation of African literature in French. Occasional inclusion of Caribbean literature for purpose of comparison.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4822 Introduction to French Critical Theory 3 Credits
Grading Scheme: Letter Grade
Review and comparative analysis of approaches to literature from Romanticism to Deconstructionism. Reading and writing are examined through the eyes of Sainte-Beuve, Taine, Lanson, Bachelard, the Geneva School, Ricoeur, Bataille, Blanchot, Barthes, Foucault, Genette, Lacan, Kristeva, Todorov, Derrida and others.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4911 Undergraduate Research in Target Language 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Target Language. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Target Language.

FRW 4932 Senior Seminar in French Literature 3 Credits
Grading Scheme: Letter Grade
Rotating topics for French majors and minors in the senior year. Topics rotate given research interests or field of specialization of the teaching faculty. Recent topics have included La Posie du Voyage; L'Ecriture Fminine; Le Discontinu chez La Rochefoucauld et La Bruyre; Charles Baudelaire: pote/critique de la vie moderne; Qu'est-ce que la Rvolte?
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101.

Geography

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

GEA 1000 Geography for a Changing World 3 Credits
Grading Scheme: Letter Grade
The spatial organization of society. Emphasizes the political regions of the world. (S and N)
Attributes: General Education - International, General Education - Social Science

GEA 2270 Geography of Florida 3 Credits
Grading Scheme: Letter Grade
Geographic conditions and human adjustments in the major regions in Florida. The natural environment, population, routes of communication, industries, resources and strategic location in their geographical and historical aspects. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

GEA 3405 Geography of Latin America 3 Credits
Grading Scheme: Letter Grade
Examines the interconnecting land, life and welfare throughout Latin America. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

GEA 3500 Geography of Europe 3 Credits
Grading Scheme: Letter Grade
Comprehensive and systematic survey of the population, natural resources, geographic regions and potentialities of Europe and the significance of this region in the economic and political affairs of the world. (N and S)
Attributes: General Education - International, General Education - Social Science

GEA 3600 Geography of Africa 3 Credits
Grading Scheme: Letter Grade
Comprehensive and systematic survey of the population, natural resources, geographic regions and potentialities of Africa and the significance of this region in the economic and political affairs of the world. (S and N) (WR)
Attributes: General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

GEA 4465 Amazonia 3 Credits
Grading Scheme: Letter Grade
The biophysical basis of natural resource management, cultural diversity and economic development in Amazonia. Appreciating the complexity and variability of soils, vegetation, aquatic ecosystems and climate in the region offers clues for understanding human settlement and development as well as the potential and limitations of the rich natural resource base. (S and N)
Attributes: General Education - International, General Education - Social Science

GEA 4911 Undergraduate Research in Regional Geography 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Regional Geography. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Regional Geography.

GEO 2006 Natural Hazards Geography 3 Credits
Grading Scheme: Letter Grade
Examines global weather, climate, and geophysical hazard events through geographic lens of human-environment interactions to understand how disasters emerge not only due to extreme events but from complex social, cultural, psychological, political, and economic forces. Discusses historical, recent, and ongoing hazard events to connect theory to individual and shared experiences.

GEO 2200 Physical Geography 3 Credits
Grading Scheme: Letter Grade
Studies the development and distribution of landforms, climates, minerals, soils and water resources. Interrelationships among the physical environment and regional patterns formed by these elements are analyzed against man's utilization of them. (P)
Attributes: General Education - Physical Science

GEO 2200L Physical Geography Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory in physical geography, for lab science credit. (P)
Corequisite: GEO 2200 or GEO 2201.
Attributes: General Education - Physical Science

GEO 2242 Extreme Weather 3 Credits
Grading Scheme: Letter Grade
Introduces the science of weather (what we get short term) and climate (what we expect long term) and current scientific developments in such areas as extreme weather prediction, global climate change and improved forecasting of events. (P)
Attributes: General Education - Physical Science

GEO 2410 Social Geography 3 Credits
Grading Scheme: Letter Grade
Introduces geography as a social science. Various social concepts presented from a spatial perspective. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

GEO 2420 Introduction to Human Geography 3 Credits
Grading Scheme: Letter Grade
Introduces cultural geography with an emphasis upon the development and spatial arrangement of the major societies of the modern world. (S and N)
Attributes: General Education - International, General Education - Social Science

GEO 2426 Pop Music and Culture: a Geographic Perspective 3 Credits
Grading Scheme: Letter Grade
Examines the geographic origins, development and diffusion of contemporary pop music and the regional dynamics of pop music culture from the 1950s to present. (S)
Attributes: General Education - Social Science

GEO 2500 Global and Regional Economies 3 Credits
Grading Scheme: Letter Grade
Contemporary perspectives, themes and research in economic geography, focusing on issues and problems associated with regional and global economic and demographic change. Regional variations and disparities in growth and development are analyzed and policy implications discussed. (S) (WR)
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

GEO 3162C Introduction to Quantitative Analysis for Geographers 4 Credits
Grading Scheme: Letter Grade
Introduces elementary geographical data analysis, including spatial measurement, spatial statistics and spatial forecasting. Students apply statistical concepts and the use of spreadsheet computer software. (P)
Prerequisite: STA 2023 or instructor permission.
Attributes: General Education - Physical Science

GEO 3250 Climatology 3 Credits
Grading Scheme: Letter Grade
Genesis of regional climates and their global distribution. Emphasis on world regional climatology. Secondary topics include applied climatology and climate change. (P)
Prerequisite: MET 1010 or GEO 2200 or GEO 2242.
Attributes: General Education - Physical Science

GEO 3280 Principles of Geographic Hydrology 4 Credits
Grading Scheme: Letter Grade
Examines the effects of physical geography on the land-based portion of the hydrologic cycle at the regional and basin scales. Includes discussion of precipitation, infiltration and runoff. (P)
Prerequisite: GEO 2200 or instructor permission;
Corequisite: GEO 3162C.
Attributes: General Education - Physical Science

GEO 3315 Geography of Crop Plants 3 Credits
Grading Scheme: Letter Grade
Studies the biological structure, means of survival, propagation and distribution of plants, with emphasis on their relationship to the culture and diffusion of man throughout the world and his part in their development and improvement. (B)
Attributes: General Education - Biological Science

GEO 3341 Extreme Floods 3 Credits
Grading Scheme: Letter Grade
Examines the world's most extreme floods from the Pleistocene through present due to various causes. Discusses physical and human aspects of flood warning, preparedness, response and recovery throughout the world. (N and P)
Attributes: General Education - International, General Education - Physical Science

GEO 3352 The Human Footprint on Landscape 3 Credits
Grading Scheme: Letter Grade
Studies human-environment relationships from a primarily geographic perspective, focusing on the human forces that shape landscapes.

GEO 3372 Conservation of Resources 3 Credits
Grading Scheme: Letter Grade
Surveys natural resources and a study of wise and wasteful practices of these resources. Satisfies resource certification for social studies teachers.
Prerequisite: sophomore standing or higher or instructor permission.

GEO 3427 Plants, Health and Spirituality 3 Credits
Grading Scheme: Letter Grade
Issues and controversies surrounding organic food, genetically-modified crops, medicinal plants, plants used to achieve altered states of consciousness and the importance of ornamental plants as inspiration for artists and in worship.

GEO 3430 Population Geography 3 Credits
Grading Scheme: Letter Grade
Geographical analysis of populations, including population description, distribution, change and characteristics; demographic processes; and the consequences of development, conflict and population control diseases. (S)
Attributes: General Education - Social Science

GEO 3452 Introduction to Medical Geography 3 Credits
Grading Scheme: Letter Grade
Medical geography deals with human-environment interactions and the influence of these interactions on public health. Provides a broad and comprehensive survey of geographic approaches in medical studies. (B)
Prerequisite: sophomore standing or higher; entry-level knowledge of statistics (STA 2023 or GEO 3162C or equivalent) recommended.
Attributes: General Education - Biological Science

GEO 3454 Peoples and Plagues 3 Credits
Grading Scheme: Letter Grade
Introduces emerging infectious diseases (EIDs) in the context of previous outbreaks, focusing on geography, origin, and management response. Explores basic models of infectious diseases processes, transmission cycled, and life-histories of host-vector systems, and the ecological and landscape conditions that favor emergence.
Prerequisite: sophomore standing.

GEO 3502 Economic Geography 3 Credits
Grading Scheme: Letter Grade
A comprehensive geographical survey of major economic activities such as agriculture, forestry, fishing, mining, manufacturing and commerce. Emphasizes the study of the characteristics of distribution and the regional patterns of these activities. (S) (WR)
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

GEO 3602 Urban and Business Geography 3 Credits
Grading Scheme: Letter Grade
An empirical and theoretical spatial analysis of the various economic, population and social facets within and between urban settlements. (S) (WR)
Prerequisite: junior standing or instructor permission.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

GEO 3611 Housing, People and Places in a Spatially Diverse America 3 Credits
Grading Scheme: Letter Grade
Examines the housing, people and places that comprise the diverse contemporary human settlement patterns in the U.S. Topics focus on the quality of life found in the housing and neighborhoods of these urban and rural landscapes. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

GEO 3803 Geography of Alcohol 3 Credits
Grading Scheme: Letter Grade
Origins and fission of alcoholic beverages and associated crops on a global scale.

GEO 3930 Special Topics 3 Credits
Grading Scheme: Letter Grade
Rotating topics in geography.

GEO 4167C Intermediate Quantitative Analysis for Geographers 3 Credits
Grading Scheme: Letter Grade
Surveys various multivariate techniques commonly used to analyze geographic data. Emphasis on hypothesis testing, inference, multiple regression, analysis of variance and cluster analysis. Introduces time-series regression and grouped estimation procedures, factor analysis, probit/logit modeling and trend-surface interpolation. (WR)
Prerequisite: GEO 3162C or the equivalent.
Attributes: Satisfies 6000 Words of Writing Requirement

GEO 4169 Spatial Econometrics and Modeling 3 Credits
Grading Scheme: Letter Grade
Introduces regression models capable of dealing with spatial auto-correlation; develop statistical models and estimate with computer software.
Prerequisite: GEO 4167C or equivalent.

GEO 4281 River Forms and Processes 3 Credits
Grading Scheme: Letter Grade
Examines the nature and variety of fluvial processes and the origin and modification of fluvial landforms. Includes discussion of environmental changes in rivers and human activities in drainage basins.
Prerequisite: GEO 2200 or GLY 2010C, or instructor permission.

GEO 4285 Models in Geographic Hydrology 3 Credits
Grading Scheme: Letter Grade
Investigates the numerical and computational techniques available for the extraction of geographic information from hydrometeorologic data. (WR)
Prerequisite: GEO 3162C and (GEO 3280 or STA 3032).
Corequisite: GEO 4167C.
Attributes: Satisfies 6000 Words of Writing Requirement

GEO 4300 Environmental Biogeography 3 Credits
Grading Scheme: Letter Grade
Description and explanation of spatial patterns of biodiversity and the underlying biophysical factors of human-environment interactions. Investigates past and present distributions of organisms and how patterns of environmental variation influence organisms. How biogeography is used to design nature reserves and how forecasting climate change may affect organisms and explain human adaptations to environmental variability.
Prerequisite: GEO 2200 or equivalent.

GEO 4306C Geography of Vector-borne Diseases 3 Credits
Grading Scheme: Letter Grade
Introduces the spatial epidemiology of vector-borne diseases (VBDs) and geospatial methods for monitoring, mapping and modeling them. Provides hands-on experiences for mapping and modeling risk of VBDs via GIS-based labs.
Prerequisite: GEO 3452 or GIS 3043 or permission of the instructor.

GEO 4554 Regional Development 3 Credits
Grading Scheme: Letter Grade
The problems of regional development and regional growth within the context of economic, political and spatial relationships. (S) (WR)
Prerequisite: junior or senior standing.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

GEO 4612 Shelter and Care Options for U.S. Elderly 3 Credits
Grading Scheme: Letter Grade
Examines the strengths, weaknesses and demand for housing and care alternatives addressing the needs of both active and frail American elderly persons.
Prerequisite: refer to the department.

GEO 4905 Individual Work 1-5 Credits
Grading Scheme: Letter Grade
Qualified students and the instructor concerned may choose a particular topic or problem for study.
Prerequisite: undergraduates only with 9 credits of geography and instructor permission.

GEO 4911 Undergraduate Research in Geography 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Geography. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Geography.

GEO 4930 Senior Seminar 1 Credit
Grading Scheme: Letter Grade
Integrates geographic concepts for graduating seniors; provides introduction to professional geography for students entering the job market.
Prerequisite: geography seniors only.

GEO 4938 Selected Topics in Geography 1-4 Credits
Grading Scheme: Letter Grade
Rotating geography topics.

GEO 4944 Internship 1-10 Credits
Grading Scheme: Letter Grade
Experimental learning in position with city, county, regional and state government agencies.
Prerequisite: senior standing.

GEO 4970 Honors Thesis 3 Credits
Grading Scheme: Letter Grade
Completion of an honors thesis that meets department specifications during the semester in which the student is enrolled.
Prerequisite: senior standing and participation in department honors program.

GIS 2002 The Digital Earth 3 Credits
Grading Scheme: Letter Grade
Focuses on how the Earth's surface is visualized, explored, and analyzed in digital formats (e.g. maps, satellite images, aerial photos). Provides an introduction to fundamental concepts of digital geographic data to understand the Earth environment and human society based on the vast quantities of geographic information in our ever-changing world.

GIS 3001C Spatial Maps and Graphs 4 Credits
Grading Scheme: Letter Grade
Analyzes cartographic problems with exercises in techniques of presentation, including map projections and symbols and problems in statistical representation by graphic methods.
Prerequisite: sophomore standing or above.

GIS 3043 Foundations of Geographic Information Systems 4 Credits
Grading Scheme: Letter Grade
Geographic Information Systems (GIS) as the technology for creation, modification, display and analysis of spatial information. Develops knowledge of GIS, competence in geographic databases and familiarity with computer software and hardware.
Prerequisite: GEO 2200, GEO 3162C and 2000-level human geography course.

GIS 3420C GIS Models for Public Health 3 Credits
Grading Scheme: Letter Grade
Focuses on the design of GIS-based models to address health and healthcare issues. Topics include a conceptual framework, landscape epidemiology models, disease diffusion models, health accessibility, human health behavior and location-allocation of health services. Laboratory section provides hands-on experience applying these models with GIS tools.
Prerequisite: GIS 3043 and (STA 2023 or GEO 3162C).

GIS 4021C Aerial Photo Interpretation 3 Credits
Grading Scheme: Letter Grade
Principles of aerial photography, identification and interpretation of physical and cultural features, sketching and simple map-making, and uses of aerial photography.
Prerequisite: GEO 2200 or instructor permission.

GIS 4037 Digital Image Processing 4 Credits
Grading Scheme: Letter Grade
Introduces the theory and application of digital imagery data in geographical research with a hands-on, lab-based approach.
Prerequisite: instructor permission.

GIS 4102C GIS Programming 3 Credits
Grading Scheme: Letter Grade
Introduces basic programming concepts; instruction in popular programming languages for geospatial processing, applications, and modeling in ArcGIS environment.
Prerequisite: GIS 3043C or equivalent.

GIS 4113 Introduction to Spatial Networks 3 Credits
Grading Scheme: Letter Grade
Many phenomena of interest in physical, social and cyber environments can be thought of as networks within geographic context. Teaches methods for analyzing these spatial networks, and introduces their applications in geography, transportation, hydrology, epidemiology, social science, etc.
Prerequisite: Entry level knowledge of statistics or instructor permission. Prior experience with ArcGIS is preferred.

GIS 4115 Applied Geostats 3 Credits
Grading Scheme: Letter Grade
Introduces fundamentals and practices of advanced geostatistical analysis (kriging), which addresses optimal spatial interpolation. Geostatistics are currently applied in diverse disciplines such as geography, geology, engineering, hydrology, urban studies and epidemiology.
Prerequisite: (STA 2023 or GEO 3162C or equivalent) and GIS 3043 or equivalent or instructor permission.

GIS 4324 GIS Analysis of Hazard Vulnerability 3 Credits
Grading Scheme: Letter Grade
Geographic and cartographic techniques for geospatial analysis of risk, vulnerability, and resilience using ArcGIS. Learn to utilize physical and human geographic datasets for multiple hazard contexts including hydrometeorological, climatological, and geophysical hazards.
Prerequisite: GIS 3043 or URP 4273 with minimum grade of C.

GIS 4911 Undergraduate Research in Geospatial Trends 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Geospatial Trends. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Geospatial Trends.

GLY 4734 Coastal Morphology and Processes 3 Credits
Grading Scheme: Letter Grade
Examines the nature and variety of coastal processes, and the origin and modification of environmental changes along coasts, including human activities in the coastal zone.
Prerequisite: GEO 2200 or GLY 2010C or GLY 2030C.

MET 3503 Weather and Forecasting 3 Credits
Grading Scheme: Letter Grade
Provides hands-on experience using weather instruments and making forecasts.
Prerequisite: GEO 2242 or MET 1010 or GEO 2200.

MET 4532 Hurricanes 3 Credits
Grading Scheme: Letter Grade
Meteorological and climatological concepts related to hurricanes. Forecasting current activity, researching past storms and analyzing storm structure, damage and future trends.
Prerequisite: MET 3503 or GEO 3250.

MET 4560 Atmospheric Teleconnections 3 Credits
Grading Scheme: Letter Grade
Atmospheric teleconnections are recurring large-scale patterns of pressure and circulation anomalies. They can influence temperature, rainfall, storm tracks and jet stream location and intensity. Examines how these patterns were discovered, how the index that characterizes the phase of each teleconnection is calculated and the weather associated with different phases.
Prerequisite: MET 3503 or GEO 3250 with a minimum B- grade.

MET 4750 Spatial Analysis of Atmospheric Data using GIS 3 Credits
Grading Scheme: Letter Grade
How atmospheric data are collected and analyzed for meteorologic and climatologic-scale research. Where various types of data are obtained and how to analyze data to answer specific research questions.
Prerequisite: GEO 3250 or MET 3503 or MET 4532

MET 4911 Undergraduate Research in Meteorology and Climatology 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery or application.

Geological Sciences

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More Info (http://registrar.ufl.edu/soc)

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Courses

ESC 1000 Introduction to Earth Science 3 Credits
Grading Scheme: Letter Grade
Integrated application of the scientific method to the earth sciences, including geologic materials, resources and processes; surface, groundwater and climate; environmental problems; and related topics. Emphasizes Florida examples. (P)
Attributes: General Education - Physical Science

ESC 3075 Deltas and Humans 3 Credits
Grading Scheme: Letter Grade
Examines the historical relationship between humans and deltas, outlining possible coastal management plans in response to sea level rise

GEO 4281 River Forms and Processes 3 Credits
Grading Scheme: Letter Grade
Examines the nature and variety of fluvial processes and the origin and modification of fluvial landforms. Includes discussion of environmental changes in rivers and human activities in drainage basins.
Prerequisite: GEO 2200 or GLY 2010C, or instructor permission.

GLY 1000 Exploring the Geological Sciences 3 Credits
Grading Scheme: Letter Grade
Selected topics in the geological sciences. For those not majoring in science. (P)
Attributes: General Education - Physical Science

GLY 1102 Age of Dinosaurs 3 Credits
Grading Scheme: Letter Grade
Examination of unique episodes in the physical and biological history of the earth. (B or P)
Attributes: General Education - Biological Science, General Education - Physical Science

GLY 1150L Florida Geology Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory provides a basic understanding of Florida's geology, geologic history, geologic resources and geologically related environmental problems. (P)
Attributes: General Education - Physical Science

GLY 1880 Earthquakes, Volcanoes and Other Hazards 3 Credits
Grading Scheme: Letter Grade
Overview of important topics in Earth science through the examination of hazards, ranging from earthquakes and volcanoes to global warming and impacts from space. For those who are not majoring in science. (P)
Attributes: General Education - Physical Science

GLY 2010C Physical Geology 4 Credits
Grading Scheme: Letter Grade
Materials, structures and surface features of the earth and processes which have produced them. Related laboratory demonstrations and experiences. (P)
Attributes: General Education - Physical Science

GLY 2030C Environmental and Engineering Geology 3 Credits
Grading Scheme: Letter Grade
Hazardous geologic processes and current environmental concerns are related to the earth, the forces acting upon it and the resulting surface features and materials. Human interaction with the environment is illustrated using modern case studies. (P)
Attributes: General Education - Physical Science

GLY 2038 Sustainability and the Changing Earth 3 Credits
Grading Scheme: Letter Grade
Introduces planet Earth as a dynamic and complex global system which has changed due to human interaction. Course materials demonstrate physical and chemical links between the geosphere, hydrosphere, biosphere and atmosphere that directly impact the sustainability of human lifestyles at a variety of timescales. (P)
Attributes: General Education - Physical Science

GLY 2042 Planetary Geology 3 Credits
Grading Scheme: Letter Grade
Introduces recent geological exploration of recent terrestrial planets and moons, comets and asteroids, focusing on comparisons of composition and tectonics on the solid planets and moons.

GLY 2100C Historical Geology 4 Credits
Grading Scheme: Letter Grade
Evolution of the earth and its life, including the major physical events and evolutionary changes recorded in the geologic past. Related laboratory, demonstrations and exercises. (P)
Prerequisite: GLY 2010C or GLY 2030C, or instructor permission.
Attributes: General Education - Physical Science

GLY 3074 Oceans and Global Climate Change 3 Credits
Grading Scheme: Letter Grade
Examines the role the oceans play in determining climate and regulating global climate change on a range of timescales from decades to millions of years. (P)
Attributes: General Education - Physical Science

GLY 3083C Fundamentals of Marine Sciences 3 Credits
Grading Scheme: Letter Grade
Introduces the basic disciplines of marine sciences, including geology, chemistry, physics, biology and conservation, with an emphasis on marine research. Includes three mandatory Saturday field trips.
Prerequisite: OCE 1001.

GLY 3105C Evolution of Earth and Life 4 Credits
Grading Scheme: Letter Grade
Advanced examination of the geologic history of planet earth with an emphasis on North America. (P)
Prerequisite: GLY 2010C or GLY 2030C.
Attributes: General Education - Physical Science

GLY 3163 Geology American National Parks 3 Credits
Grading Scheme: Letter Grade
Introduces geological concepts in the context of selected US national parks. Relates geology to the cultural aspects of these parks and present-day environmental concerns. (P)
Attributes: General Education - Physical Science

GLY 3200C Principles of Mineralogy 4 Credits
Grading Scheme: Letter Grade
Concepts of crystallography, crystal chemistry, physical properties of minerals, mineral genesis and systematic study of the rock-forming or otherwise important minerals including the theory and use of the petrographic microscope for study and identification of these minerals in thin section. (P)
Prerequisite: CHM 1030 or CHM 1025, and GLY 2010C or GLY 2030C.
Attributes: General Education - Physical Science

GLY 3202C Earth Materials 3 Credits
Grading Scheme: Letter Grade
Overview of the origin and occurrence of earth materials with a particular emphasis on the identification and classification of minerals and rocks. Activities involve lecture and a fully integrated laboratory component where students learn to identify and classify minerals and rocks through both macroscopic and microscopic investigation.

GLY 3603C Paleontology 4 Credits
Grading Scheme: Letter Grade
Investigation of the history of life on earth, including aspects of invertebrate and vertebrate paleontology, micropaleontology and paleobotany.
Prerequisite: refer to the department.

GLY 3882C Hydrogeology and Human Affairs 3 Credits
Grading Scheme: Letter Grade
Insight into current scientific, political, legal, social, and economic aspects of hydrogeology.
Prerequisite: junior standing or higher.
Attributes: General Education - Physical Science

GLY 4155C Geology of Florida 3 Credits
Grading Scheme: Letter Grade
Principles of physical and historical geology as applied to the geology and mineral resources of Florida. (P)
Prerequisite: GLY 2010C or GLY 2030C, or instructor permission.
Attributes: General Education - Physical Science

GLY 4310C Igneous and Metamorphic Petrology 4 Credits
Grading Scheme: Letter Grade
Fundamental concepts, principles and data that pertain to the genesis of igneous and metamorphic rocks. Emphasizes mineral phase relations, interpretive petrochemistry, magma genesis and tectonic relationships.
Prerequisite: CHM 1025 and GLY 3200C.

GLY 4400C Structural Geology and Tectonics 4 Credits
Grading Scheme: Letter Grade
Structural features of the earth, their causes, recognition and interpretation; includes the mechanics of folding, faulting, and other deformations of the earth's crust.
Prerequisite: (GLY 2010C or GLY 2030C) and MAC 1147 and GLY 4552C.

GLY 4450 Geophysics 3 Credits
Grading Scheme: Letter Grade
Introduces the basic types of geophysical data used to characterize the subsurface. Learn about seismic refraction and reflection, gravity, magnetics, heat flow, and electromagnetic methods.
Prerequisite: (GLY 2010C or GLY 2030C or GLY 1000) and (MAC 2311 or MAC 2233).

GLY 4552C Sedimentary Geology 4 Credits
Grading Scheme: Letter Grade
Basic disciplines important in understanding the origin and classification of sedimentary rocks including sedimentary petrology, sedimentology, and stratigraphy.
Prerequisite: (GLY 2100C or GLY 3105C) and GLY 3200C.

GLY 4700 Geomorphology 3 Credits
Grading Scheme: Letter Grade
Introduces the processes responsible for the formation and evolution of Earth surface features and landscapes. Emphasizes understanding of how first principles of physics and chemistry can be used to explain landform shaping.
Prerequisite: (GLY 2010C or GLY 2030C) and an additional 3 credits of GLY.

GLY 4726 Geochemical Oceanography 3 Credits
Grading Scheme: Letter Grade
Focuses on chemical properties and processes in the oceans, exploring the links between chemistry, biology, geology, and global change within a marine context. Topics include elemental composition and speciation, biogeochemical cycles, chemical and isotopic tracers, chemistry of marine sediments, and oceanic uptake of anthropogenic carbon.
Prerequisite: CHM 2045 and (OCE 1001 or GLY 2010C or GLY 2030C).

GLY 4734 Coastal Morphology and Processes 3 Credits
Grading Scheme: Letter Grade
Examines the nature and variety of coastal processes, and the origin and modification of environmental changes along coasts, including human activities in the coastal zone.
Prerequisite: GEO 2200 or GLY 2010C or GLY 2030C.

GLY 4750L Geological Field Methods 2 Credits
Grading Scheme: Letter Grade
Methods and techniques used in geological fieldwork.
Prerequisite: GLY 3105C or GLY 2100C, and instructor permission.

GLY 4790 Geology Summer Field Camp 6 Credits
Grading Scheme: Letter Grade
Summer geology field camp in northern New Mexico. Application of field procedures and techniques to the solution of geologic problems and construction of geologic maps.
Prerequisite: GLY 4750L and instructor permission.

GLY 4822 Groundwater Geology 3 Credits
Grading Scheme: Letter Grade
Introduces the concepts of groundwater flow and its relationship to subsurface geology. Practice in applying groundwater flow concepts and problem solving.
Prerequisite: Any GLY 2000-level course or higher and (MAC 1147 or MAC 2311).

GLY 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
For work in addition to that offered in regular courses in mineralogy, petrology, paleontology, stratigraphy, sedimentology and structural geology.
Prerequisite: 15 credits of geology and instructor permission.

GLY 4911 Undergraduate Research in Geology 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in geology. Projects may involve inquiry, design, investigation, scholarship, discovery or application in geology.

GLY 4930 Special Topics in Geology 1-3 Credits
Grading Scheme: Letter Grade
Lecture, conferences or laboratory sessions covering selected topics of current interest in modern geology.
Prerequisite: three courses in geology or instructor permission.

GLY 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade

IDS 2220 Climate Change Science and Solutions 3 Credits
Grading Scheme: Letter Grade
Uses the issue of climate change to deepen understanding of science and its role in society. Working individually and collaboratively, students integrate information and insights from a wide variety of natural sciences and engineering/design disciplines to develop holistic approaches to climate change adaptation and mitigation. (P)
Attributes: General Education - Physical Science

OCE 1001 Introduction to Oceanography 3 Credits
Grading Scheme: Letter Grade
Explores the geological, physical, and biological characteristics of Earths marine realm. Includes discussion of scientific methods, the history of oceanography, and emphasizes understanding of the mutual interactions between humans and the ocean. (P)
Attributes: General Education - Physical Science

Geomatics

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Courses

GIS 3072C Geographic Information Systems 3 Credits
Grading Scheme: Letter Grade
Addresses GIS concepts, data sources, spatial references: GIS data modeling, management, and editing; surface modeling; and vector and raster analysis. Provides practical examples, tutorials, and projects serving the geomatics, natural resource management, and planning fields.

GIS 4121 Geospatial Analysis 3 Credits
Grading Scheme: Letter Grade
Process of identifying and analyzing patterns in geographic data and describing relationships between spatial features. Introduces techniques aimed at the analysis of spatial data. Topics include characterization of spatial data, geographic distributions, pattern identification (point and area objects), field data analysis, spatial modeling and interpolation, regression methods and cluster analysis.
Prerequisite: GIS 3072C and STA 2023 and Geomatics major of junior standing or higher.

SUR 3103C Geomatics 3 Credits
Grading Scheme: Letter Grade
Introduces angle, distance and elevation measurement, as applied to engineering, boundary location, topography, forest management and construction. Covers error theory as well as horizontal and vertical curves.
Prerequisite: MAC 1147 and MAC 2311 placement or equivalent.

SUR 3323 Visualization of Spatial Information 3 Credits
Grading Scheme: Letter Grade
Methods of mapping, modeling, communicating and visualizing spatial features. Includes boundary and topographical features, attributes, site modeling, site development and mapping using computer-aided mapping and design features.

SUR 3331C Photogrammetry 3 Credits
Grading Scheme: Letter Grade
Relates to use of aerial photographs to determine spatial information. Covers elementary techniques of photogrammetry to establish the foundation for SUR 4350 Advanced Photogrammetry.
Prerequisite: SUR 3103C or equivalent.

SUR 3520 Measurement Science 3 Credits
Grading Scheme: Letter Grade
Theory of measurement errors, error propagation, variance and covariance, polynomial curve fitting, regression analysis, correlation and least squares adjustment.
Prerequisite: MAC 2233, STA 2023 and SUR 3641, or the equivalents.

SUR 3641 Survey Computations 3 Credits
Grading Scheme: Letter Grade
Principles of geometry applied to surveying computations. Computer methods in surveying.
Corequisite: SUR 3103C or equivalent.

SUR 4201 Route Geometrics and Design 3 Credits
Grading Scheme: Letter Grade
Geometric design of transportation systems, computer applications and a comprehensive design project. Spiral curves, superelevation theory and earthwork analysis are covered.
Prerequisite: SUR 3103C or equivalent and major in FY-GEM or EG-CE.

SUR 4350C Advanced Photogrammetry 3 Credits
Grading Scheme: Letter Grade
Precise photogrammetric measurements, camera calibration, object space coordinate systems, analytical control extension, stereoplotter mapping, digital mapping and softcopy stereoplotters.
Prerequisite: SUR 3331C and SUR 3520, or the equivalents.

SUR 4376 Geospatial Applications of UASs 3 Credits
Grading Scheme: Letter Grade
Covers contemporary issues and common applications associated with small UASs (Unmanned Aerial Systems).
Prerequisite: SUR 3501C.

SUR 4380 Remote Sensing 3 Credits
Grading Scheme: Letter Grade
Remote sensing systems, ground truthing, image classification systems, mapping applications, applications in plant and animal science, urban planning, engineering, geology and integration into geographic information systems.
Prerequisite: requires 4FY-GEM classification.

SUR 4403 Cadastral Principles 3 Credits
Grading Scheme: Letter Grade
Cadastral systems, land boundaries, corners and areas; writing land descriptions and identification of land parcels; legal principles of boundary survey, office and business practices; professional standing.
Prerequisite: SUR 3103C or equivalent.

SUR 4430 Surveying and Mapping Practice 3 Credits
Grading Scheme: Letter Grade
Studies land survey practice: the lot survey, the sectional survery and the water boundary survery. Also includes office and business practices and professional standing.
Prerequisite: SUR 3520 and SUR 4403, or the equivalents.

SUR 4463 Subdivision Design 3 Credits
Grading Scheme: Letter Grade
Design a medium-sized subdivision, including the master plan development, physical development considerations, legal requirements, comprehensive project, mock presentation and platting.
Prerequisite: SUR 3323 or equivalent;
Corequisite: SUR 4201.

SUR 4501C Foundations of UAS Mapping 3 Credits
Grading Scheme: Letter Grade
Covers the fundamental components of small unmanned aerial systems (UASs) and how they are used to produce high resolution, spatially accurate, planimetric maps and 3-D models of the terrain.
Prerequisite: SUR 3103C or equivalent.

SUR 4530 Geodesy and Geodetic Positioning 3 Credits
Grading Scheme: Letter Grade
Introduces geometric and physical geodesy, ellipsoids, geodetic lines, computation or position, gravity and coordinate systems.
Prerequisite: SUR 3103C or equivalent.

SUR 4905 Special Problems in Geomatics 1-3 Credits
Grading Scheme: Letter Grade
Special problems or projects in the student's major field of study.

SUR 4911 Supervised Research in Geomatics 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in geomatics under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

SUR 4912 Senior Project 1 Credit
Grading Scheme: Letter Grade
Laboratory, equipment or literature investigations of surveying and mapping problems and concepts of current interest resulting in a written work.
Prerequisite: 4FY-GEM classification.

SUR 4915 Honors Thesis Research in Geomatics 0-3 Credits
Grading Scheme: S/U
Independent research in geomatics leading to an honors thesis; mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

SUR 4934 Topics in Geomatics 1-4 Credits
Grading Scheme: Letter Grade
Selected topics in geomatics, including special issues and in-depth study of topics not discussed in other courses.

SUR 4940C Practicum in UAS Mapping 3 Credits
Grading Scheme: Letter Grade
Provides hands-on experience with flight planning and safe deployment of small UASs (Unmanned Aerial Systems), and the subsequent processing of the imagery acquired on these flights.

SUR 4949 Co-op Work Experience 1 Credit
Grading Scheme: S/U
Practical field experience of sufficient academic rigor. (S-U)
Prerequisite: FY-GEM classification.

German | Languages, Literatures, and Cultures

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Courses

GER 1125 Discover German 1 5 Credits
Grading Scheme: Letter Grade
First semester of a two-semester sequence that includes Discover German 2. In this innovative online course, students acquire basic skills in the German language and use the Internet as a resource to explore aspects of German culture and everyday life.

GER 1126 Discover German 2 5 Credits
Grading Scheme: Letter Grade
Continuation of Discover German 1. Continue acquiring basic skills in the German language using the Internet to explore aspects of German culture and everyday life.
Prerequisite: GER 1125.

GER 1130 Beginning Intensive German 1 5 Credits
Grading Scheme: Letter Grade
The first semester of a two-semester sequence that includes Beginning Intensive German 2. Emphasis is on spoken German. Reading, writing and grammar are also included in the program. Communication in German is enhanced by the use of multimedia and regular meetings with tutors. Supervised homework and drill sessions in small groups.

GER 1131 Beginning Intensive German 2 5 Credits
Grading Scheme: Letter Grade
Continuation of Beginning Intensive German 1. Emphasis is on spoken German. Reading, writing and grammar are also included in the program. Communication in German is enhanced by the use of multimedia and regular meetings with tutors. Supervised homework and drill sessions in small groups.
Prerequisite: GER 1130 with minimum grade of C, or S, or the equivalent.

GER 2200 Intermediate German 1 3 Credits
Grading Scheme: Letter Grade
Participants will improve their skills in the four basic areas (reading, writing, listening comprehension, speaking) by reviewing elements of grammar, particularly morphology (i.e., word forms), and by expanding vocabulary. Upon successful completion, students may go directly to Advanced German.
Prerequisite: GER 1104 or GER 1126 or GER 1131, or the equivalent.

GER 2225 Online Intermediate German 3 Credits
Grading Scheme: Letter Grade
Employs web-based learning resources to develop B1-level proficiencies via the reinforcement of speaking and listening comprehension, reading, and writing skills, and an exploration of selected cultural topics. For self-starters who are comfortable and successful working individually and in groups in an online learning environment.
Prerequisite: (GER 1130 and GER 1131) or (GER 1125 and GER 1126) or (10 university-level credit hours of beginning German) or the equivalent.

GER 2240 Intermediate German 2 3 Credits
Grading Scheme: Letter Grade
Objectives include improving reading and speaking skills at the intermediate level. Upon completion participants will be able to pronounce German words more accurately, listen with greater comprehension to German and respond to questions about a variety of recorded texts. Upon successful completion, students may go directly to Advanced German.
Prerequisite: GER 1104 or GER 1126 or GER 1131, or the equivalent.

GER 2270 Intermediate German Abroad 3-9 Credits
Grading Scheme: Letter Grade
A review of the major aspects of grammar in a context that enhances understanding of German and aims at a level of proficiency above the A2 level of the Common European Framework of Reference for Languages.
Prerequisite: GER 1126 with a minimum grade of C.

GER 3234 Reading German Texts 3 Credits
Grading Scheme: Letter Grade
Upon completion, students will be able to read literary and nonliterary texts and to identify the more common syntactical, stylistic and rhetorical elements.
Prerequisite: GER 2200 or GER 2240.

GER 3300 Writing German Texts 3 Credits
Grading Scheme: Letter Grade
Special focus on strategies, grammar and vocabulary involved in writing in German. Works toward a writing proficiency level that corresponds to the B1 level as defined by the European Framework of Reference for Languages and measured by the Goethe Institute exam Zertifikay Deutsch.
Prerequisite: GER 2200 or GER 2270 with a minimum grade of C.

GER 3330 German Language and Culture 1 3 Credits
Grading Scheme: Letter Grade
Introduces German civilization through grammar review, vocabulary building, reading and essay writing. Upon completion, students will be able to discuss cultural and literary concepts in German. (H)
Prerequisite: GER 2200 or GER 2240.
Attributes: General Education - Humanities

GER 3332 Topics in German Film and Culture 1 Credit
Grading Scheme: Letter Grade
GER 3224 is taught as a FLAC accompaniment to various courses. A discussion forum covering different topics in German film and culture. All materials and class discussions will be in German.
Prerequisite: GER 1104 or GER 1126 or GER 1131, or equivalent, and one 2000-level GER course.

GER 3401 German Grammar Review 3 Credits
Grading Scheme: Letter Grade
An intensive semester-long review of German grammar.
Prerequisite: GER 2200 or GER 2240, or undergraduate coordinator permission.

GER 3413 German Listening, Comprehension and Speaking 3 Credits
Grading Scheme: Letter Grade
Develops the ability to understand and produce basic kinds of speech (descriptions, simple stories, etc.).
Prerequisite: GER 2200 or GER 2240, or instructor permission.

GER 3440 German in Business 3 Credits
Grading Scheme: Letter Grade
Study of Wirt-schaftsdeutsch and the ability to read and write texts in German for international business transactions. Acquire the ability to communicate in German in professional business settings. (N and S)
Prerequisite: GER 2200 or GER 2240.
Attributes: General Education - International, General Education - Social Science

GER 3470 Advanced German Abroad 3-9 Credits
Grading Scheme: Letter Grade
Practical, in-class communication exercises at an advanced level in comprehension, speaking, reading and writing. Prepares students to achieve a proficiency level above the B1 level as established by the Common European Framework for Languages.
Prerequisite: GER 2200 or GER 2270 with a minimum grade of C, or undergraduate coordinator permission.

GER 4482 Cultural Identity and Intercultural Competence 3 Credits
Grading Scheme: Letter Grade
Listening comprehension and speaking ability in work involving German cultural identity, online and in class.
Prerequisite: GER 3410 or instructor permission.

GER 4930 Variable Topics in German Studies 3 Credits
Grading Scheme: Letter Grade
Working with German media such as major newspapers, magazines, radio and television programs, students will refine their language skills to a level similar to the B2 level of the Common European Framework for Languages.
Prerequisite: GER 3401 with a minimum grade of C or 6 credits of coursework at the GER 3000-level.

GER 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

GET 2100 German Literary Heritage 3 Credits
Grading Scheme: Letter Grade
Knowledge of German is not required. Upon completion participants will be able to discuss major works of German literature, mainly from the 18th to the 20th century. Texts and lectures in English. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

GET 3003 German Culture and Civilization 1 3 Credits
Grading Scheme: Letter Grade
Knowledge of German is not required. Introduces German civilization from the earliest times to the beginning of the 19th century. Become acquainted with German literature, philosophy, art, music and architecture. Readings and discussions in English.

GET 3004 Modern German Culture and Civilization 3 Credits
Grading Scheme: Letter Grade
Knowledge of German is not required. Introduces German civilization in the 19th and 20th centuries. Participants will be able to discuss developments in German literature, philosophy, art, music and architecture. Texts and lectures in English.

GET 3200 Medieval Literary Culture 3 Credits
Grading Scheme: Letter Grade
Studies the German literary culture of the Holy Roman Empire during the Middle Ages in its broader European context. Examines literary culture in relation to Latin literary traditions, as well as to other cultural domains such as the arts, architecture, theology, and politics. (H) (WR)
Attributes: General Education - Humanities, Satisfies 4000 Words of Writing Requirement

GET 3201 Early Modern Literary Culture 3 Credits
Grading Scheme: Letter Grade
Studies the early modern literary culture of German-speaking regions of the Holy Roman Empire in the broader European context. Examines this culture?s relation to pan-European developments, including the Renaissance, Humanism, the Reformation, and developments in the arts, architecture, theology, and politics.
Prerequisite: sophomore standing or higher.

GET 3501 History, Literature and Arts of Berlin 3 Credits
Grading Scheme: Letter Grade
Gain a working knowledge of the history and culture of Berlin from 1871 to the present by exploring literature, painting, and film. Authors and artists include Mann, Brecht, Dix, and Wenders.

GET 3520 Early German Cinema: 1945 4 Credits
Grading Scheme: Letter Grade
Historical overview of the most influential films of German classical cinema, including how they relate to the social reality of the 1920s and 30s.

GET 3580 Representations of War in Literature and Visual Media 3 Credits
Grading Scheme: Letter Grade
Study of the shifting cultural representations of war (literature/art) in the 20th century, focusing primarily on European history, culture and politics. Primary sources include Mann, Remarque, Boll, Celan, Grosz, and Kiefer.

GET 3930 Variable Topics in German Studies 3-9 Credits
Grading Scheme: Letter Grade
Variable topics in German Studies in English translation.

GET 4521 Women and German Cinema 4 Credits
Grading Scheme: Letter Grade

GET 4523 New Cinema 1945 to the Present 4 Credits
Grading Scheme: Letter Grade

GET 4930 Variable Topics in German Studies 3-9 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in German studies, in English translation.
Prerequisite: 3 credits at 3000 level or above, or instructor permission.

GEW 3100 Survey of German Literature 1 3 Credits
Grading Scheme: Letter Grade
The major periods and works of German literature from the Middle Ages to the 18th century. Texts in German.
Prerequisite: instructor permission.

GEW 3101 Survey of German Literature 2 3 Credits
Grading Scheme: Letter Grade
The major periods of German literature from the 18th century to the present. Authors include Goethe, Kleist, Kafka, Mann, Grass, and Christa Wolf. Readings in German. (H)
Attributes: General Education - Humanities

GEW 3930 Variable Topics in German Studies 3-9 Credits
Grading Scheme: Letter Grade
Variable topics in German Studies.
Prerequisite: GER 2000 or instructor permission.

GEW 4301 Introduction to German Drama and Theater 3 Credits
Grading Scheme: Letter Grade
Survey of German drama from the late medieval period to the present. Introduction to major forms, periods and authors such as Lessing, Goethe, Schiller, and Brecht. (H)
Prerequisite: GEW 3100 and GEW 3101, or the equivalent.
Attributes: General Education - Humanities

GEW 4400 Medieval Studies in German 3 Credits
Grading Scheme: Letter Grade
Read some shorter verse narratives dealing with love and chivalric adventures in the original language of the German Middle Ages (ca. 1200). In conjunction with this reading, students will learn some of the basic features of the poetic idiom (Middle High German) as well as some of the issues and problems involved in the production, transmission and editing of medieval manuscripts. (H)
Prerequisite: GEW 3100 and GEW 3101.
Attributes: General Education - Humanities

GEW 4401 German Cities as Cultural Centers 3 Credits
Grading Scheme: Letter Grade
Study of German, Austrian, and Swiss cities as cultural centers. Employs online learning resources to expand knowledge of urban cultures in German-speaking Europe and to develop linguistic and cultural proficiency toward the B2 level according to CEFR standards.
Prerequisite: GER 3401 or instructor permission.

GEW 4730 Modern German Literature 3 Credits
Grading Scheme: Letter Grade
The major trends of German literature in the first half of the 20th century, including impressionism, expressionism, Neue Sachlichkeit, workers literature and Nazi culture. Works by Thomas Mann, Hermann Hesse and Bertolt Brecht are discussed. (H)
Prerequisite: GEW 3100 and GEW 3101.
Attributes: General Education - Humanities

GEW 4731 Contemporary German Literature 3 Credits
Grading Scheme: Letter Grade
Participants will learn to discern the major trends of post WW II German literature. Students will be able to recognize the key features of works by such German authors as Bll, Grass, Weiss and Wolf, and by such Swiss and Austrian writers as Frisch, Drrenmatt and Handke. (H)
Prerequisite: GEW 3100 and GEW 3101.
Attributes: General Education - Humanities

GEW 4750 Women in German Literature 3 Credits
Grading Scheme: Letter Grade
The image of women in representative works of German literature. Study of the main themes and structures in selected works by major women writers of German-speaking countries and their unique contribution to German culture and literature. Students will use an interdisciplinary approach to literature and will learn the basic tools of gender studies. (H)
Prerequisite: any two 3000-level courses.
Attributes: General Education - Humanities

GEW 4760 Ethnic Writing in Germany 3 Credits
Grading Scheme: Letter Grade
Writings (prose, poetry, critical essays) of significant authors of non-German descent (i.e., Spaniards, Italians, Turks, Iranians) from the 1950s to the present. Insights into the lives and thinking of significant ethnic minorities in Germany during this period and the implications for German literary history and German identity. Films are also screened and discussed.
Prerequisite: GER 3234 or instructor permission.

GEW 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course. Available only by special arrangement.

GEW 4911 Undergraduate Research in German 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in German. Projects may involve inquiry, design, investigation, scholarship, discovery or application in German.

GEW 4930 Seminar in Germanic Languages and Literatures 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in Germanic language or literature. (H)
Prerequisite: any two 3000-level courses or instructor permission.
Attributes: General Education - Humanities

MEM 2500 The Tales of King Arthur 3 Credits
Grading Scheme: Letter Grade
The great literary works of the Arthurian tradition and the manner in which the tales of King Arthur serve, from their 6th century Celtic origins to the present, to articulate the interests and values of different social groups throughout history. (H and N)
Attributes: General Education - Humanities, General Education - International

MEM 3300 Castles and Cloisters: An Introduction to Medieval Communities 3 Credits
Grading Scheme: Letter Grade
Studies monastic and courtly-chivalric communities as these evolved in the Middle Ages. Explores architecture, art, literature and music illustrate how different monastic and chivalric communities saw the world and their place in it. (H and N)
Attributes: General Education - Humanities, General Education - International

Greek Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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GMT 4911 Undergraduate Research in Modern Greek Language and Literature 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

GRE 1120 Beginning Ancient Greek 1 4 Credits
Grading Scheme: Letter Grade
The basics of ancient Greek grammar, morphology, syntax and vocabulary.

GRE 1121 Beginning Ancient Greek 2 4 Credits
Grading Scheme: Letter Grade
The basics of ancient Greek grammar, morphology, syntax and translation, with special attention to irregular verbs.
Prerequisite: GRE 1120 or GRE 1130.

GRE 1130 Accelerated Beginning Ancient Greek 1 5 Credits
Grading Scheme: Letter Grade
This course and its sequel, GRE 1131, constitute the basic sequence for development of overall skill in the language.

GRE 1131 Accelerated Beginning Ancient Greek 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence for development of overall skill in the language.
Prerequisite: GRE 1130 or the equivalent.

GRK 1130 Beginning Modern Greek 1 5 Credits
Grading Scheme: Letter Grade
This course and its sequel, GRK 1131, constitute the basic sequence for development of overall skill in the language.

GRK 1131 Beginning Modern Greek 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence for development of overall skill in the language.
Prerequisite: GRK 1130 or the equivalent.

GRK 2200 Intermediate Modern Greek 1 3 Credits
Grading Scheme: Letter Grade
Readings in modern Greek literature, history and culture. (H and N)
Prerequisite: GRK 1131 or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRK 2201 Intermediate Modern Greek 2 3 Credits
Grading Scheme: Letter Grade
Additional readings in modern Greek literature, history and culture. (H and N)
Prerequisite: GRK 2200 or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRK 4300 Modern Greek Literature Since 1830 3 Credits
Grading Scheme: Letter Grade
Advanced study of representative modern Greek prose, poetry and drama in the original from independence (1830) to the present. The course combines the study of the modern Greek language with readings, analysis and discussion of major literary works.
Prerequisite: GRK 2201 or the equivalent.

GRK 4905 Individual Work in Modern Greek 1-4 Credits
Grading Scheme: Letter Grade
For advanced students who seek independent work not offered in another course. Must be arranged individually with Greek faculty.
Prerequisite: GRK 1131.

GRW 2211 Intermediate Greek Prose 3 Credits
Grading Scheme: Letter Grade
Readings selected from Attic Greek prose authors designed to aid students in the transition from grammar to connected prose passages.
Prerequisite: GRE 1121 or GRE 1131 or the equivalent.

GRW 2240 New Testament Greek 3 Credits
Grading Scheme: Letter Grade
Reviews grammar and forms. Readings from several books of the New Testament. (H and N)
Prerequisite: some knowledge of Greek and instructor permission.
Attributes: General Education - Humanities, General Education - International

GRW 3102 Survey of Greek Literature 2 3 Credits
Grading Scheme: Letter Grade
Studies representative texts from various periods of Greek literature. (H and N)
Attributes: General Education - Humanities, General Education - International

GRW 3301 Greek Drama 3 Credits
Grading Scheme: Letter Grade
Selected plays of Aeschylus, Sophocles or Euripides.
Prerequisite: one 2000-level Greek course or the equivalent.

GRW 3501 Plato 3 Credits
Grading Scheme: Letter Grade
Studies Plato's Meno and Apology. (H and N)
Prerequisite: GRE 1131 or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRW 4330 Greek Lyric Poetry 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of Greek lyric poetry, from Archilochus to Bacchylides. (H and N)
Prerequisite: two 3000-level Greek courses or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRW 4340 Homer and Greek Epic 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of selections from Homer's Iliad and Odyssey. (H and N)
Prerequisite: two 3000-level Greek courses or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRW 4380 Greek Historians 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of selections of Herodotus, Thucydides, Xenophon and Plutarch. (H and N)
Prerequisite: two 3000-level Greek courses or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRW 4700 Greek Orators 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of selections from Lysias, Demosthenes and Isocrates. (H and N)
Prerequisite: two 3000-level Greek courses or the equivalent.
Attributes: General Education - Humanities, General Education - International

GRW 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
Reading, conference and reports.
Prerequisite: GRE 1131 or the equivalent.

GRW 4911 Undergraduate Research in Greek Language and Literature 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

GRW 4930 Studies in Greek Literature 3 Credits
Grading Scheme: Letter Grade
Advanced study of a particular author, genre, period or subject.
Prerequisite: one 3000-level course in ancient Greek.

LIT 2000 Introduction to Literature 3 Credits
Grading Scheme: Letter Grade
Examines the important role literature has played in individuals' lives and in society, presenting a range of literary styles and genres, from different countries and historical periods. Special attention paid to development of critical skills of analysis and interpretation. (H)
Prerequisite: ENC 1101
Attributes: General Education - Humanities

Haitian Creole | Languages, Literatures, and Cultures

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More Info (http://registrar.ufl.edu/soc)

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Courses

HAI 1130 Beginning Haitian Creole 1 5 Credits
Grading Scheme: Letter Grade
HAI 1130 and its sequel, HAI 1131, constitute the basic sequence for development of conversational skills and grammar essentials in the language.
Prerequisite: bilingual students are encouraged to speak to the instructor as they may be able to enter directly into HAI 1131 to satisfy their foreign language requirement.

HAI 1131 Beginning Haitian Creole 2 5 Credits
Grading Scheme: Letter Grade
Second part of the basic Haitian Creole sequence for development of conversational skills and grammar essentials in the language.
Prerequisite: HAI 1130 or the equivalent.

HAI 2200 Intermediate Haitian Creole 1 3 Credits
Grading Scheme: Letter Grade
Concentrates on conversation and readings and provides an introduction to Haitian culture through music and film.
Prerequisite: HAI 1131 or the equivalent.

HAI 2201 Intermediate Haitian Creole 2 3 Credits
Grading Scheme: Letter Grade
Continued concentration on conversation with added emphasis on reading and perspectives on issues related to the Haitian way of living.

HAI 3930 Haitian Culture and Society 3 Credits
Grading Scheme: Letter Grade
Central aspects of history, politics, environment and development are addressed, including gender relations, medicine, education, work, race and class. No knowledge of Haitian Creole is required.

HAI 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course. Must be arranged individually with Haitian faculty.
Prerequisite: department permission.

HAI 4911 Undergraduate Research in Language, Linguistics, Literature, Culture in Some Combination of English, 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in language, linguistics, literature, culture in some combination of English, Haitian, Creole, or French. Projects may involve inquiry, design, investigation, scholarship, discovery or application.

HAT 3503 Haitian Culture and Literature in Translation 3 Credits
Grading Scheme: Letter Grade
Examines representations of Haiti and its culture through Haitian literature, art, film, and music.
Attributes: General Education - Humanities, General Education - International

HAT 3564 Haitian Culture and Society 3 Credits
Grading Scheme: Letter Grade
Central aspects of history, politics, environment and development are addressed, including attention to gender relations, medicine, education, work, race and class. No knowledge of Haitian Creole is required. (H and N OR S and N) (WR)
Attributes: General Education - Humanities, General Education - International, General Education - Social Science, Satisfies 2000 Words of Writing Requirement

HAT 3700 Introduction to Haitian Creole Linguistics 3 Credits
Grading Scheme: Letter Grade
Class examines the major sub-fields of linguistics by means of the Haitian Creole language. Haitian Creole syntax, morphology, phonology, semantics and lexicon are introduced in addition to sociolinguistics, dialectology, language planning, bilingualism and language contact. (H and N OR H and D) (WR)
Attributes: General Education - Diversity, General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

HAT 4911 Undergraduate Research in Language, Linguistics, Literature, Culture in Some Combination of English, 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

JMT 3500 Jamaican Creole, Reggae, and Rastafari 3 Credits
Grading Scheme: Letter Grade
Studies Jamaican Creole, reggae music, and Rastafari religion and culture; introduces the language, music, and religion of the Caribbean island. Methodology includes linguistics, ethnomusicology, and religious studies to read Jamaican Creole, interpret reggae songs, and analyze the Rastafari culture to which they link.
Prerequisite: Sophomore standing or LAS 2001 Introduction to Latin American Studies or AFH 2000 Africa in World History or AFA 2000 Introduction to African-American Studies or REL 2000 Introduction to Religion
Attributes: General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

Health Education and Behavior

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

APK 4940C Internship 12 Credits
Grading Scheme: S/U
Internship in applied physiology and kinesiology. (S-U)
Prerequisite: department permission.

HLP 4933 Variable International Topics 1-6 Credits
Grading Scheme: Letter Grade
Provides the opportunity to study in a wide range of cultural settings.

HSC 3032 Foundations of Health Education 3 Credits
Grading Scheme: Letter Grade
Theory and practice in the health education profession.
Prerequisite: APK 2100C, APK 2105C, PSY 2012, STA 2023, and (MAC 1105 or MAC 1140 or MAC 1147 or MAC 2311); Health education and behavior majors, junior or senior standing only.

HSC 3102 Personal and Family Health 3 Credits
Grading Scheme: Letter Grade
Surveys personal health concerns: emotional health; aging and death; alcohol, tobacco and drug abuse; physical fitness; nutrition and dieting; consumer health; chronic and communicable diseases; human sexuality; and environmental health. (S)
Attributes: General Education - Social Science

HSC 3201 Community and Environmental Health 3 Credits
Grading Scheme: Letter Grade
Surveys community health organizations and contemporary health issues such as population growth, environment, poverty, medical care and disease.
Prerequisite: HSC 3032 with a minimum grade of C; Health education and behavior majors, junior or senior standing only.

HSC 3301 Health Education in Elementary Schools 3 Credits
Grading Scheme: Letter Grade
Development of comprehensive health education programs in grades K-5, subject matter selection, curriculum planning, lesson and unit planning, and innovative approaches to health instruction.
Prerequisite: Health education and behavior majors and junior/senior/graduate standing.

HSC 3537 Health and Medical Terminology 3 Credits
Grading Scheme: Letter Grade
Develops a working knowledge of terminology related to the human body in health and disease through descriptive definitions, practical applications, understanding word roots, combinations and medical abbreviations.

HSC 4133 Human Sexuality Education 3 Credits
Grading Scheme: Letter Grade
Emphasizes content, issues, methodology and materials for the study of human sexuality. Prepares students to educate individuals and groups.
Prerequisite: Health education and behavior majors, junior or senior standing.

HSC 4134 Emotional Health and Counseling 3 Credits
Grading Scheme: Letter Grade
Introduces theories of emotional well-being and health education, and the means of incorporating positive mental health practices into the health education programming and health counseling.
Prerequisite: Health education and behavior majors, junior or senior standing.

HSC 4143 Drug Education 3 Credits
Grading Scheme: Letter Grade
Broad view of the elements of drug use and abuse, such as individual behavior, environmental factors and drugs. Drug taking is approached in a factual stance; i.e., what has been documented to date, so that participants can separate speculation and bias from fact. The emphasis is also placed on methods pertaining to the preventive aspects of drug use and abuse.
Prerequisite: APK 2105C or (BSC 2086 and BSC 2086L) or (BSC 2094 and BSC 2094L) with minimum grades of C; Health education and behavior majors, junior or senior standing only.

HSC 4174 Behavioral and Environmental Determinants of Obesity 3 Credits
Grading Scheme: Letter Grade
Explores interactions among individual, behavioral and environmental determinants of obesity. Focuses on the extent of the obesity problem primarily in the US from an epidemiological perspective. Ideas for prevention and control are discussed along with effective interventions to address obesity (policy development and implementation).
Prerequisite: Health education and behavior majors, junior or senior standing.

HSC 4232C Exercise Therapy, Adapted Physical Activity and Health 3 Credits
Grading Scheme: Letter Grade
Art and science of teaching exercise therapy effectively, including adapted physical activities and healthy living strategies. Presents medical and health characteristics of common disabilities and methods for prescribing appropriate exercise therapy programs. Also presents multiple adapted-equipment ideas to facilitate teaching in inclusive settings for all ages. Clinical experience with individuals with disabilities. (S and D)
Prerequisite: Health education and behavior or applied physiology and kinesiology - fitness/wellness majors, and junior or senior standing.
Attributes: General Education - Diversity, General Education - Social Science

HSC 4233 Patient Health Education 3 Credits
Grading Scheme: Letter Grade
Introduces theories that apply to the practice of patient education in a variety of health care settings. Emphasizes placed on education for health promotion and lifestyle changes. Additionally, provides an overview of the U.S. health care industry.
Prerequisite: Health education and behavior or applied physiology and kinesiology - fitness/wellness majors, and junior or senior standing.

HSC 4302 Methods and Materials in Health Education 3 Credits
Grading Scheme: Letter Grade
Fundamental strategies for health science education including conceptualizing instruction, specifying instructional objectives, and planning units and lessons using various instructional methods, selecting and using instructional materials, and evaluating the effectiveness of health instruction in school and community settings.
Prerequisite: HSC 3032 with minimum grade of C and Health education and behavior majors, senior standing; must be taken the fall or spring semester prior to HEB internship.

HSC 4450 Driver and Traffic Safety Education 1 3 Credits
Grading Scheme: Letter Grade
Analyzes driver and traffic safety problems; training for efficient motor vehicle operation through experience with simulators, dual control cars and multiple car driving range.
Prerequisite: junior or senior standing and a state driver's license.

HSC 4451 Driver and Traffic Safety Education 2 3 Credits
Grading Scheme: Letter Grade
Organization, administration and teaching techniques of driver education for public high schools, including student teaching.
Corequisite: HSC 4450.

HSC 4564 Health Promotion in Gerontology 3 Credits
Grading Scheme: Letter Grade
Addresses the dimensions of healthy aging. Examines the relevance of behavior change theory with older adults and provides specific tools to design and implement health programs with older adults.
Prerequisite: HSC 3032 with a minimum grade of C and Health education and behavior majors, junior or senior standing.

HSC 4574 Nutrition Education for Special Populations 3 Credits
Grading Scheme: Letter Grade
Development of nutrition education programs for selected population groups. Emphasizes educational techniques utilized to inform special populations of changing nutritional needs. Discusses population groups such as ethnic minorities, the elderly, the pregnant female and the athlete.
Prerequisite: HSC 3032 and HUN 2201 or equivalent, with minimum grades of C; Health education and behavior majors, junior or senior standing.

HSC 4579 Women's Health Issues 3 Credits
Grading Scheme: Letter Grade
Women and men experience similar diseases, disorders, and causes of death, but women often experience these in different forms and at different stages in life. Explores current womens health issues, and covers a broad range of health issues of special importance to women.
Prerequisite: Health education and behavior or applied physiology and kinesiology - fitness/wellness majors, and junior or senior standing.

HSC 4593 HIV/AIDS Education 3 Credits
Grading Scheme: Letter Grade
Seminar examines the medical, social, legal and educational implications of HIV/AIDS on individuals and society. Includes lectures, guest and student presentations, videos and student-initiated discussions. Local, state and national experts in the fields of medicine, epidemiology, law, education and health promotion provide lectures.
Prerequisite: Health education and behavior majors and junior or senior standing.

HSC 4623 Minority Health Issues 3 Credits
Grading Scheme: Letter Grade
Addresses health issues confronting politically and socioeconomically disadvantaged groups and ethnic minority groups in America. Not intended to be a comprehensive treatment of all pertinent health problems affecting minorities, but does address some of the more salient health concerns.
Prerequisite: Health education and behavior majors and junior or senior standing.

HSC 4624 Trends in International Health 3 Credits
Grading Scheme: Letter Grade
Overview of problems and practices in international health including disease patterns and prevalence, contributing factors, organizational and government initiatives and model programs with special emphasis on problems amenable to health education interventions. (S and N)
Prerequisite: Health education and behavior majors and junior or senior standing.
Attributes: General Education - International, General Education - Social Science

HSC 4663 Community Health Methods in Injury Prevention and Control 3 Credits
Grading Scheme: Letter Grade
Introduces current theory and knowledge in the field of unintentional injury prevention; prepares students to critically analyze current intervention strategies and explores new directions for unintentional injury prevention and control. Topics include the importance of injury as a problem, historical and conceptual underpinnings of injury prevention, epidemiology of injury, mechanisms of injury, basic concepts of injury prevention, the role of the law in injury prevention and the role if injury surveillance on unintentional injuries.
Prerequisite: Health education and behavior majors and junior or senior standing.

HSC 4664 Health Communication for Consumers 3 Credits
Grading Scheme: Letter Grade
Health communication processes and practices for health consumers and health professionals who facilitate health consumers. (WR)
Prerequisite: HSC 3032 with a minimum grade of C and Health education and behavior majors, junior or senior standing.
Attributes: Satisfies 6000 Words of Writing Requirement

HSC 4694 Worksite Health Promotion 3 Credits
Grading Scheme: Letter Grade
Considerations in planning, implementing and evaluating comprehensive health education and health promotion programs at the worksite including health risk appraisal, program design and special educational strategies appropriate for the occupational setting.
Prerequisite: HSC 3032 with a minimum grade of C and Health education and behavior majors, junior or senior standing.

HSC 4713 Planning and Evaluating Health Education Programs 3 Credits
Grading Scheme: Letter Grade
Frameworks, principles and strategies for planning, implementing and evaluating health promotion interventions.
Prerequisite: HSC 3032 with a minimum grade of C and Health education and behavior majors, junior or senior standing.

HSC 4800 Health Education Professional Development 3 Credits
Grading Scheme: Letter Grade
Review and discussion of the health education field, including career opportunities, department policies for health education internship selection and registration, professional development information and preparation for future employment and/or graduate coursework in the health education field.
Prerequisite: HSC 3032 with minimum grade of C and Health education and behavior majors, senior standing; must be taken the fall or spring semester prior to HEB internship.

HSC 4813 Practicum in Health Education 1-3 Credits
Grading Scheme: S/U
Health education practicum. (S-U)
Prerequisite: Health education major.

HSC 4876 Internship in Health Education 1-16 Credits
Grading Scheme: Letter Grade
Health education internship.
Prerequisite: HSC 3032 and HSC 4800 with minimum grades of C and 4HH-Health education and behavior majors.

HSC 4905 Individual Study 1-4 Credits
Grading Scheme: Letter Grade
Supervised program of study to investigate problems significant to health professions.
Prerequisite: HSC 3032 with minimum grade of C and Health education and behavior majors, junior or senior standing; faculty member or program coordinator permission.

HSC 4910 Supervised Research Experience 1-3 Credits
Grading Scheme: S/U
Explores an area of interest in health research or the delivery and/or administration of health services through first-hand, supervised research experience.
Prerequisite: HSC 3032 with minimum grade of C and Health education and behavior majors, junior or senior standing; faculty member or program coordinator permission.

HSC 4912 Undergraduate Research 0-5 Credits
Grading Scheme: S/U
Provides health education and behavior undergraduates the opportunity to engage in supervised research. For this purpose, research is defined as an independent or team participatory experience that provides an opportunity to systematically investigate an existing or emerging health problem and to communicate the results of their work to others. (S-U)

HSC 4950 Current Topics in Health Education 3 Credits
Grading Scheme: Letter Grade
Variable topics in health education.
Prerequisite: Health education and behavior majors and junior or senior standing.

PET 4905C Variable Topics in Exercise and Sport Sciences 1-5 Credits
Grading Scheme: Letter Grade
Offered upon request to meet students' special interests that are not adequately provided in other courses.
Prerequisite: department chair permission.

PET 4948C Practicum in Exercise and Sport Sciences 1-5 Credits
Grading Scheme: Letter Grade
Practical experience in such specialty areas as adult fitness programs, health clubs, exercise testing laboratories, clinical laboratories and athletic training rooms. May include senior thesis with oral defense.
Prerequisite: department chair permission.

Health Professions

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Courses

HSC 2000 Introduction to Health Professions 3 Credits
Grading Scheme: Letter Grade
Lecture, discussion and group assignments provide the opportunity to learn about different disciplines making up a health care team and their role in both the science and practice of health care.

HSC 4008 Professional Development for the Health Sciences 1 Credit
Grading Scheme: S/U
Fosters the professional development needed to transition into the health and public health professions. Enrichment activities include diversity training, presentation skills training, career planning, and developing an online portfolio. (S-U)
Prerequisite: PHHP senior in the limited-access program.

HSC 4905 Individual Study 1-4 Credits
Grading Scheme: Letter Grade
Supervised program of study to investigate problems significant to health professions.
Prerequisite: HSC 3032 with minimum grade of C and Health education and behavior majors, junior or senior standing; faculty member or program coordinator permission.

HSC 4910 Supervised Research Experience 1-3 Credits
Grading Scheme: S/U
Explores an area of interest in health research or the delivery and/or administration of health services through first-hand, supervised research experience.
Prerequisite: HSC 3032 with minimum grade of C and Health education and behavior majors, junior or senior standing; faculty member or program coordinator permission.

HSC 4930 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Special topics in health science. Please refer to the department for specific course information. Can be repeated with change in content up to 12 credits.

HSC 4969 Honors Seminar in the Health Professions 1-3 Credits
Grading Scheme: Letter Grade
Philosophy and implementation of scientific work, including an introduction to faculty research. Provides the opportunity to explore and discuss potential honors thesis topics.
Prerequisite: 3.5 GPA, majors only and department permission.

HSC 4970 Public Health and Health Professions Senior Honors Thesis 1-6 Credits
Grading Scheme: Letter Grade
Special project leading to the distinction of magna or summa cum laude at graduation. The project can be any creative work that focuses on a specific topic or issue in the health professions. The student develops an outline of the special project prior to project initiation and produces a final paper at project completion. The paper must be approved by the program and dean's office for the student to graduate magna or summa cum laude.
Prerequisite: HSC 4969, senior standing, majors only and a 3.75 GPA.

PHC 4101 Public Health Concepts 3 Credits
Grading Scheme: Letter Grade
Introduces the basic tenets, applications and foci of public health, including integrating public health with other health professions.
Prerequisite: (BSC 2007 or BSC 2005 or BSC 2010) and PSY 2012 and STA 2023.

PHC 4320 Environmental Concepts in Public Health 3 Credits
Grading Scheme: Letter Grade
Surveys major environmental health topics by examining sources, routes, media, and health outcomes associated with biological, chemical, and physical agents in the environment. Introduces the economic and legal frameworks associated with environmental health issues and public health.
Prerequisite: PHC 4101.

PHC 4930 Special Topics in Public Health 1-6 Credits
Grading Scheme: S/U
Exploration of a general or a specific area of public health.
Prerequisite: junior or senior standing.

Health Science

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Courses

HSA 3111 U.S. Health Care System 3 Credits
Grading Scheme: Letter Grade
Overview of organization, delivery and financing of health services in the U.S. Topics include health professionals, health care facilities, financing of health services, managed care and current health policy issues.
Prerequisite: (BSC 2007 or BSC 2005 or BSC 2010) and PSY 2012 and STA 2023 and (health science or communication sciences and disorders or public health majors or health science or public health minors).

HSA 4110 Healthcare Operations Concepts 3 Credits
Grading Scheme: Letter Grade
Covers several relevant topics related to the business end of healthcare, including business management principles for practitioners, healthcare reimbursement methodologies, and basic healthcare financial management such as simple budgeting and debt financing.

HSA 4191 Health Informatics & Emerging Healthcare Technologies 3 Credits
Grading Scheme: Letter Grade
Provides a fundamental understanding health informatics, healthcare information systems, and emerging healthcare technologies, starting with the core informatics competencies and the foundation of knowledge model.

HSC 3057 Research Methods and Issues in Health Science 3 Credits
Grading Scheme: Letter Grade
Emphasizes four aspects of research: understanding research principles, evaluating journal articles, applying research findings to clinical settings and designing programmatic evaluation projects.
Prerequisite: HSC 3502 and health science majors/minors only.

HSC 3502 Survey of Diseases and Disability 3 Credits
Grading Scheme: Letter Grade
Overview of medical and psychosocial aspects of chronic diseases and disability.
Prerequisite: health science or communication sciences and disorders majors or health science minor.

HSC 3661 Therapeutic Communication Skills with Patients, Families and the Health Care Team 2 Credits
Grading Scheme: Letter Grade
Learn appropriate verbal and nonverbal behavior to be used with patients, families and the health care team through lecture, discussion and role play in large and small groups.
Prerequisite: HSA 3111 and HSC 3502 and HSC 4558 and Health Science major.
Corequisite: RCS 4415L.

HSC 3801 Clinical Observation / Health Care Volunteer Work 1-4 Credits
Grading Scheme: S/U
Learn about a specific health care field or gain knowledge about specific patient or client populations through direct observation and/or hands-on assistance. (S-U)
Prerequisite: health science majors only and department permission.

HSC 4184 Health Care Leadership: Skills and Styles 3 Credits
Grading Scheme: Letter Grade
Behavioral styles that contribute to leadership effectiveness. Studies specific styles for their contributions to motivating people and overall leadership effectiveness in health care.
Prerequisite: HSA 3111 and HSC 3502 and HSC 4558 and Health Science major.

HSC 4558 Survey of Diseases and Disabilities 2 3 Credits
Grading Scheme: Letter Grade
Overview of medical and psychosocial aspects of chronic diseases, including issues of disability management. This required course, combined with HSC 3502, covers all of the major disabling conditions.
Prerequisite: HSC 3502; Health Science, Public Health, Communication Sciences and Disorders majors/minors only

HSC 4608L Critical Thinking in Health Care 4 Credits
Grading Scheme: Letter Grade
Develops critical thinking skills to solve problems in the health care environment.
Prerequisite: HSA 3111 and HSC 3502 and HSC 4558, and HSC 3661 and Health Science major.

HSC 4652L Ethical and Legal Issues in the Health Professions 3 Credits
Grading Scheme: Letter Grade
Overview of ethical and legal issues in the health professions, including contemporary ethical issues in disease management.
Prerequisite: HSA 3111 and HSC 3502 and HSC 4558 and Health Science major.

HSC 4930 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Special topics in health science. Please refer to the department for specific course information. Can be repeated with change in content up to 12 credits.

OTH 3416 Pathophysiology 3 Credits
Grading Scheme: Letter Grade
Basic understanding of pathophysiology as a change from normal physiological functioning of the various systems of the human body.
Prerequisite: APK 2105C, HSA 3111, HSC 3502, and health science majors/minors only, or instructor permission.

PHC 2100 Introduction to Public Health 3 Credits
Grading Scheme: Letter Grade
Overview of public health as a multifaceted field. Includes discussion of contemporary public health challenges with input from discipline experts.

PHC 3440 Global Public Health 3 Credits
Grading Scheme: Letter Grade
Critical links between global health and social and economic development. Discusses the burden of disease and how to measure this across countries. Focuses on low and middle income countries and the health of the poor.
Prerequisite: PHC 4101 and junior standing.

PHC 4024 Applied Epidemiology 3 Credits
Grading Scheme: Letter Grade
Principles and methods of epidemiological investigation focusing on both infectious and noninfectious diseases. Emphasizes outbreak investigations, field epidemiology and epidemiology careers.
Prerequisite: HSC 3057, HSC 3502, HSC 4558, PHC 4101, and Health Science and Public Health majors/minors only.

PHC 4094 Introduction to Biostatistics for Health Science and Public Health 3 Credits
Grading Scheme: Letter Grade
Methods and public health applications for analysis of variance, correlation, simple linear regression, multiple linear regression, nonparametric and distribution-free statistical methods, and some basic concepts about survival analysis. Public health applications using statistical software. Writing data analysis reports.
Prerequisite: STA 2023.

PHC 4101 Public Health Concepts 3 Credits
Grading Scheme: Letter Grade
Introduces the basic tenets, applications and foci of public health, including integrating public health with other health professions.
Prerequisite: (BSC 2007 or BSC 2005 or BSC 2010) and PSY 2012 and STA 2023.

PHC 4117 Public Health Management Leadership 3 Credits
Grading Scheme: Letter Grade
Provides knowledge relevant to leading public health organizations while effectively managing and motivating employees. Includes organizational behavior and theories to examine management, leadership and application of skills in delivering public health programs.
Prerequisite: HSA 3111, HSC 3502, HSC 4558, PHC 4101, and public health majors only.

PHC 4943 Service Learning Practicum 3 Credits
Grading Scheme: Letter Grade
Covers development of the role of a public health and human services provider in an agency setting.
Prerequisite: HSC 3057, PHC 4101, senior standing, and public health majors only.

Hebrew | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

HBR 1130 Beginning Modern Hebrew 1 5 Credits
Grading Scheme: Letter Grade
Beginning Hebrew covers four skills: listening, speaking, reading, and writing. For those with no prior exposure to the language.

HBR 1131 Beginning Modern Hebrew 2 5 Credits
Grading Scheme: Letter Grade
Continues beginning Hebrew, covering four skills: listening, speaking, reading, and writing.
Prerequisite: HBR 1130 with minimum grade of C or S, or the equivalent.

HBR 2220 Intermediate Modern Hebrew 1 4 Credits
Grading Scheme: Letter Grade
Intermediate Hebrew study covers four skills: listening, speaking, reading, and writing with new vocabulary and grammar.
Prerequisite: HBR 1131 with minimum grade of C or S, or the equivalent.

HBR 2221 Intermediate Modern Hebrew 2 4 Credits
Grading Scheme: Letter Grade
Continues intermediate Hebrew covering four skills: listening, speaking, reading, and writing.
Prerequisite: HBR 2220 with minimum grade of C or S, or the equivalent.

HBR 3410 Advanced Modern Hebrew 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills: listening, speaking, reading, and writing with attention to more complex structures. (H and N)
Prerequisite: HBR 2220 or HBR 2133 with minimum grade of C or S, or the equivalent.
Attributes: General Education - Humanities, General Education - International

HBR 3411 Advanced Modern Hebrew 2 3 Credits
Grading Scheme: Letter Grade
Continues advanced Hebrew study of the four skills: listening, speaking, reading, and writing with attention to more complex structures. (H and N)
Prerequisite: HBR 3410 with minimum grade of C or S, or the equivalent.
Attributes: General Education - Humanities, General Education - International

HBR 3412 Hebrew News and Media 3 Credits
Grading Scheme: Letter Grade

HBR 4905 Individual Work 1-5 Credits
Grading Scheme: Letter Grade
Individual work on an approved topic.
Prerequisite: refer to the department.

HBR 4930 Special Topics 3 Credits
Grading Scheme: Letter Grade
Proseminar of variable content providing an opportunity for in-depth study of special topics in Israeli literature, history, or culture.

HBR 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

HBT 3100 Introduction to Israeli Culture 3 Credits
Grading Scheme: Letter Grade
Presentation and analysis of some key facets of Israeli culture. Topics include Jewish vs. Zionist (and Israeli non-Jewish) identities, Israeli-Palestinian conflict, Israeli-American relations, gender, and function of art in Israeli society.
Prerequisite: HBR 1130 or sophomore standing.

HBT 3223 Identity and Dissent in the Hebrew Short Story 3 Credits
Grading Scheme: Letter Grade
Traces the tension between the individual and the collective in Zionist/Israeli society over the last 100-plus years as illustrated in Hebrew short fiction.

HBT 3233 Israeli History and the Contemporary Novel 3 Credits
Grading Scheme: Letter Grade
Studies Israeli history through the lens of the contemporary novel.
Attributes: General Education - Humanities

HBT 3563 Women in Modern Hebrew Fiction 3 Credits
Grading Scheme: Letter Grade
Depictions of women in 20th century Hebrew fiction.

HBT 3564 Motherhood in Modern Hebrew Literature 3 Credits
Grading Scheme: Letter Grade
Applied feminist theories regarding motherhood to the field of modern Hebrew literature.

HMW 4200 Readings in Modern Hebrew Literature 1 3 Credits
Grading Scheme: Letter Grade
Readings in modern Hebrew novels, short fiction and poetry. While the study of literature is emphasized, some language work is presented to help with reading comprehension. Texts and instruction are in Hebrew.
Prerequisite: HBR 3411 or equivalent.

HMW 4201 Readings in Modern Hebrew Literature 2 3 Credits
Grading Scheme: Letter Grade
Readings in modern Hebrew texts, including recently published stories and poems. Class is instructed in Hebrew.
Prerequisite: HMW 4200 or equivalent.

Hindi-Urdu | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

HIN 1130 Beginning Hindi 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering reading, writing, listening, and speaking with emphasis on acquisition of devanagari script.

HIN 1131 Beginning Hindi 2 5 Credits
Grading Scheme: Letter Grade
Continued study with emphasis on grammar and vocabulary essential to basic communicative functions.
Prerequisite: HIN 1130 with minimum grade of C, or the equivalent, or instructor permission.

HIN 2200 Intermediate Hindi 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: HIN 1131 or equivalent, or instructor permission.

HIN 2201 Intermediate Hindi 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study.
Prerequisite: HIN 2200 or equivalent, or instructor permission.

HIN 4930 Special Topics in Hindi-Urdu 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in and in-depth study of prose or poetic genres in Hindi and/or Urdu. Supplementary critical readings in English.
Prerequisite: HIN 2201 or equivalent, or instructor permission.

History

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AFH 2000 Africa in World History 3 Credits
Grading Scheme: Letter Grade
One-semester introduction to African history for undergraduates. Links the history of African societies with other world civilizations by focusing upon major historical themes. (H and N)
Attributes: General Education - Humanities, General Education - International

AFH 3100 Africa to 1800 3 Credits
Grading Scheme: Letter Grade
Ancient Africa, the expansion of Islam, savannah kingdoms, East African trading cities, maritime contacts with Europe, the slave trade. (H and N)
Attributes: General Education - Humanities, General Education - International

AFH 3200 Africa Since 1800 3 Credits
Grading Scheme: Letter Grade
End of the slave trade and the growth of legitimate commerce; Islamic renewal and revolution; the European partition and the colonial era; the growth of nationalism and the reemergence of independent Africa. (H and N)
Attributes: General Education - Humanities, General Education - International

AFH 3342 History of West Africa 3 Credits
Grading Scheme: Letter Grade
History of West Africa from the Ghana Empire to the contemporary period. (H and N)
Attributes: General Education - Humanities, General Education - International

AFH 3405 History of East Africa 1800-2000 3 Credits
Grading Scheme: Letter Grade
Introduces the history of East Africa from 1800 to the present. Focuses on the interconnected themes of ethnicity, the history of African states, gender and reproductive health.

AFH 3931 Special Topics in African History 3 Credits
Grading Scheme: Letter Grade
Selected variable topics in the history and culture of Africa.
Prerequisite: 3 credits of an AFH, AMH, ASH, EUH, LAH, or WOH course.

AFH 4250 Modern Africa 3 Credits
Grading Scheme: Letter Grade
Selected topics in 19th and 20th century African development; pre-colonial conditions, colonial rule, nationalist movements and the problem of independence. (H and N)
Attributes: General Education - Humanities, General Education - International

AFH 4253 African Women in the Twentieth-Century 3 Credits
Grading Scheme: Letter Grade
Explores themes of politics, social structure, and cultural change by examining the historical experiences of African women.

AFH 4293 Politics and Violence in Africa Since 1800 3 Credits
Grading Scheme: Letter Grade
Puts violence, one of contemporary Africa's most pressing issues, into historical perspective by focusing on the interrelated themes of ethnicity, youth, riot, rebellion, and revolt.

AFH 4450 Southern Africa 3 Credits
Grading Scheme: Letter Grade
History of southern Africa from the pre-European era to the present. (H and N)
Attributes: General Education - Humanities, General Education - International

AFH 4930 History Research Seminar: Africa 3 Credits
Grading Scheme: Letter Grade
Through rotating content, this seminar has two distinct goals: historiography of a specific topic and production of a substantial research paper based on primary source evidence.
Prerequisite: 4LS history major.

AMH 2010 United States to 1877 3 Credits
Grading Scheme: Letter Grade
Surveys the development of the U.S. from its colonial origins to the end of Reconstruction. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 2020 United States Since 1877 3 Credits
Grading Scheme: Letter Grade
Surveys the emergence of modern America as an industrial and world power; the Progressive Era; WWI; the Great Depression and the New Deal; WW II; and the Cold War era. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

AMH 2631 History of Sustainability 3 Credits
Grading Scheme: Letter Grade
Explores the history of sustainability as an idea and practice in the U.S. from the time of European settlement to the near present.

AMH 2642 American History through Films 3 Credits
Grading Scheme: Letter Grade
Hollywood films examine cultural anxieties concerning racial identities, gender roles, and sexual behaviors in the postwar period, from the mid-1940s to the present.

AMH 3223 The Gilded Age 3 Credits
Grading Scheme: Letter Grade
Changes that occurred in America between 1877 and the advent of WWII, emphasizing the meaning of Americanism, conflicts between labor and capital, and the relations between historical events and race, gender and politics.
Prerequisite: 3 credits of history.

AMH 3273 America in the Sixties 3 Credits
Grading Scheme: Letter Grade
Social and political movements of the turbulent era of 1960s America, covering primarily the civil rights, feminist and anti-war movements.
Prerequisite: 3 credits of history.

AMH 3340 History of Disability in America 3 Credits
Grading Scheme: Letter Grade
How disabilities have been labeled, identified and treated over time and in light of broad social trends.

AMH 3421 Florida to 1845 3 Credits
Grading Scheme: Letter Grade
Exploration and settlement, colonial history of Spanish and British Florida, U.S. territorial days to statehood. (H) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 3423 Florida Since 1845 3 Credits
Grading Scheme: Letter Grade
Statehood and secession, Civil War, Reconstruction, reform and reaction, Progressive Era, boom and bust, diversification and growth of Florida since World War II. (H) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 3460 U.S. Urban History 3 Credits
Grading Scheme: Letter Grade
Analyzes the growth and development of urban civilization in the U.S. Emphasis on how cities began and their impact on politics, economics and culture. (H or S)(WR)
Prerequisite: 3 credits of history with a grade of C or better.
Attributes: General Education - Humanities, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

AMH 3500 U.S. Labor History 3 Credits
Grading Scheme: Letter Grade
Emphasizes the history of America's working class people, and addresses such issues as working class consciousness, theories of organized labor, methods of organization, and class relationships. (D and H) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 3511 American Foreign Relations and Expansion Since 1914 3 Credits
Grading Scheme: Letter Grade
Focuses on the origin, conduct, and consequences of American diplomacy during an era of global conflict and revolutionary upheaval. (H) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 3519 U.S. - Middle East Relations 3 Credits
Grading Scheme: Letter Grade
Examines U.S.-Middle East relations in historical context, including culture, U.S.-Israeli relations, nationalists, radicals, and events and issues that impact this relationship.
Prerequisite: 3 credits of history.

AMH 3531 The American Jewish Experience 1880-2000 3 Credits
Grading Scheme: Letter Grade
Introduces the major events and issues in American Jewish history and offers a sense of why Jews felt at home in America. Focuses on immigration, assimilation and collective survival.

AMH 3551 Constitutional History of the United States to 1877 3 Credits
Grading Scheme: Letter Grade
Analyzes the development of constitutionalism from English colonial origins to the end of Reconstruction, emphasizing the inherent tension between concepts of power and liberty. (H) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 3552 Constitutional History of the United States Since 1877 3 Credits
Grading Scheme: Letter Grade
Continues AMH 3551, giving special attention to the way in which constitutionalism has adapted to the growth of an urban and industrial society, to the extension of civil liberties and civil rights, and to the growth of executive authority. (H) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 3558 United States Legal History 3 Credits
Grading Scheme: Letter Grade
Nontechnical survey of American legal development from its English common law origins to the present. (H) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 3561 American Women in the 19th Century 3 Credits
Grading Scheme: Letter Grade
Examines women's history during the 19th century with a focus on how women gradually entered the public arena as laborers, reformers, writers, and performers.
Prerequisite: 3 credits of history.

AMH 3562 Women in Modern U.S. 3 Credits
Grading Scheme: Letter Grade
Introduces major events, trends and issues in the history of U.S. women from the Civil War to the present. (H)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities

AMH 3582 African American and Latino Histories 3 Credits
Grading Scheme: Letter Grade
Comparative examination of the histories of African Americans and Latinos from the early 19th century to present. Major themes include the social construction of race, the development of state policies that enforced racial inequality, struggles for equal citizenship, cultural and social movements for change.
Prerequisite: 3 credits of history.

AMH 3593 Oral History 3 Credits
Grading Scheme: Letter Grade
Introduces the theory and practice of oral history. Examines key issues in historical memory, interviewing, and community-based fieldwork; also examines scholarly debates on oral history as a dialogic mode of knowledge production. Learn digital humanities production methods to bring historical knowledge to broader audiences.
Prerequisite: 3 credits of history.

AMH 3630 American Environmental History 3 Credits
Grading Scheme: Letter Grade
Substantive and interpretative inquiry of the historical roots of the nation's contemporary environmental issues. A comprehensive overview of the relationship between people and their natural physical surroundings from the Columbian explorations to the 1980s.

AMH 3660 Native American History to 1815 3 Credits
Grading Scheme: Letter Grade
Examines the representations and realities of North American Indian history from the pre-Columbian period through the early 19th century. (H)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities

AMH 3661 Native American History Since 1806 3 Credits
Grading Scheme: Letter Grade
Examines the representations and realities of North American Indian history from the early 19th century to the present. (H and D)
Prerequisite: 3 credits of history.
Attributes: General Education - Diversity, General Education - Humanities

AMH 3670 African Diaspora in the Americas 3 Credits
Grading Scheme: Letter Grade
Explores the centrality of Africa in the Americas by studying revolutions against slavery and colonialism in the African Diaspora from the 18th century to present with a special emphasis on the development of democratic ideologies among people of African descent in the Americas.
Prerequisite: 3 credits in AFH, ASH, AMH, EUH, HIS, LAH, or WOH.

AMH 3674 American Slavery and Abolition 3 Credits
Grading Scheme: Letter Grade
History of American slavery and abolition from the 1600s through emancipation and the Reconstruction Era.
Prerequisite: 3 credits of history.

AMH 3931 Special Topics in American History 3 Credits
Grading Scheme: Letter Grade
Selected, variable topics in the history and culture of America.
Prerequisite: 3 credits of history.

AMH 4110 Early America 3 Credits
Grading Scheme: Letter Grade
Origin and development of an American society along the eastern seaboard of North America. (H) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 4111 New World Encounters 3 Credits
Grading Scheme: Letter Grade
Analyzes the intellectual, cultural and social changes which resulted in a mixture of ideas and cultures from Europe, Africa, and native America. (H) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 4130 American Revolutionary Era, 1760-1789 3 Credits
Grading Scheme: Letter Grade
Analyzes the background of, and reasons for, the American Revolution, the social, military, political, diplomatic aspects of the era, as well as the constitutional developments of these years. (H) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 4160 The Early Republic, 1789-1848 3 Credits
Grading Scheme: Letter Grade
Social, political, cultural and economic history of America in its formative years. The Age of Jefferson (1789-1824) and the period of the first party system, including the policies and the wars of the Virginia dynasty. The second half, the Age of Jackson (1824-1848), discusses the rise of the Democratic and Whig parties, Indian removal, trends in religion and reform, further western expansion and the sectionally divisive Mexican War. (H) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 4231 U.S. World War I to World War II 3 Credits
Grading Scheme: Letter Grade
Post-World War I America: the Twenties, the Depression and the New Deal, WW II. (H) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 4270 U.S. Since World War II 3 Credits
Grading Scheme: Letter Grade
Post-World War II America: America as world power, social revolution, Vietnam, Watergate and after. (H) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 4312 History of Sexualities 3 Credits
Grading Scheme: Letter Grade
Social history of sexuality, tracing history of ideas about and attitudes toward sexuality in law, politics, medicine and science from ancient Greeks to the present; emphasizes the North American experience.

AMH 4316 Violence and Social Conflict in American History 3 Credits
Grading Scheme: Letter Grade
Changing patterns and levels of violent behavior, including rioting, lynching, domestic violence, street violence, during the last four centuries of American history.

AMH 4317 History by Hollywood 3 Credits
Grading Scheme: Letter Grade
Compares Hollywood films with traditional historiographic accounts to explore the cultural and political history of the 1950s, '60s and '70s, including the Montgomery Bus Boycott, civil rights, the Vietnam War and political assassinations.

AMH 4319 Crime and Punishment in American History 3 Credits
Grading Scheme: Letter Grade
Historical development of crime and criminal justice in America with particular attention to the ways in which social, political and cultural forces have shaped legal institutions during the past four centuries.

AMH 4373 History of American Capitalism 3 Credits
Grading Scheme: Letter Grade
Political, economic and social contours of American capitalism from the late 18th century through the near present.
Prerequisite: 6 credits of history.

AMH 4402 The South to 1865 3 Credits
Grading Scheme: Letter Grade
Development of southern culture from the earliest settlements to the development of southern nationalism. (H)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities

AMH 4403 The South Since 1860 3 Credits
Grading Scheme: Letter Grade
Impact of Civil War and Reconstruction; economic, political and social development of the new South.
Prerequisite: 6 credits of history.

AMH 4550 Origins of the U.S. Constitution 3 Credits
Grading Scheme: Letter Grade
The colonial origins, drafting and ratification of the U.S. Constitution and its application through 1819. Examines the political, economic and intellectual influences that helped shape the Constitutional system designed by the framers.

AMH 4571 American Civil War and Reconstruction 3 Credits
Grading Scheme: Letter Grade
Analyzes the political, social and economic transformation of the Union, highlighting the Presidency of Lincoln, the evolution of federal policies of Unionist loyalty and slave emancipation, the development of Union military leadership, and the tragically unsuccessful post-war attempt to provide justice to the freed people. (H) (WR)
Prerequisite: refer to the department
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

AMH 4575 Civil Rights Movements 3 Credits
Grading Scheme: Letter Grade
Introduces the origins, development and legacies of the African-American civil rights and black movements in America, focusing primarily on the period between 1945 and 1980.

AMH 4612 Sport and American Culture 3 Credits
Grading Scheme: Letter Grade
Explores the place of sport in American society and culture from the time of European settlement to the present. Uses sport, in its institutional and recreational forms, to illuminate broader historical themes, urban and community life, economic development, social relationship, social mobility and popular and cultural processes.
Prerequisite: 6 credits of history.

AMH 4930 History Research Seminar: US 3 Credits
Grading Scheme: Letter Grade
Introduces the historiography of a specific topic and production of a substantial research paper based on primary source evidence. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

ASH 3223 History of the Modern Middle East 3 Credits
Grading Scheme: Letter Grade
Surveys the history, politics and society of the Middle East from the early 19th century until the present day. Topics include transformation of Islamic empire to post-colonial states, development of collective identities, the formation of new social classes and changing gender relations.
Prerequisite: 3 credits of history.

ASH 3303 Modern Korea: Power and Protest 3 Credits
Grading Scheme: Letter Grade
Examines the history of the Korean people from the mid-nineteenth century to the present. Focuses on the episodes that have shaped the ways in which Koreans understand their past, covering the following major themes: colonialism and anti-colonialism, war and occupation and the struggle for a more democratic polity.
Prerequisite: 3 credits of history.

ASH 3442 Modern Japan 3 Credits
Grading Scheme: Letter Grade
Surveys the social, political and economic transformation of modern Japanese society from 1800. (H and N)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International

ASH 3931 Special Topics in Asian History 3 Credits
Grading Scheme: Letter Grade
Variable topics in the history and culture of Asia.
Prerequisite: 3 credits of history.

ASH 4930 History Research Seminar: Asia 3 Credits
Grading Scheme: Letter Grade
Variable topics seminar with two distinct goals: introduce the historiography of a specific topic and produce a substantial research paper based on primary source evidence.

EUH 2000 Western Civilization: From Early Times to the Middle Ages 3 Credits
Grading Scheme: Letter Grade
Introduces western civilization that studies the early cultures in Mesopotamia and Egypt, the Minoan-Mycenaean society, Greece, the Hellenistic period and the Roman Empire to the Barbarian invasions. (H and N)
Attributes: General Education - Humanities, General Education - International

EUH 2001 Western Civilization: From the Middle Ages to the Eighteenth Century 3 Credits
Grading Scheme: Letter Grade
Treats feudal, urban and religious institutions in Medieval society, Renaissance and Reformation, the Thirty Years' War, the Age of Louis XIV and the Age of Reason. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 2002 Western Civilization: From the Eighteenth Century to the Present 3 Credits
Grading Scheme: Letter Grade
Explores 18th-century revolutions, Napoleon, romanticism and reaction, national unifications and imperialism, competing ideologies, the world wars and Europe in the postwar era. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3033 History of the Holocaust 3 Credits
Grading Scheme: Letter Grade
Origins of anti-Semitism in central Europe and the execution of the Holocaust by Nazi Germany. Examines the ideology of the Nazi leaders and the role of the SS, Army, Police, and ordinary citizens in perpetrating genocide. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 4000 Words of Writing Requirement

EUH 3035 Nazi Germany 3 Credits
Grading Scheme: Letter Grade
Political and cultural analysis of the history of Nazi Germany examining Nazi ideology, the origins of the Nazi state, coercion and consent among ordinary Germans, persecution of the disabled and of Jews, resistance and non-resistance, and the course of World War II from the German perspective.
Prerequisite: 3 credits of an AFH, AMH, ASH, EUH, HIS, LAH, or WOH course.

EUH 3091 Intellectual History of Europe, Renaissance to Modern 3 Credits
Grading Scheme: Letter Grade
Examines intellectual developments that have shaped modern views of human nature, society, the natural world and God.

EUH 3121 The Early Middle Ages 3 Credits
Grading Scheme: Letter Grade
Studies the formation of the Medieval West from the dissolution of the Roman Empire to the year 1000 A.D. Emphasizes the ways in which Roman, Christian and Germanic traditions fused to form a new civilization. (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3122 The High Middle Ages 3 Credits
Grading Scheme: Letter Grade
Examines European civilization from the 11th to the 14th centuries. Contrasts the urban and rural, northern and southern forms of economic social, cultural and political phenomena. (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3140 Renaissance 3 Credits
Grading Scheme: Letter Grade
Interpretations of the Renaissance: Italy's political, literary and artistic developments. The northern Renaissance and Christian Humanism. (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3144 The Reformation 3 Credits
Grading Scheme: Letter Grade
Critical religious changes in Europe from the 15th to 17th centuries. Pays particular attention to the broad impact of religion on the social, cultural and political developments of the period. (H and N)
Attributes: General Education - Humanities, General Education - International

EUH 3180 Medieval Magic 3 Credits
Grading Scheme: Letter Grade
Assessment of the cultural, religious and political implications of the supernatural in late antique, medieval and early modern European society (400-1700 CE). Besides addressing the role of scapegoating in the persecution of marginalized groups, it suggests how belief in demonic magic co-existed with Christian belief in miracles.
Prerequisite: 3 credits of history.

EUH 3182 Medieval Archaeology 3 Credits
Grading Scheme: Letter Grade
Methods and theory of archaeology with particular emphasis on the Medieval period and the relation between the written and the archaeological evidence.

EUH 3202 Early Modern Europe, 1500-1700 3 Credits
Grading Scheme: Letter Grade
Development of Europe as it emerged from Middle Ages focusing on the growth of the modern state and the critical changes in politics, science, economics and religion. (H and N)
Attributes: General Education - Humanities, General Education - International

EUH 3204 Eighteenth-Century Europe 3 Credits
Grading Scheme: Letter Grade
Studies European politics, economics, society, ideas and institutions in the 18th century, including early modern forms of governance, the Enlightenment and the Age of the Revolution. (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3205 Nineteenth-Century Europe 3 Credits
Grading Scheme: Letter Grade
Studies European politics, society, ideas and institutions, including the French Revolution, emergence of modern politics, upheavals of 1848 and 1871, rise of nationalism, urbanization and socialism. (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3206 Twentieth-Century Europe 3 Credits
Grading Scheme: Letter Grade
Origins and outcomes of the two world wars, the varieties of European social and political ideologies, and the ever-changing pattern of national and trans-national identities. (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3300 Byzantine History 3 Credits
Grading Scheme: Letter Grade
Surveys Byzantine history with emphasis on political, economic and religious institutions and the role of Byzantium in medieval Europe.

EUH 3323 Medieval Eastern Europe 3 Credits
Grading Scheme: Letter Grade
Eastern Europe from late Antiquity to the 15th century. Examines the major problems of medieval history, with special emphasis on the role of the region in the history of the continent.

EUH 3330 Late Modern Central and Eastern Europe 3 Credits
Grading Scheme: Letter Grade
Cultural, social and political survey of the Hapsburg Monarchy, Poland, and the Balkans from 1700 to 1918. Topics include absolutism, revolutionary nationalism, modernization, cultural flowering, ethnic violence, socialism and WWI.

EUH 3383 Pagans, Christians, Barbarians: the World of Late Antiquity 3 Credits
Grading Scheme: Letter Grade
Surveys the history of the Mediterranean region from the second to the 7th century with a particular focus on religious and cultural developments that marked the rise of a Christian Roman Empire.

EUH 3432 Early Medieval Italy 3 Credits
Grading Scheme: Letter Grade
Surveys economic, social and political developments in the Italian peninsula between 800 and 1100.
Prerequisite: 3 credits of history.

EUH 3473 Medieval Germany 3 Credits
Grading Scheme: Letter Grade
Surveys economic, social and political developments in Central Europe during the Middle Ages (500-1350).
Prerequisite: 3 credits of history.

EUH 3500 Medieval England 3 Credits
Grading Scheme: Letter Grade
Creation of a national society and culture in the time of England's constitutional development (to the 16th century). (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3501 Early Modern England 3 Credits
Grading Scheme: Letter Grade
Development of a revolutionary tradition and of a parliamentary monarch in the period of England's cultural flowering (16th to 18th centuries). (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3502 Modern Britain 3 Credits
Grading Scheme: Letter Grade
Social, political and economic developments in the19th and 20th centuries. (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3504 Britain before 1000 CE 3 Credits
Grading Scheme: Letter Grade
Examines the history of Britain from prehistoric times through the Roman and Anglo-Saxon conquests using historical, archaeological, literary and art historical sources. Studies political events, cultural and religious change and economic developments.
Prerequisite: 3 credits of history.

EUH 3530 Colonies to Commonwealth: the History of the British Empire 3 Credits
Grading Scheme: Letter Grade
History of the British Empire from its origins in Ireland to the decolonization movements of the 20th century. Examines not only the ways in which the British established and extended the empire through the political, military, economic and cultural spheres, but also resistance to empire.

EUH 3533 Ireland in the British Empire 3 Credits
Grading Scheme: Letter Grade
Place of Ireland in the British Empire and the imperial experiences of the Irish people. Covers the main themes of Irish history from the Tudor conquest to the establishment of the Irish Republic, all the while being attuned to the broader imperial context.

EUH 3564 Central and Eastern Europe in the 20th Century 3 Credits
Grading Scheme: Letter Grade
Covers the collapse of Austro-Hungary, its successor states in the inter-war period, World War II, the Holocaust, the rise and fall of Communism in Central and Eastern Europe.

EUH 3575 Imperial Russia, 1700-1914 3 Credits
Grading Scheme: Letter Grade
Major institutional, political, social and economic issues confronting the Russian state, drawing on source materials and on Russian literature to illustrate these issues. (H and N)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International

EUH 3576 Twentieth-Century Russia to 1953 3 Credits
Grading Scheme: Letter Grade
Internal political, economic and social history of 20th-century Russia, including the impact of modernization, the rise of radical ideologies, the Bolshevik revolution and the evolution of the Soviet Union. (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 3605 Science, History and Change 3 Credits
Grading Scheme: Letter Grade
Examines the historical and cultural relations of ideas about science and history as they converge on notions of nature, reason, time, causality, change, evolution, progress, continuity and revolution, from antiquity to Einstein. (H)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities

EUH 3670 Jewish History from 711 to 1492 3 Credits
Grading Scheme: Letter Grade
Surveys major historical developments in medieval Jewish society under Islam and western Christendom. Examines the interaction of Jews with the majority culture, political structure and economy, as well as changing cultural trends.

EUH 3671 Jewish History from 1492-1750 3 Credits
Grading Scheme: Letter Grade
Surveys major trends in Jewish society from the f15th to the 18th century, focusing on community structures and interfaith relations.
Prerequisite: 3 credits of history.

EUH 3672 Modern European Jewish History 3 Credits
Grading Scheme: Letter Grade
Major events and themes of the Jews in Europe from 1650-1945.
Prerequisite: 3 credits of history.

EUH 3683 The History of Consumption 3 Credits
Grading Scheme: Letter Grade
Combines economic, social and political history to study the rise of consumer culture from the 18th century to the present. Primarily focused on Europe but includes the United States in the 20th century.

EUH 3931 Special Topics in European History 3-9 Credits
Grading Scheme: Letter Grade
Selected variable topics in the history and culture of Europe.
Prerequisite: 3 credits of history.

EUH 4123 Holy War in the Middle Ages 3 Credits
Grading Scheme: Letter Grade
Examines the shifting terrain of historical and theological conceptions of war and holy war in the middle ages. Divided into four distinct sections: theological foundations, early medieval conceptions of war and community, the Crusades and changes in the high and late middle ages.
Prerequisite: 6 credits of history.

EUH 4185 The Viking Experience 3 Credits
Grading Scheme: Letter Grade
Scandinavian medieval history, including an examination of the profound changes brought by Christianization and the rise of the medieval states.
Prerequisite: 6 credits of history.

EUH 4186 Medieval Archaeology Field Practicum 6 Credits
Grading Scheme: Letter Grade
Introduces medieval archaeology as a historical discipline and an inquiry into various approaches to the interpretation of material culture.

EUH 4280 History of the Second World War 3 Credits
Grading Scheme: Letter Grade
Analyzes World War II, covering the origins, politics, resistance movements, grand strategy and consequences. (H) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

EUH 4282 History of Cold War Europe 3 Credits
Grading Scheme: Letter Grade
Cold War era in Europe, 1945-1991; emphasizes origins, social, economic and political aspects, and the historical consequences on Europe.
Prerequisite: 6 credits of history.

EUH 4310 History of Medieval Spain 3 Credits
Grading Scheme: Letter Grade
History of the Iberian Peninsula between Late Antiquity and the end of the Reconquista. Emphasizes Muslim Spain, the Christian kingdoms in the North, Christian-Muslim-Jewish interactions, cultural development and social differentiation.
Prerequisite: 6 credits of history.

EUH 4311 Jews of Medieval Spain 3 Credits
Grading Scheme: Letter Grade
Explores Jewish life and culture in the Iberian Peninsula from the early middle ages through the Expulsion of 1492. Analyzes interfaith relations and the role Jews played in shaping Spanish society and culture.
Prerequisite: 6 credits of history.

EUH 4463 Nineteenth-Century Germany 3 Credits
Grading Scheme: Letter Grade
Germany's political development toward nationhood in the 19th century, and the imperial policies of Bismarck and Wilhelm II. The social history of specific groups in German society. Germany's role in the outbreak of WW I. Offered alternate years. (H and N) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 4464 Twentieth Century Germany 3 Credits
Grading Scheme: Letter Grade
Collapse of the monarchy and tribulations of the Weimar Republic. Examines Hitler's seizure of power, and of social, political, and ideological aspects of the Third Reich. The two Germanies to the fall of the Berlin Wall. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

EUH 4563 Habsburg Monarchy 3 Credits
Grading Scheme: Letter Grade
Studies the multi-ethnic dynastic state from formation through revitalization under Maria Theresa, conservative retrenchment under Metternich, and the challenge of nationalism from its peoples, to Austro-Hungary's collapse in WW I.
Prerequisite: 6 credits of history.

EUH 4584 Medieval Russia 3 Credits
Grading Scheme: Letter Grade
Introduces the history of Eastern Europe from ca. 500 to 1584. Focuses on interconnected themes of state formation, trade, conversion to Christianity and the impact of the Mongol conquest.
Prerequisite: 6 credits of history.

EUH 4610 Society and the Sexes in Modern Europe, 18C to the Present 3 Credits
Grading Scheme: Letter Grade
Gendered analysis of great historical events, political movements and ideologies. Other topics of social and cultural history are discussed.
Prerequisite: 6 credits of history.

EUH 4664 Modern European Revolutions: 1789-1989 3 Credits
Grading Scheme: Letter Grade
History of key European revolutions that occurred between 1789 and 1989. Emphasizes the economic, cultural and political conditions that gave rise to and accompanied the development of these watershed events.
Prerequisite: 3 credits of history.

EUH 4665 Terrorism and Political Violence in Post-War Europe: 1945-2000 3 Credits
Grading Scheme: Letter Grade
Provides a multi-country historical survey of the role terrorism and violence have played in European affairs in the post-Second World War era from 1945 to 2000.
Prerequisite: 6 credits of history.

EUH 4930 History Research Seminar: Europe 3 Credits
Grading Scheme: Letter Grade
Through rotating in content, this seminar has two distinct goals: introduce the historiography of a specific topic and produce a substantial research paper based on primary source evidence.
Prerequisite: History major with senior standing.

HIS 3454 Racial Theories in Europe and the U.S. 3 Credits
Grading Scheme: Letter Grade
Introduces history of racial ideas and images from ancient to modern period.
Prerequisite: 3 credits of history.

HIS 3460 History of Science and Religion 3 Credits
Grading Scheme: Letter Grade
Surveys the interaction between the religious and scientific communities in the West from the time of the early church to the present.

HIS 3463 Introduction, History of Science: Origins to Newton 3 Credits
Grading Scheme: Letter Grade
Introduces the emergence of scientific thought from its mythopoeic beginnings to the time of Newton. Focuses on the interrelationships among science, philosophy and religion in Greece, Islam and the Latin West. Emphasizes Copernicus, Kepler, Galileo, Descartes and Newton. (H and N)
Attributes: General Education - Humanities, General Education - International

HIS 3464 Introduction, History of Science: Renaissance to the Present 3 Credits
Grading Scheme: Letter Grade
General survey of the major issues in physical and biological science from the time of Galileo to the present. Emphasizes the impact of scientific development on society, culture and thought. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

HIS 3465 The Scientific Revolution 3 Credits
Grading Scheme: Letter Grade
Emergence of modern science from Copernicus to Newton exploring the notions of empiricism, experiment, mechanism, materialism, and the historical concepts of continuity, change, revolution and progress. (H) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

HIS 3483 The Nuclear Age 3 Credits
Grading Scheme: Letter Grade
History of the changing perception of the political and social significance of science since the discovery of nuclear fission.
Prerequisite: 3 credits of history.

HIS 3495 Evolution of Infectious Diseases 3 Credits
Grading Scheme: Letter Grade
Emergence of new infectious diseases in a historical and cultural context. Emphasizes the history of well-documented infectious diseases such as leprosy, bubonic plague, cholera, smallpox, yellow fever, tuberculosis, influenza, polio, venereal disease and AIDS, as well as the more recent Ebola viral-type outbreaks. (S)
Prerequisite: 3 credits of history.
Attributes: General Education - Social Science

HIS 3501 The History of Modern Biological Thought 3 Credits
Grading Scheme: Letter Grade
Selected areas of modern biological thought after 1800. Topics include Darwin, genetics, the Evolutionary Synthesis, molecular biology and sociobiology. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

HIS 3610 History and Public Policy 3 Credits
Grading Scheme: Letter Grade
Examines the role of historical analysis and argument in the policy-making process. Introduces the ways in which decision-makers use and misuse history, and considers what it means to take history into account in public policy. Uses specific contemporary policy problems to illustrate the challenges of using history effectively.
Prerequisite: 3 credits of history.

HIS 3931 Special Topics 3 Credits
Grading Scheme: Letter Grade
Special topics in history. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

HIS 3942 History Practicum 3 Credits
Grading Scheme: Letter Grade
Learn the elements of the professional study of history: the critical reading of sources (primary and secondary); research skills; and a variety of historical methodologies.
Prerequisite: 3 credits of history.

HIS 4472 History of Evolutionary Thought from the Enlightenment to the Present 3 Credits
Grading Scheme: Letter Grade
Advanced history of science examines the history of evolutionary thought from the Enlightenment to the present. Emphasizes the specific development of Darwinian evolutionary theory and the lives of key theorists such as Charles Darwin and Alfred Russel Wallace. Considers sociopolitical and national contexts.
Prerequisite: some background in evolutionary science or history of science recommended.

HIS 4905 Individual Study 1-3 Credits
Grading Scheme: Letter Grade
Individual study in history. (WR)
Prerequisite: 6 credits of history.
Attributes: Satisfies 6000 Words of Writing Requirement

HIS 4911 Undergraduate Research in History 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

HIS 4930 History Research Seminar 3 Credits
Grading Scheme: Letter Grade
Through rotating in content, this seminar has two distinct goals: introduce the historiography of a specific topic and produce a substantial research paper based on primary source evidence.
Prerequisite: History major of senior standing.

HIS 4944 Internship in the Practice of History 1-3 Credits
Grading Scheme: Letter Grade
Gives history majors practical experience in history-related institutions and organizations, such as archives, historical societies, museums and university presses.
Prerequisite: history major and undergraduate coordinator permission.

HIS 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

HIS 4970 Senior Thesis 1-3 Credits
Grading Scheme: Letter Grade
Required for potential award of high or highest honors. Directed research leading to the submission of an interpretive and analytical, rather than merely narrative, essay of approximately 40 pages in length. The paper may be based on research into a particular topic for which there is accessible source materials or it may involve a thorough critical assessment of a significant historical controversy or historiographical issue. Topics must be approved by the department honors coordinator. Registration for two semesters' work is required in order to allow adequate attention to the project. (WR)
Prerequisite: senior standing and department permission before registering.
Attributes: Satisfies 6000 Words of Writing Requirement

HIS 4971 History Honors Workshop 3 Credits
Grading Scheme: Letter Grade
Assists with all phases of the senior thesis, including project design, research, writing, and oral presentation. Students complete assignments that build toward a draft of a preliminary chapter or the introduction. The workshop provides a collaborative environment in which to pursue individual thesis projects.
Prerequisite: acceptance into the History Honors program.

HPS 3003 Perspectives on Science and Mathematics 3 Credits
Grading Scheme: Letter Grade
Explores the different ways that scientists and mathematicians since the 17th century have explained the workings of the natural world. (H) (WR)
Prerequisite: UFTeach Step 1.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

IDH 2931 Honors Seminar 3 Credits
Grading Scheme: Letter Grade
Special topics restricted to those in the university-wide Honors Program. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

LAH 2020 Introduction to Latin American History 3 Credits
Grading Scheme: Letter Grade
Introduces Latin American civilization, from the Conquest to the present, emphasizing select topics in social, political and cultural history. (H and N)
Attributes: General Education - Humanities, General Education - International

LAH 3100 Emergence of Latin American Nations 3 Credits
Grading Scheme: Letter Grade
The last phase of the colonial regime, movement for independence, and problems of nation-building to the end of the 19th century. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

LAH 3130 Colonial Latin America 3 Credits
Grading Scheme: Letter Grade
Surveys the formation of Spanish and Portuguese imperial systems and colonial societies in America in the 16th, 17th and 18th centuries. (H and N) (WR)
Prerequisite: 3 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

LAH 3300 Contemporary Latin America 3 Credits
Grading Scheme: Letter Grade
Contemporary challenges to traditional structures; revolution and evolution. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

LAH 3470 Introduction to Caribbean History 3 Credits
Grading Scheme: Letter Grade
The main issues and debates in Caribbean history from the time of Columbus to the mid-20th century.

LAH 3725 Race, Religion and Revolution in the Black Caribbean 3 Credits
Grading Scheme: Letter Grade
Explores the history of Jamaica, Haiti, the Dominican Republic and the Miskito Coast of Nicaragua. Explains the emergence of colonial and neo-colonial political systems, the concept of race in relationship to slavery and global capitalism as well as the role of religion in revolutionary actions.
Prerequisite: sophomore standing.

LAH 3741 Revolution in the Americas 3 Credits
Grading Scheme: Letter Grade
Historical analysis of the armed and unarmed revolutionary movements of 20th century Latin America, from Mexico to Chile.
Prerequisite: 3 credits of history.

LAH 3931 Special Topics in Latin American History 3-9 Credits
Grading Scheme: Letter Grade
Selected, variable topics in the history and culture of Latin America.
Prerequisite: 3 credits of history.

LAH 4433 Modern Mexico 3 Credits
Grading Scheme: Letter Grade
Aftermath of independence and war with U.S., the Reform and Maximillian, Porfiriato, Mexican Revolution and contemporary trends. (H and N) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

LAH 4471 Caribbean History to 1800 3 Credits
Grading Scheme: Letter Grade
Social, economic and political history of the West Indies and the Circum-Caribbean region to 1800, with particular emphasis on slave society. (H and N) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

LAH 4472 The Caribbean, Nineteenth and Twentieth Centuries 3 Credits
Grading Scheme: Letter Grade
Social history of the modern Caribbean: slave emancipation and decolonization; race relations and black consciousness; labor, culture, and economic change. (H and N) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

LAH 4473 France in the Caribbean 3 Credits
Grading Scheme: Letter Grade
Making of the modern Francophone Caribbean. Introduce a range of political, economic and cultural phenomena from buccaneering and voodoo to tourism and transnational identity. Emphasizes slave plantation society, the Haitian Revolution and the black consciousness movements of the 20th century.

LAH 4520 Andean Nations 3 Credits
Grading Scheme: Letter Grade
Anthropological and political history of the postcolonial Andean region, including the republics of Venezuela, Colombia, Ecuador, Peru and Bolivia. (H and N) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

LAH 4602 The Conquest of Amazonia 3 Credits
Grading Scheme: Letter Grade
Historical analysis of the Amazon. Need no previous knowledge of Latin American history; for those interested in the current issues confronting the region. (H and N)

LAH 4630 Brazil after 1750 3 Credits
Grading Scheme: Letter Grade
Late and colonial reform; independence and origins and achievements of Brazilian monarchy; modernization and neo-colonialism; slavery, the military, and emergence of oligarchical republic; legacy of dictatorship and populism. (H and N) (WR)
Prerequisite: 6 credits of history.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

LAH 4730 Science and Technology in Latin American, 1492-Present 3 Credits
Grading Scheme: Letter Grade
Introduces the diffusion, acculturation and adaption of scientific ideas, practices and technology by exploring concepts within Latin America.
Prerequisite: 3 credits of history.

LAH 4930 History Research Seminar: Latin America 3 Credits
Grading Scheme: Letter Grade
Through rotating in content, this seminar has two distinct goals: introduce the historiography of a specific topic and produce a substantial research paper based on primary source evidence.
Prerequisite: 4LS history major.

MEM 3003 Introduction to the Medieval World 3 Credits
Grading Scheme: Letter Grade
Chronological and topical introduction to history of the medieval millennium (400-1400). (H and N)
Attributes: General Education - Humanities, General Education - International

MEM 4931 Special Topics in Medieval and Early Modern Studies 1-3 Credits
Grading Scheme: Letter Grade
Advanced study in medieval and early modern studies.

WOH 2040 The World in the Twentieth Century 3 Credits
Grading Scheme: Letter Grade
Surveys major developments in the history of the twentieth century, focusing on the increasing world interconnections and interdependency. Themes include imperialism, nationalism and decolonization, the two world wars and the interwar period, the Cold War, new social movements and globalization and the international economy.

WOH 3043 The World Since 1945 3 Credits
Grading Scheme: Letter Grade
Overview of the contemporary world, while trying to promote an awareness of the striking diversity of views that characterize and shape that world. Covers major issues in the post 1945 world, the Cold War, colonialism and decolonization. (H and N)
Attributes: General Education - Humanities, General Education - International

WOH 3203 Africans in World History 3 Credits
Grading Scheme: Letter Grade
Critically examines the history of Africans outside Africa; emphasizes the Atlantic world and the Americas and to connections forged between peoples of African descent and broader movements in world history. Themes include slavery and anti-slavery, diaspora formation, the history of ideas, revolution, decolonization and civil rights struggles.
Prerequisite: 3 credits of history.

WOH 3205 History of Human Rights 3 Credits
Grading Scheme: Letter Grade
Explores the global history of human rights, looking at the bases of those rights, including traditions, practices and international declarations and their evolution over time. At the end of the semester, groups present case reports that apply human rights principles to a variety of historical moments.
Prerequisite: 3 credits of history.

WOH 3233 History of Christianity 1 3 Credits
Grading Scheme: Letter Grade
Surveys the history of Christianity, c. 100 to c. 1300, from its status as a persecuted minority religion of the Roman Empire to its position of dominance in the civilizations of medieval Europe and Byzantium.

WOH 3239 History of Christianity 2 3 Credits
Grading Scheme: Letter Grade
Developments in the history of Christianity from the 14th to the 18th centuries. Topics include the crises of the 14th century (impact of the Black Death, Avignon papacy and schism), conciliarism, the Reformation movements, expansion of Christianity abroad and the impact of the Enlightenment on faith.
Prerequisite: 3 credits of history.

WOH 3241 The Vietnam War 3 Credits
Grading Scheme: Letter Grade
Examination of the origins, course, and consequences of the conflict in Vietnam, from American and various Vietnamese perspectives, and including the roles of other participants, such as the French, Chinese, and Soviets.
Prerequisite: 3 credits of history.

WOH 3242 The United States and the Contemporary World 3 Credits
Grading Scheme: Letter Grade
Traces the historical development of issues in contemporary international politics. Case studies may include the international economy, terrorism, change and conflict in the Middle East, the drug trade, nuclear and biological weapons, climate change and globalization.

WOH 3404 Global History of Energy 3 Credits
Grading Scheme: Letter Grade
Examines the relationship of human society to energy. Global in size and scope, a large swath of human history on several continents is covered.
Prerequisite: 3 credits in AFH, or AMH, or ASH, or EUH, or HIS, or LAH or WOH.

WOH 4204 Modern Masculinities in Global Perspective 3 Credits
Grading Scheme: Letter Grade
Comparative, global and historical approach to the study of masculinity, drawing from a burgeoning interdisciplinary scholarship. Study ranges across the world and examines masculinities in the Americas, Asia and Europe with special attention to case studies such as Iran, the United Kingdom, Japan and the United States.
Prerequisite: 3 credits of history.

WOH 4234 Atlantic Exchanges from Columbus to NATO 3 Credits
Grading Scheme: Letter Grade
History of the Atlantic world, demonstrating that oceans have been connective forces that facilitate the exchange of commodities, capital and culture across vast distances. Topics include the history of the central and northern Atlantic during the age of Imperialism.

WOH 4243 Empires, Nationalism, and Revolution 1945-1994 3 Credits
Grading Scheme: Letter Grade
Adopting a world history approach to post-World War II era, explores how decolonization intersected with the Cold War in Africa, Asia and Latin America.
Prerequisite: 6 credits of history.

WOH 4254 Nations and Nationalism 3 Credits
Grading Scheme: Letter Grade
Studies the modern genesis of the nation and the nation-state in the Americas, Europe, Asia and Africa. Emphasizes the relationship between European Imperialism and colonial and postcolonial nationalisms around the globe.

WOH 4264 Empires and Imperialism 3 Credits
Grading Scheme: Letter Grade
Introduces the history of early modern and modern empires and imperialisms in Europe, Africa, the Americas and Asia.

WOH 4930 History Research Seminar: World History 3 Credits
Grading Scheme: Letter Grade
Introduces the historiography of a specific topic; requires a substantial research paper based on primary source evidence.
Prerequisite: History major.

Honors Program

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

For information on honors courses offered each semester, students should consult the schedule of courses or the honors website.
More Info (http://www.honors.ufl.edu/current/courses)

IDH 1700 Honors Professional Development 1 Credit
Grading Scheme: Letter Grade
Develop Career Related Skills to Succeed At Uf and Beyond.

IDH 2930 (Un)common read 1 Credit
Grading Scheme: Letter Grade
Discussion oriented courses centered around a single book.

IDH 2931 Honors Seminar 3 Credits
Grading Scheme: Letter Grade
Special topics restricted to those in the university-wide Honors Program. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

IDH 3116 Honors Great Political and Social Thought 2 Credits
Grading Scheme: Letter Grade
Examines political, social, legal, ethical and scientific thought through history via the study of ancient and modern texts, film and other media. Close readings of texts develop critical thinking and analytical skills. Restricted to those in the honors program.

IDH 3931 Interdisciplinary Junior Honors 1-3 Credits
Grading Scheme: Letter Grade
Special topics restricted to those in the university-wide honors program. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

IDH 4715 Professional Development Strategies 1 Credit
Grading Scheme: S/U
Helps select undergraduate students identify and compete for the most prestigious career-making scholarships by determining the activities and ideas most important and attractive to selection committees. (S-U)

IDH 4903 Honors Tutorial 1 Credit
Grading Scheme: Letter Grade
Must be taken in conjunction with other courses at the 3000 and 4000 level. Students must secure instructor permission of the course to which they wish to add this credit.
Prerequisite: honors program member.

IDH 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Restricted to those in the university-wide honors program.

IDH 4912 Honors Undergraduate Research 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application.
Prerequisite: honors program permission.

IDH 4940 Internship 1-6 Credits
Grading Scheme: S/U
Experiential learning in a variety of work locations. Permission of program director required. Supervision by a faculty member or delegated authority, daily journal and a post-internship report are required. (S-U).

IDS 2935 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Introduces selected interdisciplinary topics. Content varies from term to term.

IDS 4945 Washington Center Internship 1-15 Credits
Grading Scheme: S/U
Students who are accepted by the Washington Center in Washington, DC and obtain permission of the UF liaison participate in an internship for a summer or semester. A variety of settings related to various academic disciplines are available. A post-internship report is required. (S-U)

IDS 4950 Innovation Academy Senior Project 2 Credits
Grading Scheme: Letter Grade
Using lectures, labs and a multidisciplinary team-based project approach, build life skills in creativity and innovation, entrepreneurship and entrepreneurial thinking. Synthesize and demonstrate leadership and ethics through design and development of a team project.
Prerequisite: senior standing and enrolled in the Innovation minor.

Horticultural Sciences

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

FRC 1010 Growing Fruit for Fun and Profit 1 Credit
Grading Scheme: Letter Grade
Especially for non-majors who desire a concise mini-course in fruit growing and marketing. Fruit crops include citrus, pecan, blueberry, strawberry, peach, grape, apple, mango and avocado.

FRC 3212 Introduction to Citrus Culture and Production 3 Credits
Grading Scheme: Letter Grade
Citrus botany, scion and rootstock selection, site selection, fruit quality grove design and production practices.

FRC 3252 Tropical and Subtropical Fruits 2 Credits
Grading Scheme: Letter Grade
Culture and management of important tropical and subtropical fruit, including avocado, banana, mango, papaya, loquat, persimmon, pineapple, coffee and others.

FRC 3274 Tree and Small Fruit Production 3 Credits
Grading Scheme: Letter Grade
Current principles and cultural practices in deciduous tree, bush and vine crops. Emphasizes practical aspects of production.

FRC 3802 Viticulture for Table Grapes and Wine 2 Credits
Grading Scheme: Letter Grade
Teaches current practices for establishing a vineyard and maintaining its health and productivity into the final quality of the grape. Topics covered include grape varietal selection, site selection and preparation, vine growth, training and trellis systems, and equipment used in vineyard and wine production.
Prerequisite: BSC 2005 or BOT 2010C or BOT 2011C.

HOS 1014 Vegetable Gardening 1 Credit
Grading Scheme: Letter Grade
Primarily for non-majors who desire to learn the basic principles of vegetable gardening. A garden is required of each student.

HOS 3020C Principles of Horticulture Crop Production 4 Credits
Grading Scheme: Letter Grade
Introduces concepts and practices used to produce fruit and vegetable crops in Florida, the U.S., and globally. Topics covered include production regions, crop biology, crop nutrition, types of fruits and vegetables, disease and pest management, and marketing. Includes a hands-on practicum.
Prerequisite: BOT 2010C or equivalent.

HOS 3222C Greenhouse and Protected Agriculture 3 Credits
Grading Scheme: Letter Grade
Principles and practices of crop production in protected structures. Emphasizes structure type, media, fertilization and pest control practices.

HOS 3281C Organic and Sustainable Crop Production 3 Credits
Grading Scheme: Letter Grade
Concepts/techniques of organic and sustainable production of horticultural crops, including soil/water management, pest control, harvest, handling and marketing.

HOS 3285 The Organic Debate: Organic Agriculture Development & Regulations 1 Credit
Grading Scheme: Letter Grade
Organic farming is a rapidly developing production system. This introductory course provides a critical analysis of organic agriculture growth, consumer perceptions, and regulations at the national and international level. This course also focuses on organic agriculture transdisciplinary innovations and challenges in advancing environmental, economic, and social sustainability of food production.
Prerequisite: BSC 2005 or equivalent.

HOS 3305 Introduction to Plant Molecular Biology 3 Credits
Grading Scheme: Letter Grade
Introduces plant molecular biology and genetic engineering, emphasizing plant genes and genomes, transformation of plants and basic molecular biology.
Prerequisite: APB 2150 or BOT 2010C or BSC 2010.

HOS 3430C Nutrition of Horticultural Crops 3 Credits
Grading Scheme: Letter Grade
Study and discussion of physiological, biochemical and environmental factors influencing nutritional status and productivity of horticultural crops.

HOS 4241C Genetics and Breeding of Vegetable Crops 3 Credits
Grading Scheme: Letter Grade
Traditional and molecular breeding methods for vegetable crops and the influence of scientific research, government policies, industry needs, and consumer preferences on vegetable crop improvement.
Prerequisite: AGR 3303.

HOS 4283C Advanced Organic and Sustainable Crop Production 3 Credits
Grading Scheme: Letter Grade
Intensive examination of the methods and techniques necessary for organic and sustainable production and marketing of horticultural products.
Prerequisite: HOS 3281C.

HOS 4304 Horticultural Physiology 3 Credits
Grading Scheme: Letter Grade
Basic concepts and processes of physiology as they relate to plant growth and development.
Prerequisite: BOT 2010C or BSC 2010.

HOS 4313C Laboratory Methods in Plant Molecular Biology 2 Credits
Grading Scheme: Letter Grade
Hands-on laboratory experience in plant molecular biology. Utilizing current techniques for isolation, purification and cloning of plant DNA, students learn many basic techniques in plant biotechnology.
Prerequisite: (AGR 3303 or HOS 3305) and PCB 3063.

HOS 4332C Principles of Postharvest Horticulture 3 Credits
Grading Scheme: Letter Grade
Biological principles involved in harvesting, grading, packaging, transportation, and marketing horticultural crops, and their effects on quality maintenance. Commercial postharvest practices explained in relation to general procedures and technologies as well as the recommended postharvest best handling practices and optimum postharvest conditions for different types of horticultural crops.
Prerequisite: HOS 4304.

HOS 4341 Advanced Horticultural Physiology 3 Credits
Grading Scheme: Letter Grade
Environmental effects (light, temperature and water) on physiology, growth and development of plants.
Prerequisite: HOS 4304.

HOS 4900 Supervised Extension Experience in Horticultural Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

HOS 4905 Independent Study in Horticultural Science 1-6 Credits
Grading Scheme: Letter Grade
Selected research topics in molecular biology, physiology and/or genetics of horticultural crops.

HOS 4911 Supervised Research in Horticultural Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic research in horticultural sciences under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

HOS 4915 Honors Thesis Research in Horticultural Sciences 0-3 Credits
Grading Scheme: S/U
Independent research in horticultural sciences leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

HOS 4918 Capstone Planning in Horticultural Sciences 1 Credit
Grading Scheme: S/U
Focuses on planning service learning, scientific research, cooperative extension, or industry liaison projects for the Horticultural Sciences capstone. Also fosters reflection of academic and professional development in the major.
Prerequisite: HOS 4933.

HOS 4921 Horticultural Sciences Capstone 2-4 Credits
Grading Scheme: S/U
Focuses on executing service learning, scientific research, cooperative extension, or industry liaison projects designed during capstone planning. Perfect professional portfolios and present the outcomes of the capstone project.
Prerequisite: HOS 4918.

HOS 4932 Special Topics in Horticultural Sciences 1-3 Credits
Grading Scheme: Letter Grade
Critical review of selected topics in specific areas not covered in other horticultural sciences courses.
Prerequisite: instructor permission.

HOS 4933 Professional Development in Horticulture 1 Credit
Grading Scheme: Letter Grade
Professional skills development, including job searching, resume writing, interview skills, professional etiquette, communications and salary negotiations.

HOS 4941 Practical Work Experience in Horticultural Sciences 1-4 Credits
Grading Scheme: S/U
Practical work that must be a new experience and related to the field of study. (S-U)
Prerequisite: advisor arrangement and permission.

PLS 3421C Hydroponic Systems 3 Credits
Grading Scheme: Letter Grade
This course offers students foundational information and hands-on experience on hydroponic and soilless cultivation of horticultural crops. Production practices, growing systems, new technologies and current challenges are discussed.
Prerequisite: HOS 3020C or PLS 3004C.

VEC 2100 World Herbs and Vegetables 3 Credits
Grading Scheme: Letter Grade
Introduces a variety of vegetables and culinary herbs. Emphasizes genetic, phytochemical and botanical diversity and importance of food phytochemicals and role of vegetables in nutrition. (B)
Attributes: General Education - Biological Science

VEC 3221C Vegetable Production 4 Credits
Grading Scheme: Letter Grade
Principles and practices of successful commercial vegetable production, including crop requirements, growth patterns and production techniques along with consumption/marketing patterns and U.S./Florida production areas.

WDS 4001 Organic Weed Management 3 Credits
Grading Scheme: Letter Grade
Apply ecological principles in agroecosystems to manage weeds sustainably. Emphasizes alternative weed management approaches that are less dependent on herbicides and utilize ecological processes detrimental to weeds and their propagules. Learn actively by critically analyzing pertinent literature and participating in discussions of supplemental reading.
Prerequisite: HOS 3020C or ALS 3153.

Hungarian | European Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

HNG 1130 Beginning Hungarian 1 5 Credits
Grading Scheme: Letter Grade
This course and its sequel, HNG 1131, constitute the basic sequence in Hungarian.

HNG 1131 Beginning Hungarian 2 5 Credits
Grading Scheme: Letter Grade
Second semester of basic sequence in Hungarian.
Prerequisite: HNG 1130 with minimum grade of C, or S, or the equivalent.

HNG 1180 Elementary Hungarian: Review and Progress 1 3 Credits
Grading Scheme: Letter Grade
Alternative to HNG 1130, for students who have some experience in Hungarian. Reviews basic grammar and improves reading, writing and listening skills.

HNG 1182 Elementary Hungarian: Review and Progress 2 3 Credits
Grading Scheme: Letter Grade
An accelerated one-semester coverage of HNG 1130 and HNG 1131 for students with some experience in Hungarian.
Prerequisite: instructor permission.

Industrial and Systems Engineering

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

COP 2271 Computer Programming for Engineers 2 Credits
Grading Scheme: Letter Grade
Computer programming and the use of computers to solve engineering and mathematical problems. Emphasizes applying problem solving skills; directed toward technical careers in fields employing a reasonably high degree of mathematics. The programming language used depends on the demands of the departments in the college. Several languages may be taught each semester, no more than one per section. Those required to learn a specific language must enroll in the correct section. (M)
Prerequisite: MAC 2312 with minimum grade of C.

COP 2271L Computer Programming for Engineers Laboratory 1 Credit
Grading Scheme: Letter Grade
Optional laboratory for COP 2271. Required for ISE majors. (M)
Prerequisite: MAC 2312;
Corequisite: COP 2271.

EGN 1935 Special Topics in Freshman Engineering 1-3 Credits
Grading Scheme: Letter Grade
Laboratory, lectures or conferences cover selected topics in engineering.

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGN 4930 Sales Engineer Seminar 1 Credit
Grading Scheme: S/U
Intended for those interested in pursuing a career in sales engineering (required for students enrolled in the sales engineering certificate program). Lectures and discussions on practice-oriented sales engineering topics. (S-U)

EGS 1005 Prep for Success 1-4 Credits
Grading Scheme: S/U
Freshman success course that includes academic preparation in calculus, chemistry, student success and technical communications. (S-U)
Prerequisite: EG student.

EGS 1006 Introduction to Engineering 1 Credit
Grading Scheme: Letter Grade
Introduces the 11 departments that offer undergraduate degrees at UF. Students break into groups of 20, rotating weekly through each department. During these visits, students participate in hands-on experiments to help them make informed decisions about career alternatives.

EIN 3101C Introduction to Industrial and Systems Engineering 2 Credits
Grading Scheme: Letter Grade
Introduction and overview of the profession, including career planning, professionalism and communication, ethics, teamwork, industry site visits, industrial speakers, and selected solution methods for problems in coordination and planning.
Prerequisite: ENC 3254 with a minimum grade of C.

EIN 3354 Engineering Economy 3 Credits
Grading Scheme: Letter Grade
Basic principles and applications of economic decision-making between alternatives encountered in engineering systems projects. Analysis includes methodologies of economics and finance in addition to engineering fundamentals.
Prerequisite: MAC 2312 with a minimum grade of C.

EIN 4210 Occupational Safety Engineering 3 Credits
Grading Scheme: Letter Grade
Safety history and litigation; accident causation; safety organizations and agencies. Approaches to occupational safety and risk management. Product defects and safety program development; product liability; consumer product safety commission. Hazard communication standard. Workers? compensation. OSHA safety standards and codes; OSHA record keeping. Common occupational hazards.
Prerequisite: PHY 2049 and STA 4321 with minimum grades of C.

EIN 4321 Industrial Energy Management 3 Credits
Grading Scheme: Letter Grade
Introduces energy conservation. Supply-demand data, energy economics, investment analysis and energy legislation. Audits, waste heat recovery, cogeneration and computerized energy management systems.
Prerequisite: EIN 4354 and PHY 2049 with minimum grades of C.

EIN 4335 Senior Design Project 3 Credits
Grading Scheme: Letter Grade
Integration of industrial and systems engineering methodologies; emphasizes methods of successful implementation. Project and case-study oriented.
Prerequisite: (ESI 4312 and ESI 4313 and ESI 4523 and STA 4322 and ESI 4356 and EIN 4354 and EGS 4034 with minimum grades of C) and fifth year senior in Engineering.

EIN 4343 Inventory and Supply Chain Systems 3 Credits
Grading Scheme: Letter Grade
Develops analytic abilities to formulate and solve inventory and logistics problems faced by today's firms. Learn to take a comprehensive view of complex inventory and supply-chain systems; develop abilities to model, optimize and design such systems.
Prerequisite: ESI 4312 and ESI 4313 with minimum grades of C.

EIN 4360C Facility Planning and Work Design 4 Credits
Grading Scheme: Letter Grade
Introduces fundamental concepts in several main areas of industrial engineering such as facility planning, material handling systems, work analysis and design. Covers topics such as analysis and design of work space and flow, facility location and layout, material handling systems, motion and time studies and work sampling.
Prerequisite: (ENC 3250 or ENC 3254) and EML 2023 or equivalent with minimum grades of C.
Corequisite: EIN 4354.

EIN 4451 Lean Production Systems 3 Credits
Grading Scheme: Letter Grade
Design of flow line, cellular and flexible manufacturing systems. Design and control of lean manufacturing systems. Continuous improvement, small lot production, setup-time reduction, equipment improvement and maintenance. Principles and control of push and pull manufacturing systems. Production planning and operations scheduling.
Prerequisite: ESI 4312 and STA 4321.

EIN 4905 Special Problems in Industrial and Systems Engineering 1-4 Credits
Grading Scheme: Letter Grade
Problems and systems studies associated with honors programs representing undergraduate research. Selected advanced topics including new developments and techniques in industrial and systems engineering.

EIN 4912 Integrated Product and Process Design 1 3 Credits
Grading Scheme: Letter Grade
The first part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.
Prerequisite: EIN 4354 and EIN 4360C with minimum grades of C;
Corequisite: ESI 4221C with minimum grade of C.

EIN 4913 Integrated Product and Process Design 2 3 Credits
Grading Scheme: Letter Grade
Second part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget.
Prerequisite: EGS 4034 with a minimum grade of C and Engineering major of junior standing or higher.

EIN 4937 Industrial and Systems Engineering Seminar 1 Credit
Grading Scheme: S/U
Lectures and discussions on general and specific engineering problems. Individual investigations and research reports on assigned topics. Orientation for an industrial career. (S-U)
Prerequisite: 3EG or 4EG standing in industrial and systems engineering.

EIN 4944 Practical Work in Industrial and Systems Engineering 1-3 Credits
Grading Scheme: S/U
One term of industrial employment, including extra work according to a preapproved outline. Practical engineering work under industrial supervision as set forth in the Herbert Wertheim College of Engineering regulations. (S-U)
Prerequisite: 4EG classification and EGS 4034 with a minimum grade of C.

ESI 3312 Operations Research 1 4 Credits
Grading Scheme: Letter Grade
Introduces optimization modeling, algorithms, and software to aid in the analysis and solution of decision-making problems.
Prerequisite: ESI 3327C with minimum grade of C.

ESI 3327C Matrix and Numerical Methods in Systems Engineering 4 Credits
Grading Scheme: Letter Grade
Theory and application of vector, matrix, and other numerical methods to systems problems. Simultaneous linear equations, characteristic values, quadratic forms, error analysis, use of series, curve fitting, nonlinear equations, and discrete methods. Laboratory emphasizes numerical solutions using MATLAB.
Prerequisite: MAC 2313 and MAP 2302 with minimum grades of C.

ESI 4221C Industrial Quality Control 3 Credits
Grading Scheme: Letter Grade
Factors affecting variation in product quality; use of control charts to evaluate and control manufacturing processes. Techniques for acceptance and reliability testing. Laboratory exercises illustrate the operation and control of manufacturing processes and hazard function. Typical failure distributions, redundant systems, models of repair and maintenance.
Prerequisite: STA 4321 and STA 4322 with minimum grades of C.

ESI 4313 Operations Research 2 4 Credits
Grading Scheme: Letter Grade
Introduces stochastic models and methodologies for analyzing and providing solutions to decision-making problems with uncertainties.
Prerequisite: ESI 4327C and STA 4321 with minimum grades of C.

ESI 4356 Decision Support Systems for Industrial and Systems Engineers 4 Credits
Grading Scheme: Letter Grade
Applications of decision support systems in industrial and systems engineering; developing and implementing decision support systems arising in industrial and systems engineering using popular database management and spreadsheet software.
Prerequisite: COP 2271 and ESI 4312 with minimum grades of C.

ESI 4357 Web-Based Decision Support Systems for Industrial and Systems Engineers 4 Credits
Grading Scheme: Letter Grade
Introduces the Internet and e-commerce; Internet tools and technologies necessary for the development of web-based decision support systems; designing and implementing web-based decision support systems arising in the practice of industrial and systems engineering using popular software packages.
Prerequisite: COP 2271 and ESI 4312 with minimum grades of C.

ESI 4523 Industrial Systems Simulation 3 Credits
Grading Scheme: Letter Grade
Simulation methodology and languages, such as General Purpose Simulation System (GPSS). Design and analysis of simulation experiments as well as applications to solutions of industrial and service system problems.
Prerequisite: COP 2271 and STA 4322

ESI 4949 Co-Op Work Experience 1 Credit
Grading Scheme: S/U
Practical engineering work under industrial supervision, as set forth in the Herbert Wertheim College of Engineering regulations. (S-U)
Prerequisite: EGS 4034 with a minimum grade of C.

Information Systems and Operations Management

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

ISM 3004 Computing in the Business Environment 4 Credits
Grading Scheme: Letter Grade
Presents fundamental concepts from two perspectives: the individual business computer user and the corporate business computing environment. Introduces common business computing applications; this is not a hands on applications training course. Students use their existing computer skills to complete assignments.
Prerequisite: basic skills for Microsoft Word, PowerPoint, and Excel.

ISM 3013 Introduction to Information Systems 4 Credits
Grading Scheme: Letter Grade
Introduces the role of information systems and technology in an organization with a focus on the use of Access and Excel to solve business problems. Receive the knowledge necessary to earn Microsoft certifications in Access and Excel.
Prerequisite: MAC 2311 or MAC 2233, and sophomore standing.

ISM 3254 Business Systems 1 2 Credits
Grading Scheme: Letter Grade
Introduces the basic tools for building business systems using object-oriented and event-driven programming paradigms. Emphasizes using Java to illustrate these ideas.

ISM 3255 Business Systems 2 2 Credits
Grading Scheme: Letter Grade
Continuation of the course sequence to develop the basic tools for building business systems using object-oriented and event-driven programming paradigms. Emphasizes using C# to illustrate these ideas.
Prerequisite: ISM 3254.

ISM 4113 Business Systems Design and Applications 2 Credits
Grading Scheme: Letter Grade
Conceptual foundations of the process, data and object oriented approaches for the analysis and design of business systems. Systems development life cycle, rapid application design, CASE tools also covered.

ISM 4210 Database Management 2 Credits
Grading Scheme: Letter Grade
Introductory database management. Topics include various stages in a database development process such as conceptual, logical, application and physical design.
Prerequisite: ISM 4113.

ISM 4220 Business Data Communications 1 2 Credits
Grading Scheme: Letter Grade
Various aspects of telecommunication systems, the use of local and wide area networks, the Internet, wireless technologies and distributed systems for decision making and strategic management questions relating to business goals, long-range planning and budgeting.

ISM 4221 Business Data Communications 2 2 Credits
Grading Scheme: Letter Grade
Helps gain insights into network security; exposure to various security algorithms and techniques via hands-on experience with projects and homework assignments.
Prerequisite: ISM 4220.

ISM 4330 Information Systems and Operations Strategy 2 Credits
Grading Scheme: Letter Grade
Policy and management issues surrounding information systems and operations management in today's enterprises.
Prerequisite: ISM 4113, ISM 4210 and ISM 4220.

ISM 4930 Special Topics in Information Systems 1-4 Credits
Grading Scheme: Letter Grade
Variable content provides an opportunity for in-depth study of topics not offered in other courses and of topics of special current significance.
Prerequisite: department permission.

MAN 4504 Operations and Supply Chain Management 4 Credits
Grading Scheme: Letter Grade
Managerial concepts and quantitative tools required in the design, operation, and control of production systems and their relationship to business functions.
Prerequisite: BUL 4310, FIN 3403, GEB 3373, MAC 2233, MAN 3025, MAR 3023, QMB 3250 and STA 2023; BA and AC majors only.

MAN 4538 Integrated Product and Process Design 1 3 Credits
Grading Scheme: Letter Grade
The first part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.
Prerequisite: senior standing.

MAN 4539 Integrated Product and Process Design 2 3 Credits
Grading Scheme: Letter Grade
Continuation of the two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes, on time and within budget..
Prerequisite: MAN 4538.

QMB 3250 Statistics for Business Decisions 4 Credits
Grading Scheme: Letter Grade
Correlation and linear regression, model building, multiple regression, analysis of variance, time series analysis and decision analysis. Regression modeling with computer applications for business problems.
Prerequisite: STA 2023. Open only to students who need this course for their major or who have permission from the WCBA.

QMB 4701 Managerial Operations Analysis 1 2 Credits
Grading Scheme: Letter Grade
Introduces the concepts and applications of management science; become more confident in understanding and using deterministic analytic models.
Prerequisite: MAC 2233 and STA 2023.

QMB 4702 Managerial Operations Analysis 2 2 Credits
Grading Scheme: Letter Grade
Overview of stochastic applications of management science; learn stochastic modeling techniques and introductory visual basic.
Prerequisite: QMB 4701.

QMB 4905 Individual Work in Information Systems and Operations Management 1-5 Credits
Grading Scheme: Letter Grade
Reading and/or research in information systems and operations management. A written report is required.
Prerequisite: senior standing and department permission.

QMB 4930 Special Topics in Operations Analysis/Quantitative Methods 1-4 Credits
Grading Scheme: Letter Grade
Variable content provides an opportunity for in-depth study of topics not offered in other courses and of topics of special current significance.
Prerequisite: department permission.

QMB 4941 Internship in Information Systems and Operations Management 1-3 Credits
Grading Scheme: S/U
Applied work in information systems and operations management. Requires several papers and reports. Counted as free-elective credit only. (S-U)
Prerequisite: department chair permission.

QMB 4956 International Studies in Quantitative Methods 1-4 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: admission to an approved study abroad program and department permission.

QMB 4970 Honors Thesis 1 Credit
Grading Scheme: S/U
A thesis is required for award of magna cum laude or summa cum laude designations. To qualify, students normally must have completed 90 semester credits of coursework (exceptions may be made) and must have at least a 3.6 GPA at the time they enroll. The thesis will be reviewed by at least one faculty member chosen by the honors coordinator from the student's major department. (S-U)
Prerequisite: 90 credits earned and 3.6 UF GPA.

Innovation Academy

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Courses

ENT 4015 The Venture Accelerator 2 Credits
Grading Scheme: Letter Grade
A team-based, experiential program focused on the start-up process; includes lectures, readings, discussions, workshops, and a team-based project. As deliverables, each team must deliver weekly lessons-learned presentations, complete business canvas updates, and prepare a final presentation.
Prerequisite: ENT 3003 or EGN 4641.

IDH 4940 Internship 1-6 Credits
Grading Scheme: S/U
Experiential learning in a variety of work locations. Permission of program director required. Supervision by a faculty member or delegated authority, daily journal and a post-internship report are required. (S-U).

IDS 1359 Creativity in Action 2 Credits
Grading Scheme: Letter Grade
Focuses on the development of creative problem-solving strategies through completion of an innovative project. Students will and refine the proposal developed in IDS 1353, they will prototype the concept, test and refine the prototype, and complete and present the final project.
Prerequisite: Admission to the Innovation Academy and IDS 1353.

IDS 1940 Creativity in Context 2-4 Credits
Grading Scheme: Letter Grade
Examines the theoretical groundwork and evolution of psychologically-based research on dimensions of the creative person, process, product and press. This foundation frames the applied learning in the course and offers the necessary background for subsequent coursework in the Innovation Academy minor.
Prerequisite: Admission to the Innovation Academy.

IDS 4941 Innovation Academy Internship 1-6 Credits
Grading Scheme: Letter Grade
Experiential learning enables participation in an innovative internship that supplements the degree program. Supervised by a faculty member or designated authority, seven online assignments are required for successful completion.
Prerequisite: One full academic year (spring/summer) in the Innovation Academy and program director permission.

IDS 4950 Innovation Academy Senior Project 2 Credits
Grading Scheme: Letter Grade
Using lectures, labs and a multidisciplinary team-based project approach, build life skills in creativity and innovation, entrepreneurship and entrepreneurial thinking. Synthesize and demonstrate leadership and ethics through design and development of a team project.
Prerequisite: senior standing and enrolled in the Innovation minor.

PHI 3641 Conduct, Change and Consequences: Making Ethical Decisions 3 Credits
Grading Scheme: Letter Grade
Grounding in ethical theory and moral reasoning with a focus on changes at both organizational and societal levels, including, for instance, technological innovations, new business practices and legal changes. Examines the rights and responsibilities of those making such changes as well as the conditions that facilitate responsible decision making. (H, WR4)
Prerequisite: sophomore or higher standing or PHI 2010 or PHI 2100 or PHI 2630 or PHM 2204 or philosophy major or minor or innovation academy minor or instructor permission.
Attributes: General Education - Humanities, Satisfies 4000 Words of Writing Requirement

Interdisciplinary Studies

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Courses

IDS 1161 What is the Good Life 3 Credits
Grading Scheme: Letter Grade
Examines the enduring question, "What is the Good Life?", from the perspectives of the humanities. Topics include the cost of the good life, how people have chosen to live as members of local and global communities, and conceptions and expressions of beauty, power, love, and health. (H)
Attributes: General Education - Humanities

IDS 2154 Facets of Sustainability 3 Credits
Grading Scheme: Letter Grade
Introduces theory and practices of sustainability from a variety of topical concerns and academic fields. Investigate challenges of pursuing sustainability via texts, lectures, debate and discussion, and written assignments.

IDS 2338 Democratic Engagement and Public Leadership 3 Credits
Grading Scheme: Letter Grade
Reflections on the concept of citizenship in the US and internationally. Learn to analyze and to solve public problems and effectively evaluate methods of civic activism. (S)
Attributes: General Education - Social Science

IDS 4905 Individual Study 1-7 Credits
Grading Scheme: Letter Grade
Opportunity for more in-depth study; complete a project as part of the planned program. The project must be approved by the dean and carried out under the guidance of a faculty member.

IDS 4906 Interdisciplinary Thesis Research 1-12 Credits
Grading Scheme: Letter Grade
Research accommodation for thesis. (WR)
Corequisite: refer to the department.
Attributes: Satisfies 6000 Words of Writing Requirement

IDS 4911 Undergraduate Research in Interdisciplinary Studies 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Interdisciplinary Studies. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Interdisciplinary Studies.

IDS 4930 Special Topics in Interdisciplinary Studies 1-3 Credits
Grading Scheme: Letter Grade
Advanced study of selected topics. Content varies from term to term.

IDS 4940 Internship 1-3 Credits
Grading Scheme: S/U
Supervised internship under guidance of faculty member or delegated authority. Post-internship written report is required. (S-U)

IDS 4942 Sustainability in Action 3 Credits
Grading Scheme: S/U
Capstone course that integrates readings, discussion and practical experience in a sustainability-related community service, internship or project.
Prerequisite: sustainability studies majors and minors with department approval.

IDS 4956 Overseas Studies 0-16 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

INS 3004 International Studies Perspectives 3 Credits
Grading Scheme: Letter Grade
Demographics, cultures, governments and histories of major world regions as these relate to major, current, transnational and global issues such as migration, socio-economic development, conflicts and disasters, and environmental issues.
Prerequisite: completion of at least 3 courses approved for the international studies major.

INS 4905 Individual Work in International Studies 0-3 Credits
Grading Scheme: Letter Grade
Provides those in the major with a directed opportunity to pursue in depth an area of focus associated with international studies including regional and topical coursework, international study abroad, service-learning projects, and/or internship projects.
Prerequisite: INS 3004.

INS 4911 Undergraduate Research in International Studies 0-3 Credits
Grading Scheme: Letter Grade
Provides an opportunity to undertake supervised research. Self-directed research allows individuals or groups to explore interesting issues in international studies and communicate their results.

INS 4930 Senior Research Seminar in International Studies 3 Credits
Grading Scheme: Letter Grade
Readings on and discussions of major contemporary international and global issues. Offers students the opportunity to conduct guided research on international topics of their choice that relate to their track(s) and study, internships or work abroad experiences for the international studies major.
Prerequisite: INS 3004 and senior standing.

ISS 2160 Cultural Diversity in the United States 3 Credits
Grading Scheme: Letter Grade
The great racial and ethnic diversity of contemporary U.S. society. Explores both the positive contributions and negative experiences of a variety of racial and ethnic groups, an exploration drawing on such concepts as culture, racial group, ethnic group, prejudice, discrimination and civil rights protest. (D and S) (WR)
Attributes: General Education - Diversity, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

Interior Design

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

IND 1020 Design Innovation 3 Credits
Grading Scheme: Letter Grade
Overview of the interior design profession. The design of interiors to enhance human activity while observing life safety codes and human performance. Examines significant interiors and furniture components in the design process. (H)
Attributes: General Education - Humanities

IND 2100 History of Interior Design 1 3 Credits
Grading Scheme: Letter Grade
History of interior spaces, design philosophy, interior elements in architectural and sociological context. Record of human achievement expressed in the built environment. Foundation for contemporary design and interior preservation practice. Ancient world through early nineteenth century. Slide lecture, discussion, outside research. (H and N)
Attributes: General Education - Humanities, General Education - International

IND 2130 History of Interior Design 2 3 Credits
Grading Scheme: Letter Grade
Continues the history of interior design. Evolution of contemporary design philosophy. Foundation for contemporary design and interior preservation practice. Nineteenth century revivals through current developments. Slide lecture, discussion, outside research. (H and N)
Prerequisite: IND 2100.
Attributes: General Education - Humanities, General Education - International

IND 2214 Introduction to Architectural Interiors 4 Credits
Grading Scheme: Letter Grade
Introduces the design of micro interior environments in relation to the architectural setting. Studies human perception, dimension, and spatial activity requirements. Explores design process and the graphic communication of interior design ideas.
Prerequisite: ARC 2303.

IND 2313 Interior Design Communication Systems 3 Credits
Grading Scheme: Letter Grade
Conceptual process, design theory and programmatic concerns involved in residential, institutional and commercial interior design. Emphasizes visual communications techniques including explanation of media and the forms of visual communication of design concepts.
Prerequisite: ARC 1302.

IND 2422 Interior Finishes and Materials 3 Credits
Grading Scheme: Letter Grade
Studies interior materials, focusing on their characteristics and estimating, fabrication and installation.
Prerequisite: interior design majors only.
Corequisite: ARC 2303.

IND 2460C Computer Applications in Three Dimensional Design 3 Credits
Grading Scheme: Letter Grade
Introduces the microcomputer as a tool for interior design illustration, drafting and design development. A fundamental computer graphics course for interior design students, building skills and technical knowledge in image processing, two-dimensional drawing and three-dimensional modeling of building interiors.
Prerequisite: CGS 2470 and interior design majors only.

IND 2635 Design Environments and Human Interaction 3 Credits
Grading Scheme: Letter Grade
Introduces significant theories concerning the interaction of people with environments at various scales. Also explores the corresponding applied environmental design implications of these theories. This survey of normative theories, philosophies and doctrines of environment and behavior serve as an evidence base to support research-based design decisions. (WR)
Prerequisite: ARC 2303 and interior design majors only.
Attributes: Satisfies 6000 Words of Writing Requirement

IND 3215 Architectural Interiors 1 5 Credits
Grading Scheme: Letter Grade
Development of interior spaces from conceptual phases to final design resolution, based on interior considerations and external influences. Emphasizes three-dimensional design process and detailed graphic representation of designed spaces.
Prerequisite: ARC 2214.

IND 3216 Architectural Interiors 2 5 Credits
Grading Scheme: Letter Grade
Conceptual process, design theory and programmatic concerns involved in residential, commercial and institutional interior design. Emphasizes professional applications and the interior designer as an environmental problem solver.
Prerequisite: IND 3215.

IND 3311C Color Theory Planning and Practice 3 Credits
Grading Scheme: Letter Grade
Explores the power of color in our human experience and examination of the art and science of color theory in the context of interior design and allied fields.

IND 3431 Interior Lighting 3 Credits
Grading Scheme: Letter Grade
Introduces lighting design based upon a critical awareness of the luminous environment, and principles and perception of light and color. Graphic exercises in lighting design, documentation and lighting calculations based on student solutions.
Prerequisite: IND 3215.

IND 3468 Interior Environmental Technologies 3 Credits
Grading Scheme: Letter Grade
Considers interior environmental conditions in relation to human sensory reactions, psychological factors, health, safety and satisfaction. Relates the vocabulary and concepts of interior environmental technology to the process of interior design.
Prerequisite: IND 2214.

IND 3483 Interior Design Construction Documents 4 Credits
Grading Scheme: Letter Grade
Systematic overview of construction systems, technologies and materials with emphasis on the design of interior systems and the detailing of these systems as an extension of the overall design concept.
Prerequisite: IND 2214.

IND 3512 Professional Practice of Interior Design 3 Credits
Grading Scheme: Letter Grade
Consideration of office practices and design project management. Explores contract documents, associated legal aspects, marketing strategies, professional ethics, staff personnel practices and career planning. Integration of computer software for project scheduling and time management. A case study exploration of ethics and contracting for design services is used. Studies integration of appropriate computer software for office management and project scheduling.
Prerequisite: interior design majors only.
Corequisite: IND 3216.

IND 3627 Sustainable Interior Environments 3 Credits
Grading Scheme: Letter Grade
Designed for students seeking an understanding of sustainable interior environments. Introduces best practices, current trends and case studies in various interior settings. Explores key elements of sustainability including environmental history, indoor sustainable development, waste management, energy consumption and water conservation.
Prerequisite: junior standing.

IND 3905 Individual Studies in Interior Design 1-6 Credits
Grading Scheme: Letter Grade
Special areas of study in interior design adjusted to the needs of the individual student.
Prerequisite: department chair permission.

IND 4225 Advanced Architectural Interiors 1 6 Credits
Grading Scheme: Letter Grade
Advanced problems in interior design with respect to the needs of the sophisticated clients in urban settings, ranging from the infrastructure of large urban spaces to the details of individual interior spaces, including open office planning and design of public spaces.
Prerequisite: IND 3216.

IND 4226 Advanced Architectural Interiors 2 6 Credits
Grading Scheme: Letter Grade
Design problems involving multiple phases of the design process through final design and detailing of each project. Final project demonstrates highest levels of design development.
Prerequisite: IND 4225.

IND 4450C Advanced Interior Design Detailing and Construction Documents 4 Credits
Grading Scheme: Letter Grade
Advanced problems in design and detailing of interior finish systems such as interior architecture and cabinetry. Exploration and production of interior mechanical and millwork drawings and construction documents. Integration of building codes and life safety issues.
Prerequisite: IND 3216;
Corequisite: IND 4225.

IND 4930 Special Topics 1-6 Credits
Grading Scheme: Letter Grade
Special topics seminar in interior design. Enrollment upon recommendation of department chair.
Prerequisite: IND 3215.

IND 4940 Design Field Experience 2-4 Credits
Grading Scheme: S/U
Provides opportunities to work in architectural and interior design offices gaining hands-on professional experience working up to 12 weeks. (S-U)
Prerequisite: IND 3216 and IND 3483 and IND 3512.

Italian | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

ITA 1130 Beginning Italian 1 5 Credits
Grading Scheme: Letter Grade
ITA 1130 and its sequel, ITA 1131, constitute the basic sequence in Italian. Emphasis on the development of broad competence in the language. Oral-aural approach ensures competence in the four skills.

ITA 1131 Beginning Italian 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence in Italian. Emphasis on the development of broad competence in the language. Oral-aural approach ensures competence in the four skills.
Prerequisite: ITA 1130 with minimum grade of C, or S, or the equivalent.

ITA 2220 Intermediate Italian 1 4 Credits
Grading Scheme: Letter Grade
Enhances knowledge of Italian in all four skills: listening, reading, speaking and writing. The goal is to create communicative competence that enables students to advance to third year study and to benefit from their visits to Italy. (H and N)
Prerequisite: ITA 1131 or the equivalent.
Attributes: General Education - Humanities, General Education - International

ITA 2221 Intermediate Italian 2 4 Credits
Grading Scheme: Letter Grade
Completes second year sequence with emphasis on composition, literature and communication skills. (H and N)
Prerequisite: ITA 2220 or the equivalent.
Attributes: General Education - Humanities, General Education - International

ITA 3070 Accelerated Introduction to Italian 5 Credits
Grading Scheme: Letter Grade
Intensive course designed primarily for speakers or students with knowledge of another Romance language or strong linguistic abilities in another foreign language. Assumes no prior study of Italian and offers a complete four-skill (listening, speaking, reading and writing) introduction to the language.
Prerequisite: fourth semester of another romance language or instructor permission.

ITA 3224 Italian Enhancement Section 1-5 Credits
Grading Scheme: Letter Grade
Italian-language reading and discussion to accompany and complement courses in other departments. Readings and discussions are in Italian to develop vocabulary and fluency related to the content of the companion course and to provide an international perspective on the issues of the main course. (N)
Prerequisite: ITA 2221 or instructor permission. Not for credit in the major.
Attributes: General Education - International

ITA 3420 Grammar and Composition 1 3 Credits
Grading Scheme: Letter Grade
Intensive language course designed to master grammatical principles, increase vocabulary and enhance writing and composition skills.
Prerequisite: ITA 2221 or equivalent.

ITA 3500 Italian Civilization 3 Credits
Grading Scheme: Letter Grade
Variable topics class that introduces Italian civilization in historical, artistic and literary contexts. (H and N)
Prerequisite: ITA 2221 or the equivalent, or section coordinator or undergraduate advisor permission.
Attributes: General Education - Humanities, General Education - International

ITA 3564 Contemporary Italian Culture 3 Credits
Grading Scheme: Letter Grade
Variable topics class focusing on modern Italy through literature, art and mass media, and current events. (H and N)
Prerequisite: ITA 2221 or the equivalent, or section coordinator or undergraduate advisor permission.
Attributes: General Education - Humanities, General Education - International

ITA 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
For advanced minors who seek independent work not offered in another course. Must be arranged individually with Italian faculty. Only three credits can count toward the minor.
Prerequisite: program coordinator permission.

ITA 4911 Undergraduate Research in Language or History/Culture in Italian 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

ITT 2530 Italian Literature and Film 3 Credits
Grading Scheme: Letter Grade
Study of modern Italian narrative and its adaptation to film by major Italian directors. (H and N)
Attributes: General Education - Humanities, General Education - International

ITT 3431 Italy and Pilgrimages 3 Credits
Grading Scheme: Letter Grade
Through lectures, readings and discussions in English, ITT 3431 considers the continuing presence of Rome and other Italian cities as metaphors and focal points of Italian artistic and literary sensibilities. (H and N)
Attributes: General Education - Humanities, General Education - International

ITT 3521 Italian Cinema 4 Credits
Grading Scheme: Letter Grade
Critical and historical study of Italian film and directors. Topics may vary. (H and N)
Attributes: General Education - Humanities, General Education - International

ITT 3540 Murder Italian Style: Crime Fiction and Film in Italy 3 Credits
Grading Scheme: Letter Grade
Explores Italian crime fiction and film. Analysis considers specificity of Italian tradition while placing texts and films in a broader cultural and historical context, enabling critically and politically informed reading of the many applications and subversions of the generic formula. Taught in English.
Prerequisite: sophomore standing or instructor permission.

ITT 3541 Gangsters and Godfathers: Italian Mafia Movies 3 Credits
Grading Scheme: Letter Grade
Examines Italian cinematic representations of organized criminality, in particular Sicilian Cosa Nostra and Neapolitan Camorra. Analysis considers specificity of Italian tradition while placing films in a broader history of the gangster genre to allow for a critically and politically informed reading of Italian generic subversions. Taught in English.
Prerequisite: Sophomore standing or instructor permission.

ITT 3700 The Demolition of Man: Italian Perspectives on the Jewish Holocaust 3 Credits
Grading Scheme: Letter Grade
Explores a sampling of Italys texts on the Jewish Holocaust, centering on the work of survivor and theorist of the camps, Primo Levi. Material also encompasses the history of the Italian-Jewish community as well as a selection of Italian films dealing with the realities and ethical implications of the camps.
Prerequisite: sophomore standing or instructor permission.

ITT 3930 Special Topics in Italian Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Selected topics in Italian literature, civilization and culture, including crossover influence of media. Can focus on one epoch's influence on another.

ITT 4911 Undergraduate Research in Italian in English Translation 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

ITT 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

ITW 3100 Introduction to Italian Literature 1 3 Credits
Grading Scheme: Letter Grade
The origins of early Italian literature, its central themes and the cultural factors that influenced its development. Develops an ability to read in Italian and to read critically. (H)
Prerequisite: ITA 2221 or the equivalent, or section coordinator or undergraduate advisor permission.
Attributes: General Education - Humanities

ITW 3101 Introduction to Italian Literature 2 3-9 Credits
Grading Scheme: Letter Grade
The major Italian authors from the Renaissance through the 20th century. (H)
Prerequisite: ITA 2221 or the equivalent, or section coordinator or undergraduate advisor permission.
Attributes: General Education - Humanities

ITW 3310 Italian Play 3 Credits
Grading Scheme: Letter Grade

ITW 3500 Boccaccio's Decameron 3 Credits
Grading Scheme: Letter Grade
Analysis of Giovanni boccaccios canonical decameron with a focus on the literary Dimension of Text as well as the political, historical, and religious context in which the work was written.
Prerequisite: ITA 2221 or the equivalent.

ITW 4026C Representing the Humble Italy: Literature and Cinema of the Italian South 3 Credits
Grading Scheme: Letter Grade
Examines texts and films that address the so-called Southern Question; namely, the socioeconomic and cultural disparities between northern and southern Italy. Explores or contests topics and concepts including southern exclusion from official history, southern fusion of religion and superstition, resistance to modernity and mafia-related political corruption. Taught in Italian.
Prerequisite: ITA 3420, ITA 3500, ITA 3564, ITW 3100 or ITW 3101, or instructor permission.

ITW 4253 Delitto all'italiana: Crime Fiction and Film in Italy 3 Credits
Grading Scheme: Letter Grade
Explores a sampling of Italian crime fiction and film through the lens of a range of conceptual categories, including British intellectual model vs. American noir; rational inquiry vs. uncertainties of sensory perception; canon vs. popular; cosmopolitan vs. provincial; order vs. chaos; political conservatism vs. social critique. Taught in Italian.
Prerequisite: ITA 3420, ITA 3500, ITA 3564, ITW 3100 or ITW 3101, or instructor permission.

ITW 4491 Italian Theater from the Renaissance to the Early Modern Era 3 Credits
Grading Scheme: Letter Grade
Overview and analysis of evolution of Italian theater, with focus on a selection of specific examples drawn from Italian theater from the Renaissance to the early modern era. Taught in Italian.
Prerequisite: ITA 3420, ITA 3500, ITA 3564, ITW 3100 or ITW 3101, or instructor permission.

ITW 4526 Mad Love in Modern Italian Literature 3 Credits
Grading Scheme: Letter Grade
Exploration of a sampling of modern Italian literary manifestations of a love that strays beyond the conventional. Language skills addressed through discussion, oral presentations, creative writing assignments, and short papers.
Prerequisite: ITA 3420, ITA 3500, ITA 3564, ITW 3100 or ITW 3101, or instructor permission.

ITW 4580 Animals and Animality in Italian Culture 3 Credits
Grading Scheme: Letter Grade
Presentation and exploration of the figure of the nonhuman animal in the work of several modern Italian authors and poets. Analysis addresses the literary dimension of the selected animal portraits as well as any philosophical and ethical questions raised by these literary animals. Taught in Italian.
Prerequisite: 3 credits of an ITA or ITW course at the 3000 level or above.

ITW 4600 Dante's Inferno 3 Credits
Grading Scheme: Letter Grade
Semester-long, in-depth examination of Dante Alighieris text, Inferno, with the support of a variety of visual materials and digital resources devoted to Dante and his world. Special attention paid to the political, historical and religious context in which Dante wrote. Taught in Italian.
Prerequisite: ITA 3420, ITA 3500, ITA 3564, ITW 3100 or ITW 3101, or instructor permission.

ITW 4911 Undergraduate Research in Literature in Italian 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Literature in Italian. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Literature in Italian.

Japanese | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

JPN 1130 Beginning Japanese 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading, and writing. JPN 1130 has a strict attendance policy: if registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor.
Prerequisite: placement test.

JPN 1131 Beginning Japanese 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar. JPN 1131 has a strict attendance policy: if registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor.
Prerequisite: JPN 1130 with minimum grade of C, or S, or the equivalent as proven by placement test.

JPN 2230 Intermediate Japanese 1 5 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar. JPN 2230 has a strict attendance policy: if registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor.
Prerequisite: JPN 1131 with minimum grade of C, or S, or the equivalent as proven by placement test.

JPN 2231 Intermediate Japanese 2 5 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study. JPN 2231 has a strict attendance policy: if registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor.
Prerequisite: JPN 2230 with minimum grade of C, or S, or the equivalent as proven by placement test.

JPN 3410 Advanced Japanese 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures. JPN 3410 has a strict attendance policy: if registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor. (H and N)
Prerequisite: JPN 2231 with minimum grade of C, or S, or the equivalent as proven by placement test.
Attributes: General Education - Humanities, General Education - International

JPN 3411 Advanced Japanese 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study. JPN 3411 has a strict attendance policy. If registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor. (H and N)
Prerequisite: JPN 3410 with minimum grade of C, or S, or the equivalent as proven by placement test.
Attributes: General Education - Humanities, General Education - International

JPN 3440 Business Japanese 3 Credits
Grading Scheme: Letter Grade
Provides grammatical structures and essential business vocabulary, develops conversation strategies and presentation skills, and raises awareness of the customs and cultural differences in Japanese business interactions.
Prerequisite: JPN 2231 with minimum grade of C or S, or the equivalent.

JPN 3730 Language in Japanese Society 3 Credits
Grading Scheme: Letter Grade
Analysis of variation in regional dialects: gender-based differences, pragmatics of interpersonal communication, language acquisition and discourse structure. (S and N)
Attributes: General Education - International, General Education - Social Science

JPN 4415 Japanese Translation: Theory and Practice 3 Credits
Grading Scheme: Letter Grade
Key concepts and approaches of translation studies applied to the translation of Japanese to English, and English to Japanese, in a variety of media, genre, and text types.
Prerequisite: JPN 3410 or equivalent with a minimum grade of C or instructor permission.

JPN 4850 Structure of Japanese 3 Credits
Grading Scheme: Letter Grade
Linguistic analysis of modern standard Japanese. Topics include phonology, morphology, syntax, semantics and writing. Readings and discussions in English. (S and N)
Prerequisite: JPN 1131 or instructor permission.
Attributes: General Education - International, General Education - Social Science

JPN 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course. Available only by special arrangement.

JPN 4911 Undergraduate Research in Language or Linguistics 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research in Language or Linguistics. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Language or Linguistics.

JPN 4930 Special Topics in Japanese Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in and in-depth study of special topics in Japanese studies.

JPN 4935 Senior Honors Thesis 3 Credits
Grading Scheme: Letter Grade
Select a Japanese faculty member to act as director for an independent research project that culminates in an honors thesis.
Prerequisite: Minimum 3.5 GPA and instructor permission.

JPN 4940 Internship 3 Credits
Grading Scheme: Letter Grade
Faculty (or delegated authority) supervised internship. Requires a written post-internship report.
Prerequisite: instructor and department permission.

JPN 4956 Overseas Studies 1 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

JPN 4957 Overseas Studies 2 1-15 Credits
Grading Scheme: Letter Grade
Revolving topics provide a mechanism for coursework taken at a foreign university as part of an approved study abroad program to be transferred to UF. Credits taken will be entered in the student's transcript and may or may not count toward graduation, at the discretion of major's advisors.
Prerequisite: undergraduate advisor permission.

JPT 3100 Tales of Kyoto 3 Credits
Grading Scheme: Letter Grade
An investigation of literary texts from the 8th through the 17th centuries presented within the framework of Western literary and feminist criticism. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 3120 Modern Japanese Fiction in Translation 3 Credits
Grading Scheme: Letter Grade
A critical examination of stories, autobiographies and secondary criticism from the 19th century to the present. Become familiar with the forms and topics of criticism through Japanese and Western sources. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

JPT 3121 Contemporary Japanese Literature: Postwar to Postmodern 3 Credits
Grading Scheme: Letter Grade
Companion to JPT 3120 that reflects the increasing clarity with which contemporary Japanese literature (1945 to present) is emerging as a separate field with its own set of issues, major texts and significance for the American student of Japan. Writers range from Dazai and Oe Kenzaburo to Murakami Haruki, and issues range from subjectivity to cybernetics.

JPT 3140 Modern Women Writers 3 Credits
Grading Scheme: Letter Grade
Examination of narratives written by women who published during the Taisho (1912-25), Showa (1925-89) and Heisei (1989 to present) periods. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 3150 Classical Japanese Poetry 3 Credits
Grading Scheme: Letter Grade
Historical survey of traditional Japanese poetry (waka) from the 8th to the 16th century. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 3300 Samurai War Tales 3 Credits
Grading Scheme: Letter Grade
Explores the historical and cultural stimuli that led to war, recorded later as war narratives. Supported by images of architecture, narrative picture scrolls, and extant military accoutrements. (H and N)
Corequisite: JPT 3500 recommended.
Attributes: General Education - Humanities, General Education - International

JPT 3330 Early Modern Japanese Literature 3 Credits
Grading Scheme: Letter Grade
Surveys Japanese literature of the Early Modern period (also called the Edo period), 1600-1868. Introduces and analyzes historically significant, foundational works of Early Modern Japanese literature and theater. Explores the history of the period and the development of print technologies and new genres, and introduces critical aesthetic and cultural concepts.
Prerequisite: JPT 3500 or JPT 3100 or JPT 3300 or JPN 2230

JPT 3391 Introduction to Japanese Film 4 Credits
Grading Scheme: Letter Grade
Introduces the formal and historical features of Japanese film that have given it a unique position in film history. Emphasizes formal and critical analysis as well as the intellectual stakes of studying non-western film.

JPT 3500 Japanese Culture 3 Credits
Grading Scheme: Letter Grade
Introduction to Japanese culture with emphasis on tracing the origin and development of important aspects of Japanese literature, art, religion and society. All readings in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

JPT 3702 Japanese Visual Culture 3 Credits
Grading Scheme: Letter Grade
Explores issues within Japanese visual culture, and uses visual-cultural products to explore Japanese political, cultural, social, and historical issues. Introduces and analyzes historically significant, foundational works of Japanese visual culture, unpacks genre and genre tropes in contemporary works, and analyzes several visual-cultural works that tackle significant social issues.
Prerequisite: JPT 3500 or JPT 3120 or ASH 3442

JPT 4130 The Tale of Genji 3 Credits
Grading Scheme: Letter Grade
Investigation of the 11th-century masterpiece and its pervasive influence on Japanese literature, past and present. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 4502 Japanese Folklore 3 Credits
Grading Scheme: Letter Grade
Study of native belief systems and the supernatural as reflected in the folk practice of ritual observance and in tales, myths, songs and proverbs. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 4510 Representations of Japan's Modern Empire 3 Credits
Grading Scheme: Letter Grade
Examines a variety of literary, historical, anthropological, and theoretical texts to explore racial and social issues related to Japan's imperial past. (H and N)
Corequisite: JPT 3500 recommended.
Attributes: General Education - Humanities, General Education - International

JPT 4911 Undergraduate Research in English Translation 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

JPT 4956 Overseas Studies 1 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

JPT 4957 Overseas Studies 2 1-15 Credits
Grading Scheme: Letter Grade
Revolving topics provide a mechanism for coursework taken at a foreign university as part of an approved study abroad program to be transferred to UF. Credits taken will be entered in the student's transcript and may or may not count toward graduation, at the discretion of major's advisors.
Prerequisite: undergraduate advisor permission.

JPW 3143 Classical Japanese 1 3 Credits
Grading Scheme: Letter Grade
Introduction to classical Japanese texts with emphasis on reading comprehension, grammar analysis and translation.
Prerequisite: JPN 2231 with minimum grade of C, or the equivalent.

JPW 3144 Classical Japanese 2 3 Credits
Grading Scheme: Letter Grade
Complex texts in classical Japanese with focus on comprehension, grammar, literature and culture.
Prerequisite: JPN 3143 with minimum grade of C, or the equivalent.

JPW 4130 Readings in Japanese Literature 3 Credits
Grading Scheme: Letter Grade
A fourth-year language course based on literary texts, incorporating advanced reading skills and the analysis of literature in the original. (H and N)
Prerequisite: JPN 3411 with minimum grade of C or S, or the equivalent as proven by placement test.
Attributes: General Education - Humanities, General Education - International

JPW 4131 Japanese Texts and Contexts 3 Credits
Grading Scheme: Letter Grade
Complements JPW 4130, Readings in Japanese Literature, and focuses on contemporary issues as encountered in a variety of Japanese media.
Prerequisite: JPN 3411 with minimum grade of C or S, or the equivalent as proven by placement test.

JPW 4911 Undergraduate Research in Target Language 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research in Target Language. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Target Language.

Jewish Studies

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Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AML 4685 Race and Ethnicity 3 Credits
Grading Scheme: Letter Grade
Variable topics examine issues, movements, forms or themes related to race and ethnicity in American literature. Topics may include Pacific Rim cultures in America, Chicano-Latino literature, the Black Arts Movement, constructing Native America, border-crossing and migration, post-war Jewish fiction, literature and the psychology of prejudice, comparative representations of racial and ethnic experience, representing whiteness, literatures of assimilation and multi-racial identities.

ANT 3241 Anthropology of Religion 3 Credits
Grading Scheme: Letter Grade
Cross-cultural survey of beliefs and practices dealing with the supernatural, magic, and religion. Conceptualization of the supernatural. Sacred specialists, their function, and social position. Theories of comparative religion in light of anthropological data. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

CPO 4000 Selected Studies in Comparative Politics 3 Credits
Grading Scheme: Letter Grade
Variable topics in comparative politics; precise course content will be announced in advance. (S and N)
Attributes: General Education - International, General Education - Social Science

ENG 4135 National Cinemas 4 Credits
Grading Scheme: Letter Grade
Variable topics study of the films of historically important national cinemas, such as American, French, German, Italian, Russian, Japanese.

EUH 3033 History of the Holocaust 3 Credits
Grading Scheme: Letter Grade
Origins of anti-Semitism in central Europe and the execution of the Holocaust by Nazi Germany. Examines the ideology of the Nazi leaders and the role of the SS, Army, Police, and ordinary citizens in perpetrating genocide. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 4000 Words of Writing Requirement

EUH 4464 Twentieth Century Germany 3 Credits
Grading Scheme: Letter Grade
Collapse of the monarchy and tribulations of the Weimar Republic. Examines Hitler's seizure of power, and of social, political, and ideological aspects of the Third Reich. The two Germanies to the fall of the Berlin Wall. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

HBR 1130 Beginning Modern Hebrew 1 5 Credits
Grading Scheme: Letter Grade
Beginning Hebrew covers four skills: listening, speaking, reading, and writing. For those with no prior exposure to the language.

HBR 1131 Beginning Modern Hebrew 2 5 Credits
Grading Scheme: Letter Grade
Continues beginning Hebrew, covering four skills: listening, speaking, reading, and writing.
Prerequisite: HBR 1130 with minimum grade of C or S, or the equivalent.

HBR 2220 Intermediate Modern Hebrew 1 4 Credits
Grading Scheme: Letter Grade
Intermediate Hebrew study covers four skills: listening, speaking, reading, and writing with new vocabulary and grammar.
Prerequisite: HBR 1131 with minimum grade of C or S, or the equivalent.

HBR 2221 Intermediate Modern Hebrew 2 4 Credits
Grading Scheme: Letter Grade
Continues intermediate Hebrew covering four skills: listening, speaking, reading, and writing.
Prerequisite: HBR 2220 with minimum grade of C or S, or the equivalent.

HBR 3410 Advanced Modern Hebrew 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills: listening, speaking, reading, and writing with attention to more complex structures. (H and N)
Prerequisite: HBR 2220 or HBR 2133 with minimum grade of C or S, or the equivalent.
Attributes: General Education - Humanities, General Education - International

HBR 3411 Advanced Modern Hebrew 2 3 Credits
Grading Scheme: Letter Grade
Continues advanced Hebrew study of the four skills: listening, speaking, reading, and writing with attention to more complex structures. (H and N)
Prerequisite: HBR 3410 with minimum grade of C or S, or the equivalent.
Attributes: General Education - Humanities, General Education - International

HBR 4905 Individual Work 1-5 Credits
Grading Scheme: Letter Grade
Individual work on an approved topic.
Prerequisite: refer to the department.

HBR 4930 Special Topics 3 Credits
Grading Scheme: Letter Grade
Proseminar of variable content providing an opportunity for in-depth study of special topics in Israeli literature, history, or culture.

HBT 3563 Women in Modern Hebrew Fiction 3 Credits
Grading Scheme: Letter Grade
Depictions of women in 20th century Hebrew fiction.

JST 2841 Women and Politics in Israel 3 Credits
Grading Scheme: Letter Grade
Analyzes womens roles both as political agents and as objects of political policies and movements. Examines Israeli female politicians and judges as political actors, and as both subjects and objects of state policy.

JST 2930 Special Topics in Jewish Studies 3 Credits
Grading Scheme: Letter Grade
Selected topics in the study of Jewish civilization.

JST 3821 Israeli Society 3 Credits
Grading Scheme: Letter Grade
Introduces major themes in dynamics of contemporary Israeli society. Juxtaposition of the different subjective points of view and motivations of the various actors involved.
Prerequisite: sophomore standing.

JST 3845 Israelis and Palestinians 3 Credits
Grading Scheme: Letter Grade
Discussion of Israeli-Palestinian interactions with a focus on the way collective identities are shaped by the conflict. Historically outlines development of the conflict from the beginning of the Zionist immigration to Palestine to present day and includes thematic analysis of its sociological dynamics.
Prerequisite: sophomore standing.

JST 3930 Special Topics in Jewish Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics in Jewish thought, history, literature and culture as represented in classified Jewish texts, Jewish law, Jewish ethics, folklore, Hasidism and Holocaust literature. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

JST 4905 Individual Work in Jewish Studies 1-3 Credits
Grading Scheme: Letter Grade
For advanced students who desire supplemental reading or research under guidance.

JST 4936 Colloquium in Jewish Studies 3 Credits
Grading Scheme: Letter Grade
Colloquium in Jewish studies designed to enhance knowledge of the development and significance of Jewish civilization.
Prerequisite: REL 2600 or the equivalent, junior or senior standing and instructor permission.

JST 4940 Internship in Jewish Studies 1-6 Credits
Grading Scheme: S/U
Preapproved internship with Jewish communal, educational or service institutions. Only 3 credits of JST 4940 can count toward a Jewish studies major or minor. (S-U)
Prerequisite: REL 2600 or the equivalent, junior/senior standing and instructor permission.

JST 4970 Senior Honors Thesis 1-3 Credits
Grading Scheme: Letter Grade
Directed research leading to submission of an honors thesis. Work completed under the supervision of a Jewish studies faculty member. Students can register for one semester (3 credits) or two (1 and 2 credits respectively). Required for magna or summa cum laude designation.

LIT 3173 Jewish Literature 3 Credits
Grading Scheme: Letter Grade
Variable topics in the Jewish literary experience, from the biblical narrative and classical tales to Yiddish and Hebrew literature, the modern European novel, and American Jewish fiction. (H and N)
Attributes: General Education - Humanities, General Education - International

MUH 3621 Jewish Art Music in Western Culture 3 Credits
Grading Scheme: Letter Grade
Cultural history of western art music inspired by Jewish subjects, Biblical and non-Biblical, composed by both Jewish and non-Jewish composers, and a survey of Jewish performing musicians from the Renaissance to the present. (H and N)
Prerequisite: written instructor permission.
Attributes: General Education - Humanities, General Education - International

POS 4291 Religion and Politics in the United States 3 Credits
Grading Scheme: Letter Grade
Investigates the role of religious institutions, values and communities in contemporary American political life. (WR)
Prerequisite: refer to the department.
Attributes: Satisfies 6000 Words of Writing Requirement

REL 2000 Introduction to Religion 3 Credits
Grading Scheme: Letter Grade
Introduces the historical underpinnings, geographical movement, development and current expression of a variety of religious traditions.

REL 2104 Environmental Ethics 3 Credits
Grading Scheme: Letter Grade
Explores competing secular and religious views regarding human impacts on and moral responsibilities toward nature and of the key thinkers and social movements in contention over them. (H) (WR)
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

REL 2210 Hebrew Scriptures 3 Credits
Grading Scheme: Letter Grade
History, literature, and beliefs of the Israelites from the Biblical text in the light of modern scholarship. (H)
Attributes: General Education - Humanities

REL 2388 Indigenous Religions of the Americas 3 Credits
Grading Scheme: Letter Grade
Religious values, attitudes, and norms of Native American peoples within the United States. (H) (WR)
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 4000 Words of Writing Requirement

REL 2600 Jews, Judaism, and Jewishness 3 Credits
Grading Scheme: Letter Grade
Multidisciplinary approach to the Jewish experience from its Biblical origins to modern times.

REL 3213 Hebrew Bible as Literature 3 Credits
Grading Scheme: Letter Grade
Intensive introduction to the literary study of the Hebrew Bible within the context of ancient Near Eastern literature and history.

REL 3234 Wisdom in the Hebrew Bible 3 Credits
Grading Scheme: Letter Grade
Examines ancient Israelite and early Jewish wisdom literature alongside similar literature from ancient Mesopotamia and Egypt.

REL 3291 Gender and the Hebrew Bible 3 Credits
Grading Scheme: Letter Grade
Critical examination of the literary representation and historical realities of gender and sexuality in ancient Israel through close readings of selected texts from the Hebrew Bible.

REL 3321 Early Judaism and Christianity 3 Credits
Grading Scheme: Letter Grade
Examines the Jewish-Christian encounter. The historical interaction between Judaism and Christianity including how each group symbolized the other, and the practical implications of the representations. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

REL 3938 Special Topics in Religion 3 Credits
Grading Scheme: Letter Grade
Special topics in religion. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

REL 4092 Ethics, Utopias and Dystopias 3 Credits
Grading Scheme: Letter Grade
Examines relationships between ethics and utopias in literature, religious communities, and millenarian movements. (H) (WR)
Prerequisite: instructor permission.
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

REL 4209 Dead Sea Scrolls and Early Jewish Literature 3 Credits
Grading Scheme: Letter Grade
Explores the varieties of literature that arose within Judaism from 250 BCE to 220 CE, including selections from the Dead Sea Scrolls, the OT Pseudepigrapha, Philo, and Josephus. (H)
Prerequisite: refer to the department.
Attributes: General Education - Humanities

REL 4221 The Pentateuch 3 Credits
Grading Scheme: Letter Grade
In-depth study of the Pentateuch (Genesis-Deuteronomy) in light of modern biblical scholarship.
Prerequisite: instructor permission.

REL 4490 Special Topics in Religious Thought 3 Credits
Grading Scheme: Letter Grade
Special topics in religious thought. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

REL 4611 Israelite Religion 3 Credits
Grading Scheme: Letter Grade
Comparative survey of literary, historical, ritual, and material aspects of ancient Israelite religion with evidence from Canaan, Mesopotamia, Greece, and Rome.
Prerequisite: instructor permission.

REL 4936 Special Topics in Religious Studies 3 Credits
Grading Scheme: Letter Grade
Advanced study for those with proper preparation of selected topics involving one or more religious traditions. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

Journalism

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More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Students not admitted to this college must have a 3.0 overall grade point average to enroll in journalism courses other than MMC 1000, MMC 2100, PUR 3000, and RTV 2100.

Courses

JOU 1001 Introduction to Journalism 1 Credit
Grading Scheme: Letter Grade
Overview of journalism in its many forms. A series of professional journalists introduce the news and information business. Offers preparation for a career in journalism.

JOU 2040 Writing Mechanics 1 Credit
Grading Scheme: Letter Grade
Prepares media writers for professional work, with a focus on mastering the basics of grammar, punctuation and spelling.

JOU 2100 Broadcast Writing Bootcamp 1 Credit
Grading Scheme: Letter Grade
This course explores the differences of writing for the ear vs. writing for the eye. Storytelling through methodologies traditionally associated with broadcast journalism?which can also be incorporated in digital and social storytelling?will be the focus. Examination of story structures and practical experience in writing scripts and sound-based stories.

JOU 3101 Reporting 3 Credits
Grading Scheme: Letter Grade
Instruction and practice reporting and writing basic news stories. Emphasizes style, clarity, accuracy and responsibility in handling news. (WR)
Prerequisite: 2JM classification;
Corequisite: MMC 2121.
Attributes: Satisfies 6000 Words of Writing Requirement

JOU 3109C Multimedia Writing 3 Credits
Grading Scheme: Letter Grade
Introduces news and public relations writing and the use of multimedia tools in gathering and disseminating information. Learn how to use multimedia tools for journalism work, interviewing techniques, AP style and the elements that make a story newsworthy. Consists of two hours of lecture and a three-hour lab each week.
Prerequisite: ENC 1102 and (MMC 1009 or MMC 2604 or PUR 3000), with minimum grades of C.

JOU 3110 Applied Fact Finding 3 Credits
Grading Scheme: Letter Grade
Instruction and practice in researching and solving complex news problems. Emphasizes enterprise, documentation and use of multiple sources, using standard reference works and public records.
Prerequisite: MMC 2121.

JOU 3121 Dataviz and Mapping 3 Credits
Grading Scheme: Letter Grade
Covers the foundational skills required for any professional communicator who seeks to tell a visual data story for audiences that rely on cellphones, as well as the basics of geospatial analysis. The emphasis is on data evaluation using code-free tools.
Prerequisite: MMC 2450.

JOU 3184 Beat Reporting 3 Credits
Grading Scheme: Letter Grade
Experience in reporting on a number of beats of significant public interest. Emphasizes responsible coverage of law enforcement, courts, schools, city and county government, health and the environment.
Prerequisite: JOU 3101 and JOU 3110 with minimum grades of C.

JOU 3212 Magazine Design 3 Credits
Grading Scheme: Letter Grade
Discover the principles and practice of design for various types of magazines. Learn how to use typography, photographs, illustrations and layouts to match graphic style to content for specific target audiences.
Prerequisite: JOU 3109C and JOU 3220C with minimum grades of C.

JOU 3213 Design 3 Credits
Grading Scheme: Letter Grade
Design of various forms of print media. Emphasizes basic principles of design. Use of typography and photographs together.
Prerequisite: JOU 3220C.

JOU 3220C Visual Journalism 3 Credits
Grading Scheme: Letter Grade
Learn how words and visuals work together to tell a story. Develop the skills to interpret and evaluate photographs, maps, charts, interactive graphics, websites and motion graphics. Learn and apply basic design principles. Gain proficiency in Photoshop, InDesign and other software.
Prerequisite: JOU 1001 with minimum grade of C; JM designation.

JOU 3305 Data Journalism 3 Credits
Grading Scheme: Letter Grade
Experience data journalism by using tools such as spreadsheets, databases, and mapping programs to acquire, clean, and analyze data, and by performing basic data visualization. Focuses on using tools to find meaningful patterns in data and to report those patterns accurately.
Prerequisite: JOU 3101 or instructor permission.

JOU 3346L Multimedia Reporting 3 Credits
Grading Scheme: Letter Grade
Learn to use digital tools in reporting for Internet news sites and other online media. Focuses on the tools to gather audio and visual material that helps to tell a journalistic story.
Prerequisite: JOU 3101 with minimum grade of C.

JOU 3363 Introduction to Web Apps for Communicators 3 Credits
Grading Scheme: Letter Grade
Introduces web markup, coding, and programming for journalism and communications students with no prior coding experience. Explore media-industry best practices for front-end web development, problem solving and algorithmic thinking, and recent examples of interactives and apps from media organizations.
Prerequisite: junior standing in college or instructor permission.

JOU 3601 Photographic Journalism 3 Credits
Grading Scheme: Letter Grade
Study and practice of photography as a major component of journalism. Emphasizes newspaper/magazine style photography and use of photographs; ethical, historical, legal and stylistic aspects. Digital cameras provided by the department.
Prerequisite: 2JM designation or instructor permission.

JOU 3920 Professional Practice 1 Credit
Grading Scheme: S/U
Explores both traditional job-seeking methods as well as digital job hunting. Covers best practices in how to prepare for an interview and how to reach out to and search for employers online. (S-U)
Prerequisite: junior standing in college.

JOU 4004 History of Journalism 3 Credits
Grading Scheme: Letter Grade
Origin, development and potentiality of print and broadcast media. Analyzes the evolution of standards, policies, methods and controls.

JOU 4008 Journalism Studies 3 Credits
Grading Scheme: Letter Grade
Gain media literacy and become an educated consumer, critical thinker and researcher of/about the media. Learn about research methods, media-business models and the connections between the media and economics.
Prerequisite: JOU 3101 with minimum grade of C.

JOU 4111 Advanced Reporting 3 Credits
Grading Scheme: Letter Grade
Produce quality news and feature stories for publication. Gain experience enhancing your news gathering and writing skills. Produce clips for your portfolio and as possible entries in the Hearst Journalism Awards Program.
Prerequisite: JOU 3101 with minimum grade of C.

JOU 4123 Investigative Reporting 3 Credits
Grading Scheme: Letter Grade
Learn to develop and execute an investigative reporting project employing various story platforms. Investigate a data-driven topic of public interest over the course of the semester; melding both primary research and in-depth interviewing.
Prerequisite: JOU 3101 and JOU 3110 with minimum grades of C.

JOU 4181 Public Affairs Reporting 3 Credits
Grading Scheme: Letter Grade
Instruction and practice in basic public affairs reporting; emphasizes responsible coverage of courts, schools and city and county government.
Prerequisite: JOU 3101 with minimum grade of C and JOU 3110.

JOU 4201 News Center Practicum 3 Credits
Grading Scheme: Letter Grade
Creating and editing local news content in our college's professional news center for broadcast and digital platforms serving north central Florida; emphasizes news judgement that serves the audience.
Prerequisite: JOU 3101.

JOU 4202 Advanced News Center Practicum 3 Credits
Grading Scheme: Letter Grade
Work in an advanced media setting on multiple projects, including writing, editing, and multimedia work. Emphasizes collaboration and decision-making in a real-world setting.
Prerequisite: JOU 4201 with minimum grade of C and instructor permission.

JOU 4214 Advanced Design 3 Credits
Grading Scheme: Letter Grade
Advanced design and production of various forms of print media. Emphasizes advanced principles, picture editing, typography, and use of other design elements.
Prerequisite: JOU 3101 and JOU 3213 with minimum grades of C and instructor permission.

JOU 4301 Literary Journalism 3 Credits
Grading Scheme: Letter Grade
Study and practice in literary journalism. Students may select a specialty and may work in writing or in writing and photography together.
Prerequisite: JOU 3101.

JOU 4308 Magazine and Feature Writing 3 Credits
Grading Scheme: Letter Grade
Preparation of features and articles for publication in newspapers and magazines coordinated with study of magazine editing problems. Supervised marketing of pieces produced.
Prerequisite: JOU 3101.

JOU 4311 Narrative Nonfiction Writing 3 Credits
Grading Scheme: Letter Grade
Advanced writing course in which students create article ideas, research and write magazine-length nonfiction articles and submit them for publication.
Prerequisite: JOU 4308 with minimum grade of B and instructor permission.

JOU 4313C Sports Reporting 3 Credits
Grading Scheme: Letter Grade
Instruction and practice in reporting sports with special emphasis on game coverage and interviewing techniques. Includes features, sidebars, advances and press conference coverage. Opportunities for publication of stories.
Prerequisite: JOU 3101.

JOU 4314 Environmental Journalism 3 Credits
Grading Scheme: Letter Grade
This introduction to Environmental Journalism will help you find the most accurate, credible and timeliest information on environmental science and related issues ? discerning uncompromised expert sources, using human narratives and descriptive storytelling to relate real world impact, and tapping the databases, records and other tools used by environmental reporters.
Prerequisite: JOU 3101 or instructor permission.

JOU 4342 Reporting and Writing for Online Media 3 Credits
Grading Scheme: Letter Grade
Explore ways to adapt reporting practices to online media. Develop original journalistic stories in chunks and link them in usable structures that readers can navigate according to their own choices. Students focus on writing and on editing their own work as a necessary part of the process of writing. Emphasizes information design, not graphic design. Students produce both individual and group projects.
Prerequisite: MMC 3260, and JOU 3101 or RTV 3303.

JOU 4364 Advanced Web Apps for Communicators 3 Credits
Grading Scheme: Letter Grade
Add server-side (back-end) web skills to already developed client-side (front-end) web skills to develop web apps that include a server-side component to support presentations of stories/data for media. Also covers web scraping to enable journalists to gather open data.
Prerequisite: JOU 3363.

JOU 4447C Applied Magazines 3 Credits
Grading Scheme: Letter Grade
Provides experience in editing and publishing a magazine.
Prerequisite: JOU 4308 with minimum grade of C.

JOU 4510 Magazine Management and Publication 3 Credits
Grading Scheme: Letter Grade
Provides knowledge and training in magazine writing, editing, design, production and administration for magazine sequence majors. Stresses organization, concept, audience, budget, printing, advertising, circulation and promotion of magazines.
Prerequisite: JOU 4201, JOU 3213 and JOU 4308.

JOU 4603 Specialized Journalistic Photography 3 Credits
Grading Scheme: Letter Grade
Journalistic still photography emphasizing technical proficiency. Specialized techniques and equipment stressed. Emphasizes color portraiture, studio products, lighting, flash and related skills. Assignments prepared using digital scanning. Students furnish some 35mm equipment and most supplies.
Prerequisite: JOU 3601 with minimum grade of C or instructor permission.

JOU 4604 Advanced Photographic Journalism 1 3 Credits
Grading Scheme: Letter Grade
Primary concern is portfolio-quality single story-telling pictures and multiple picture packages, including picture stories. Introduces computer page layout. Deadline pressure emphasized; overview of picture editor duties; trends; social implications; portfolio preparation. Assignments involve computer programs. Students furnish supplies, most 35mm camera equipment and flash.
Prerequisite: JOU 3601.

JOU 4605 Advanced Photographic Journalism 2 3 Credits
Grading Scheme: Letter Grade
Continues JOU 4604 with emphasis on the picture story, layouts and the study of historical figures in photojournalism. Pays particular attention to magazines, color and new developments in the profession. Duties of the picture editor covered in-depth. Prior knowledge of computer scanning and layout programs expected. Portfolio preparation concluded. Terminal course in the sequence. Students furnish supplies and most equipment.
Prerequisite: JOU 4603 and JOU 4604.

JOU 4700 Problems and Ethics of Journalism in Society 3 Credits
Grading Scheme: Letter Grade
Reading, analysis and planning in current and projected issues in journalism, both in their professional and societal aspects.
Prerequisite: 4JM designation.

JOU 4905 Individual Problems in Journalism 1-3 Credits
Grading Scheme: Letter Grade
Students and the instructor concerned choose a problem or project which gives the student actual experience in his or her major field.
Prerequisite: at least 10 credits of journalism in the upper division and department permission.

JOU 4910 Journalism Undergrad Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application, depending on the topic. (S/U)
Prerequisite: JOU 3109C with grade of C or better.

JOU 4930 Special Study in Journalism 1-3 Credits
Grading Scheme: Letter Grade
Variable content provides opportunity for study in academic areas of journalism, such as the literature of journalism and other fields within the province of the college.
Prerequisite: instructor permission.

JOU 4940 Journalism Internship 1-3 Credits
Grading Scheme: S/U
Student and instructor select an appropriate work area related to the field of journalism for on-the-job training. Student works a minimum of 100 hours on the job for every credit to be received. Progress reports and summary required. (S-U)
Prerequisite: minimum 3.0 GPA and completion of specialized courses in journalism appropriate to the internship. Must have department approval to receive credit.

JOU 4950 Applied Journalism 3 Credits
Grading Scheme: Letter Grade
By assuming the role of a professional journalist, prepare for professional-caliber reporting, writing, and production of multimedia storytelling suitable for publication in various traditional/digital outlets. Classes are conducted through a series of seminars and heavily coached group projects.
Prerequisite: 4JM designation, JOU 3346 and minimum grades of C in JOU 4308, JOU 3213, JOU 3305, JOU 4201, and JOU 4604, or department permission.

MMC 1009 Introduction to Media and Communications 1 Credit
Grading Scheme: Letter Grade
Introduces the tools, resources and academic and extra-curricular activities offered by the College of Journalism and Communications. Includes lessons on the history and organization of the college and academic and career preparation.
Prerequisite: 1JM or exploratory major, 2JM, or 3JM classification, or instructor approval.

MMC 2121 Writing Fundamentals for Communicators 3 Credits
Grading Scheme: Letter Grade
One-third of the course is to ensure students have sufficient skill in grammar and punctuation to write with clarity. In two-thirds of the course, students put principles of good writing into practice with short writing assignments that have real-world applications.

MMC 2450 Data Literacy for Communicators 1 Credit
Grading Scheme: Letter Grade
Numeracy which enables data literacy; to use, evaluate, and communicate numbers in situations commonly faced in advertising, journalism, public relations, and telecommunications.

MMC 2604 Mass Media and You 3 Credits
Grading Scheme: Letter Grade
Examines roles and effects of contemporary mass media on modern societies. Considers rights, responsibilities and ethics of media, explores relationships between governments, audiences and media companies and reviews economic, political and social determinants of media content.

MMC 3030 Personal Branding for Communicators 1 Credit
Grading Scheme: Letter Grade
Professional development course that stresses how to communicate and connect as professionals. Emphasizes mastery of writing, speaking, presentation and employment-seeking skills, working with media, handling media interviews and using social media to establish a professional identity.
Prerequisite: 3JM designation.

MMC 3203 Ethics and Problems in Mass Communications 3 Credits
Grading Scheme: Letter Grade
A cross-disciplinary introduction to ethics-relevant situations faced by media professionals. Topics include professional standards of conduct, audience representation and engagement and issues associated with the production, presentation and delivery of messages that reflect the best interests of audiences, clients and stakeholders.
Prerequisite: 2JM designation and ADV 3008, JOU 1001, PUR 3000 or RTV 3001 with minimum grade of C.

MMC 3254 Media Entrepreneurship 1 Credit
Grading Scheme: Letter Grade
Introduces media entrepreneurship with a focus on how digital technologies are transforming industries. Students work in teams to develop new digital media businesses. Develop and pitch ideas, explore market analysis, develop business and financial plans and study social media strategies.
Prerequisite: sophomore standing.

MMC 3420 Consumer and Audience Analytics 3 Credits
Grading Scheme: Letter Grade
Provides practical analytical skill-sets, benefiting those who plan careers in analytics/research, social media, media business, advertising/marketing and public relations.
Prerequisite: Junior standing.

MMC 3702 Rock 'N Roll and American Society Part 1 3 Credits
Grading Scheme: Letter Grade
Studies the role of popular music in American culture. Not a music course but a look at the effects of recorded sound on popular culture. Part 1 emphasizes rock 'n roll and its impact from 1954-1970. Part 2 covers 1970 to the present.
Prerequisite: Sophomore standing.

MMC 3703 Sports Media and Society 3 Credits
Grading Scheme: Letter Grade
The relationships between sports, athletes, media and audience. Includes the evolution of sports media from the early sportswriters to the day when athletes control their own messages via Twitter. Covers the various mediums (newspapers, magazines, books, radio, TV, online, forums, blogs and social media) in terms of their history, function and impact.
Prerequisite: sophomore standing.

MMC 3742 Rock 'N' Roll and American Society Part 2 3 Credits
Grading Scheme: Letter Grade
Studies the role of popular music in American culture. It is not a music course but a look at the effects of recorded sound on popular culture. Part 1 emphasizes rock 'n' roll and its impact from 1954-1970. Part 2 covers 1970 to 1990.
Prerequisite: Sophomore standing or higher.

MMC 4200 Law of Mass Communication 3 Credits
Grading Scheme: Letter Grade
Understanding the law, which guarantees and protects the privileges and defines the responsibilities of the mass media. Includes problems of constitutional law, libel, privacy and governmental regulations.
Prerequisite: junior standing.

MMC 4341L Advanced Online Media Production 3 Credits
Grading Scheme: Letter Grade
Advanced skills in appropriate technologies for producing online journalism. Sophisticated design of navigation interfaces for online information; screen/page design and site structure planning; web video, audio, photos and animation; web forms and databases. Emphasizes professional techniques and standards. Several software packages used; students must be able to take initiative in learning. Students complete a final portfolio project.
Prerequisite: JOU 3601 and MMC 3260.

PGY 3610 Survey of Photojournalism 2 Credits
Grading Scheme: Letter Grade
Not open to photojournalism majors. Introduces still photography; selection and use of photographs in the print media; legal, historical, stylistic, ethical and technical aspects. Picture-taking minimal compared to JOU 3601. Shared cameras provided.
Prerequisite: 3JM designation.

RTV 3106 Writing and Reporting for Interactive Media 3 Credits
Grading Scheme: Letter Grade
Planning and executing news and online news projects. Course lecture, readings and discussion focus on locating, evaluating and tracking Internet sources, construction of multilinear news content and the integration of Internet technology into the news process.
Prerequisite: RTV 2100 or MMC 2100 and RTV 3303.

RTV 3303 Audio News and Reporting 3 Credits
Grading Scheme: Letter Grade
Basic writing, reporting and production of radio news stories and newscasts. Students must purchase approved recorder for class.
Prerequisite: JOU 3101 with a minimum grade of C.

RTV 3304 Advanced Audio Storytelling 3 Credits
Grading Scheme: Letter Grade
Advanced reporting, writing, and production of radio news stories and newscasts against deadlines. Requires radio news laboratory.
Prerequisite: RTV 3303 with minimum grade of C and JOU 3101.

RTV 3305 In-Depth Broadcast Reporting 3 Credits
Grading Scheme: Letter Grade
Principles of investigative reporting as applied to television and radio news.
Prerequisite: RTV 3303 or RTV 4301 with a minimum grade of C.

RTV 3601 Broadcast Performance 3 Credits
Grading Scheme: Letter Grade
Development of basic radio and television announcing skills.

RTV 3632 Broadcast News Producing 3 Credits
Grading Scheme: Letter Grade
Producing news content for television. Includes instruction in ap-enps software, field producing techniques and production of long-form programs, with considerable emphasis on the role of the producer as gatekeeper and newsroom manager.
Prerequisite: JOU 3101 with a minimum grade of C and department permission.

RTV 4301 TV News Reporting 3 Credits
Grading Scheme: Letter Grade
Basic writing, reporting and production of television news stories and newscasts. Students must purchase two approved video cassettes for class.
Prerequisite: JOU 3101 with a minimum grade of C and department permission.

RTV 4594 Advanced Reporting for Interactive Media 3 Credits
Grading Scheme: Letter Grade
Teaches the advanced skills necessary to produce online journalism content utilizing video, audio, photo essays, and interactive graphics. Receive practical experience working in the college's converged newsroom.
Prerequisite: RTV 3106 with minimum grade of C and JOU 3101.

RTV 4681 Advanced TV News Reporting 3 Credits
Grading Scheme: Letter Grade
News reporting, videography, writing and editing for television newscasts on deadline. One day-long lab in television newsroom required and purchase of additional approved video cassettes may also be required.
Prerequisite: RTV 4301 with minimum grade of C and JOU 3101.

RTV 4684 Advanced Broadcast News Producing 3 Credits
Grading Scheme: Letter Grade
Supervised assignment as line or field producer for radio, TV, or online news program or series. Requires eight hours per week in newsroom.
Prerequisite: RTV 3632, RTV 3401 with minimum grades of C and JOU 3101.

VIC 3001 Sight, Sound and Motion 4 Credits
Grading Scheme: Letter Grade
Visual literacy is a prerequisite for success in most areas of mass communication. Teaches fundamentals of design across print, web and multimedia platforms. Also emphasizes how visual forms convey messages to readers.
Prerequisite: sophomore standing.

Korean | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

KOR 1130 Beginning Korean 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering speaking, listening, reading, writing, and cultural interaction.
Prerequisite: placement test.

KOR 1131 Beginning Korean 2 5 Credits
Grading Scheme: Letter Grade
Continued study of speaking, listening, reading, writing and cultural interaction.
Prerequisite: KOR 1130 with minimum grade of C, or S, or the equivalent.

KOR 2230 Intermediate Korean 1 5 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: KOR 1131 with minimum grade of C or S, or the equivalent.

KOR 2231 Intermediate Korean 2 5 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: KOR 2230 with minimum grade of C or S, or the equivalent.

Landscape Architecture

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

LAA 1920 Introduction to Landscape Architecture 3 Credits
Grading Scheme: Letter Grade
Introduces landscape architecture, a profession defined as an art and science of planning or designing on the land-arranging and creating spaces and objects in a landscape for human use. Open to all students.

LAA 2330 Site Analysis 3 Credits
Grading Scheme: Letter Grade
Inventory, analysis and evaluation of site development procedures; emphasis on landscape ecology.

LAA 2360C Principles of Landscape Architecture 5 Credits
Grading Scheme: Letter Grade
Builds upon the fundamental principles of design covered in previous studios to explore a range of landscape architectural issues. Site design problems incorporating a mixture of cultural, environmental, and historical topics provide a framework for students to develop their analytical skills, communication techniques, and general understanding of design.
Prerequisite: ARC 1301 and majors only;
Corequisite: LAA 2379C.

LAA 2376C Design Communications 1 4 Credits
Grading Scheme: Letter Grade
Introduces visualization techniques via a project based studio in landscape architectural design and planning. Covers traditional drawing conventions, alternative methods of exploratory visualization and the techniques and processes used to produce these methods of communication.

LAA 2379C Design Communications 2 4 Credits
Grading Scheme: Letter Grade
Advances the design communication strategies introduced in Design Communications I by further developing skills in digital visualization and communication techniques. Additionally, expanding their skill set to include advanced applications in to include landform and three dimensional space and object modeling and to be introduced to digital fabrication and three dimensional output.
Prerequisite: LAA 2376C.

LAA 2532 Landscape Management 3 Credits
Grading Scheme: Letter Grade
Explores the relationship between planning and design decision-making and landscape management practices which are, in turn, based on the fundamental principles of ecology and landscape ecology.

LAA 2710 History of Landscape Architecture 3 Credits
Grading Scheme: Letter Grade
Landscape architecture is the art and science of arranging functions and spaces within the ecology of the land and the culture of the humans who inhabit it. Surveys the history of humans as it is expressed in such diverse areas as urban form, community planning, gardens, parks and recreational areas, agricultural patterns and land management. Open to all students. (H and N)
Attributes: General Education - Humanities, General Education - International

LAA 3350C Site Design and Planning Studio 5 Credits
Grading Scheme: Letter Grade
Application of basic site design principles on small-scale projects.
Prerequisite: LAA 3352C.

LAA 3352C Planting Design Studio 5 Credits
Grading Scheme: Letter Grade
The planting design studio introduces the planting design process, its relationship to the site planning, existing site conditions, project locale and client needs.
Prerequisite: LAA 2360C;
Corequisite: BOT 3153.

LAA 3420 Landscape Construction 1 5 Credits
Grading Scheme: Letter Grade
Characteristics of land form and the effects of grading on drainage, soils and location of landscape architectural elements; pavings, low retaining walls; quantification skills.
Prerequisite: LAA 2360C.

LAA 3421 Landscape Construction 2 5 Credits
Grading Scheme: Letter Grade
Design and construction drawings for public and private landscape structures, landscape utilities, and irrigation system layouts; specifications, takeoffs and estimating.
Prerequisite: LAA 3420.

LAA 4210 Landscape Architecture Professional Practice 4 Credits
Grading Scheme: Letter Grade
Preparation for professional practice and the understanding of the business of landscape architecture in private and public arenas.

LAA 4230 Theories of Landscape Architecture 3 Credits
Grading Scheme: Letter Grade
Explores the theories pertinent to the practice and study of landscape architecture. Addresses primarily aesthetic and cultural principles and values with related ecological aspects.

LAA 4260 Site Designed Green Roofs 3 Credits
Grading Scheme: Letter Grade

LAA 4353C Urban Design Studio 6 Credits
Grading Scheme: Letter Grade
Design studio emphasizes the physical, social-behavioral, and civil factors involved with the design and planning of towns, cities and the public space found therein. Projects range in scale and complexity including the design of a new urban environment and/or existing urban development.
Prerequisite: LAA 3352C.

LAA 4356 Envir Plan Des Studio 6 Credits
Grading Scheme: Letter Grade

LAA 4357 Senior Independent Project Seminar 2 Credits
Grading Scheme: S/U
Focuses on proposal writing and information gathering to support the senior independent project. (S-U)
Prerequisite: LAA 4353C and LAA 3421.

LAA 4358 Senior Independent Project 8 Credits
Grading Scheme: Letter Grade
This final semester-long project expands personal interests and talents, hones decision-making abilities, and sharpens professional skills through well-rounded, comprehensive completion of individual projects. Project must be approved by the faculty.
Prerequisite: completion of all previous design studios and construction courses.

LAA 4362 Design Communications for Landscape Architects 4 Credits
Grading Scheme: Letter Grade
Immersive experience in visualization techniques in landscape architectural design and planning. Covers traditional drawing conventions (plan, section/elevation and perspective) and builds skills in digital communication and visualization methods.
Prerequisite: Advanced standing in the program and/or instructor permission.

LAA 4394 Advanced Design Communication 3 Credits
Grading Scheme: Letter Grade
Develop skills in digital visualization and communication techniques, exploring digital media as a landscape architecture tool for design and fabrication; produce high quality perspective drawings and design diagrams using Rhino and Adobe CC, and digital fabrication techniques using UF's Fab Lab.
Prerequisite: LAA 2376C and LAA 2379C.

LAA 4450 Landscape Architecture Design Implementation 5 Credits
Grading Scheme: Letter Grade
Integration of the principles of construction with design. A combination of lecture and studio complements instruction in the design studio class. Students complete a full set of construction documents to support their design concept prepared in the beginning of the course.
Prerequisite: LAA 3420 and LAA 3421.

LAA 4905 Special Studies in Landscape Architecture 1-6 Credits
Grading Scheme: Letter Grade
Studio investigations of topics in landscape architecture adjusted to individual needs of advanced undergraduate and graduate students.
Prerequisite: instructor permission.

LAA 4935 Gardens of the World 3 Credits
Grading Scheme: Letter Grade
An assessment and discussion of works of landscape architecture with emphasis on user evaluation, design trends and research directions. Open to all majors. (H and N)
Attributes: General Education - Humanities, General Education - International

LAA 4940 Landscape Architecture Internship 3 Credits
Grading Scheme: S/U
Internship in a private/public sector office under the direction of a registered landscape architect; required for graduation. (S-U)

LAA 4941C Extended Internship with Landscape Architect 9 Credits
Grading Scheme: S/U
Internship in a private/public sector office under the direction of a registered landscape architect. (S-U)
Corequisite: LAA 4940.

Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

General

LIT 2000 Introduction to Literature 3 Credits
Grading Scheme: Letter Grade
Examines the important role literature has played in individuals' lives and in society, presenting a range of literary styles and genres, from different countries and historical periods. Special attention paid to development of critical skills of analysis and interpretation. (H)
Prerequisite: ENC 1101
Attributes: General Education - Humanities

African and Asian

HUM 2420 African Humanities 3 Credits
Grading Scheme: Letter Grade
A general education course similar in philosophy and purpose to the basic sequence. Content selected from the philosophies, literature, arts and music of various African countries and regions. (H and N)
Attributes: General Education - Humanities, General Education - International

HUM 2424 African Cultures and Literatures 3 Credits
Grading Scheme: Letter Grade
A culturally based study of folktales, proverbs, drama, poetry and novels; and how these forms are used to portray African arts and ideas. (H and N)
Attributes: General Education - Humanities, General Education - International

SSA 3730 Language in African Society 3 Credits
Grading Scheme: Letter Grade
The role of language in the development of African societies. Language and nation building. (S and N)
Attributes: General Education - International, General Education - Social Science

SSA 4905 Individual Work 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course.
Prerequisite: department permission.

SSA 4930 Special Topics in African Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in African studies.

SST 2501 African Elements in the Americas 3 Credits
Grading Scheme: Letter Grade
Traces African influence in the Americas from the arrival of Africans on the continent until the present.

SST 4502 African Oral Literature 3 Credits
Grading Scheme: Letter Grade
An overview of African oral literature, introduces methodological and theoretical problems, and examines the sociopolitical and cultural relevance of the literature.
Prerequisite: instructor permission.

Akan

AKA 1130 Beginning Akan 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

AKA 1131 Beginning Akan 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: AKA 1130 with minimum grade of C or the equivalent.

AKA 2200 Intermediate Akan 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: AKA 1131 with minimum grade of C, or the equivalent.

AKA 2201 Intermediate Akan 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study.
Prerequisite: AKA 2200 with minimum grade of C, or the equivalent.

AKA 3410 Advanced Akan 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: AKA 2201 with minimum grade of C, or the equivalent.

AKA 3411 Advanced Akan 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study.
Prerequisite: AKA 3410 with minimum grade of C, or the equivalent.

Amharic

AHM 1130 Beginning Amharic 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading, and writing.

AHM 1131 Beginning Amharic 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: AHM 1130 with minimum grade of C, or the equivalent.

AHM 2200 Intermed Amharic 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: AHM 1131 with minimum grade of C, or the equivalent.

AHM 2201 Intermediate Amharic 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study.
Prerequisite: AHM 2200 with minimum grade of C, or the equivalent.

AHM 3410 Advanced Amharic 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: AHM 2201 with minimum grade of C, or the equivalent.

AHM 3411 Advanced Amharic 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study.
Prerequisite: AHM 3410 with minimum grade of C or the equivalent.

Arabic

ABT 3130 Arabic Literary Heritage 1 3 Credits
Grading Scheme: Letter Grade
A survey of classical Arabic literature in translation. Covers pre-Islamic poetry and early Islamic poetry, Omayyad, Abbasid and Andalusian literatures. All readings in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

ABT 3500 Arabic Culture 3 Credits
Grading Scheme: Letter Grade
Introduction to Arabic culture with special reference to art, literature, religion and society. Emphasis on Arab contributions to philosophy, medicine, mathematics and architecture. All readings in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

ABT 4131 The Qur'an as Literature 3 Credits
Grading Scheme: Letter Grade
Approaches the Qur'an from a literary standpoint by examining its history, structure, style, major themes, and impact on Arabic literature, Islamic thought, and Muslim culture.
Prerequisite: ARA 1131 or ABT 3500 or REL 2000 or REL 2362 or REL 4361 or senior standing.

ARA 1130 Beginning Arabic 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading, and writing.

ARA 1131 Beginning Arabic 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: ARA 1130 with minimum grade of C or the equivalent.

ARA 2220 Intermediate Arabic 1 4 Credits
Grading Scheme: Letter Grade
Continuation of the study of standard Arabic language. Develops reading, writing, listening and speaking skills and helps with comprehension of written and audio texts. Students can use their knowledge of the Arabic language to clearly express their personal views in a meaningful and well-structured language.
Prerequisite: ARA 1131 with minimum grade of C or the equivalent.

ARA 2221 Intermediate Arabic 2 4 Credits
Grading Scheme: Letter Grade
Continues the study of Arabic language at the intermediate level. Emphasizes developing reading comprehension, writing, listening and speaking, and vocabulary and grammar.
Prerequisite: ARA 1131 with minimum grade of C or the equivalent.

ARA 2240 Spoken Arabic 3 Credits
Grading Scheme: Letter Grade
Develops listening and conversational skills at an intermediate level of proficiency. Focuses on a middle variety of Arabic known as Educated Spoken Arabic that enables successful communication with educated Arab speakers from virtually any country in the Arab world.
Prerequisite: ARA 1131.

ARA 3241 Spoken Arabic 3 Credits
Grading Scheme: Letter Grade
Develops listening and conversational skills at an intermediate level of proficiency. Focuses on a middle variety of Arabic known as Educated Spoken Arabic that enables successful communication with educated Arab speakers from virtually any country in the Arab world.
Prerequisite: ARA 2221.

ARA 3410 Advanced Arabic 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: ARA 2221 with minimum grade of C or the equivalent.

ARA 3411 Advanced Arabic 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study.
Prerequisite: ARA 3410 with minimum grade of C or the equivalent.

ARA 3510 The Arab Woman 3 Credits
Grading Scheme: Letter Grade
Examines the role and status of Arab women in their respective societies; specifically examines the internal dynamic of Arab culture that influences the role of the Arab woman. (H and N OR S and N) (WR)
Attributes: General Education - Humanities, General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

ARA 4400 Fourth Year Arabic 1 3 Credits
Grading Scheme: Letter Grade
Development to an advanced level of speaking, hearing, reading and writing of spoken and mass communication and literary Arabic. (H and N)
Prerequisite: ARA 3411 or the equivalent.
Attributes: General Education - Humanities, General Education - International

ARA 4401 Fourth Year Arabic 2 3 Credits
Grading Scheme: Letter Grade
Continuation of ARA 4400. Development of a more advanced level of speaking, hearing, reading and writing of spoken and mass communication and literary Arabic. (H and N)
Prerequisite: ARA 4400 or the equivalent.
Attributes: General Education - Humanities, General Education - International

ARA 4420 Arabic through the Texts 3 Credits
Grading Scheme: Letter Grade
For advanced students of Arabic. Teaches the more complex grammar, idiomatic expressions and sophisticated stylistic forms of the language. Required for the Arabic minor.
Prerequisite: ARA 3411 or the equivalent.

ARA 4822 Arabic Sociolinguistics 3 Credits
Grading Scheme: Letter Grade
Focus on the relationship between language and society in the Arab world. An examination of the different varieties of Arabic and the relation between linguistic variation and other social variables, such as ethnicity, religion, urbanization, social class, gender, power and ideology.
Prerequisite: ARA 1131 or LIN 3010.

ARA 4850 Structure of Standard Arabic 3 Credits
Grading Scheme: Letter Grade
Describes and analyzes the sound system, word structure, and sentence structure of Arabic.
Prerequisite: ARA 1131 or LIN 3010.

ARA 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course.
Prerequisite: instructor permission.

ARA 4930 Special Topics 3 Credits
Grading Scheme: Letter Grade
One of the core courses in the Middle Eastern languages and cultures major offered through interdisciplinary studies. Also useful for students in linguistics, religion, Arabic, Hebrew and Jewish studies.
Prerequisite: one year of Hebrew or equivalent, one year of Arabic or equivalent, LIN 3010 or equivalent, or instructor permission.

ARA 4956 Overseas Studies 1 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

Chinese

CHI 1130 Beginning Chinese 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing. Materials are designed for learners with no prior exposure to the language. Those with native background or education for four years or more in a Chinese speaking country must take a placement test before enrolling in any Chinese language class.

CHI 1131 Beginning Chinese 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: CHI 1130 with minimum grade of C, or S, or the equivalent.

CHI 2230 Intermediate Chinese 1 5 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: CHI 1131 with minimum grade of C, or S, or the equivalent.

CHI 2231 Intermediate Chinese 2 5 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: CHI 2230 with minimum grade of C, or S, or the equivalent.

CHI 2340 Chinese for Heritage Learners 1 4 Credits
Grading Scheme: Letter Grade
For those with significant bilingual speaking and listening backgrounds. Emphasis is on recognition of the characters and writing, and pronunciation and speaking.

CHI 2341 Chinese for Heritage Learners 2 4 Credits
Grading Scheme: Letter Grade
To consolidate the foundation built in Chinese for Heritage Learners 1, to expand vocabulary and to introduce more complex grammatical structures. Emphasis is on reading and writing. Those who successfully complete CHI 2341 are eligible for CHI 3410.

CHI 3403 Chinese Calligraphy 3 Credits
Grading Scheme: Letter Grade
Introductory study of the origin, composition, development, variations and aesthetic styles of Chinese characters with laboratory sessions for appreciating and practicing calligraphic skills. (H and N)
Prerequisite: (CHI 2231 or JPN 2231 or CHI 3410 or JPN 3410 or CHI 3411 or JPN 3411 or CHW 4120 or CHW 4130 or CHW 4140 or JPW 4130 or JPW 4131) or instructor permission.
Attributes: General Education - Humanities, General Education - International

CHI 3410 Advanced Chinese 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures. (S and N)
Prerequisite: CHI 2231 with minimum grade of C, or S, or the equivalent.
Attributes: General Education - International, General Education - Social Science

CHI 3411 Advanced Chinese 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study of the four skills with attention to more complex structures. (S and N)
Prerequisite: CHI 3410 with minimum grade of C, or S, or the equivalent.
Attributes: General Education - International, General Education - Social Science

CHI 3440 Business Chinese 3 Credits
Grading Scheme: Letter Grade
Development of language skills and protocol issues used in Chinese business environments. Acquire vocabulary, phrases, and sentence patterns essential for business transactions and develop oral presentations, business cards, and resumes.
Prerequisite: completion of second-year Chinese required, or by permission.

CHI 4050 Fourth Year Chinese 1 3 Credits
Grading Scheme: Letter Grade
Introduces and analyzes the documentary prose style used in Chinese newspapers and media. By studying a variety of short texts students develop skill in listening, speaking, reading and writing about issues commonly encountered in Chinese newspaper editorials and in television news programs, debate roundtables, or TV documentaries.
Prerequisite: CHI 3411 or equivalent with a minimum grade of C.

CHI 4051 Fourth Year Chinese 2 3 Credits
Grading Scheme: Letter Grade
Solidifies and improves students' knowledge of advanced Chinese through literature as a continuation of CHI 4050. Emphasizes formulating strategies to learn the difference between written language and spoken language and approaches meaningful writing with an eye toward careful examination of authentic writing samples.
Prerequisite: CHI 4050

CHI 4850 Structure of Chinese 3 Credits
Grading Scheme: Letter Grade
Introduction to phonological, grammatical and discourse structures of Mandarin Chinese, with an emphasis on its contrastive aspects with the English language. (S and N)
Prerequisite: CHI 1131 with minimum grade of C or LIN 3010, or instructor permission.
Attributes: General Education - International, General Education - Social Science

CHI 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course. Includes all individual study courses offered by the Chinese section.

CHI 4911 Undergraduate Research in Language or Linguistics 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Language or Linguistics. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Language or Linguistics.

CHI 4930 Special Topics in Chinese Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in Chinese studies.

CHI 4935 Senior Thesis 3 Credits
Grading Scheme: Letter Grade
Select a Chinese faculty member to act as director for an independent research project that culminates in the preparation of an honors thesis.
Prerequisite: minimum 3.5 GPA and instructor permission.

CHI 4940 Internship 1-6 Credits
Grading Scheme: Letter Grade
Gain practical experience that enhances classroom learning.

CHI 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade

CHT 3110 Chinese Literary Heritage 3 Credits
Grading Scheme: Letter Grade
Introduces pre-modern Chinese literature in translation. Topics chosen from classical poetry, short stories, novels and drama. Emphasis is on the interplay between orthodox values and the folk tradition. All readings in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

CHT 3123 Pre-Modern Chinese Fiction in Translation 3 Credits
Grading Scheme: Letter Grade
Pre-modern Chinese narrative from its philosophical and historical origins to the fiction at the turn of the 20th century. Emphasizes the 16th and 17th centuries when Chinese vernacular fiction flourished. (H and N)
Attributes: General Education - Humanities, General Education - International

CHT 3124 Modern Chinese Fiction in Translation 3 Credits
Grading Scheme: Letter Grade
A survey of modern Chinese fiction in translation. Samples are from the early 20th century through the contemporary era and include writers of the early Republic, the P.R.C. and Taiwan. Focus is on fiction as a vehicle for social change. All readings in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

CHT 3391 Chinese Film and Media 4 Credits
Grading Scheme: Letter Grade
Examination of Chinese cinema and other forms of media such as television, music and print culture in a broad sociopolitical and historical context. An interdisciplinary approach with a diversity of readings and multimedia tools incorporated into discussions.
Prerequisite: One ENG, CHI, CHT, or CHW course, or instructor permission.

CHT 3500 Chinese Culture 3 Credits
Grading Scheme: Letter Grade
Introduction to Chinese culture with emphasis on its philosophy, language, society, art and people as a whole. All readings in English. (H and N)
Attributes: General Education - Humanities, General Education - International

CHT 3513 Taoism and Chinese Culture 3 Credits
Grading Scheme: Letter Grade
Introduction to the general history and culture of Taoism in ancient and modern China: its thoughts, belief systems, cultural influences, practices and rituals.

CHT 3523 Hong Kong, Taiwan, and the New Global Cinema 4 Credits
Grading Scheme: Letter Grade
Overview of Sinophone film in Hong Kong, Taiwan, and the broader sphere of Chinese diaspora. Addresses film history, culture, and aesthetics.
Prerequisite: CHI 1130 or ENG 1400 or ENG 2300 or instructor permission.

CHT 4111 Dream of the Red Chamber 3 Credits
Grading Scheme: Letter Grade
Explores the intellectual and social life of traditional China through the 18th century epic novel, Story of the Stone. Also studies interpretive theories of the novel, both Chinese and Western. All readings are in English. (H and N OR S and N) (WR)
Prerequisite: CHI 3500 or CHT 3110, or instructor permission.
Attributes: General Education - Humanities, General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

CHT 4603 Journey to the West 3 Credits
Grading Scheme: Letter Grade
Exploration of traditional Chinese religious culture, cultural history and literacy expression through a 100 chapter novel known as Journey to the West, or Monkey.
Prerequisite: one course in Chinese culture or instructor permission.

CHT 4911 Undergraduate Research in English Translation 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in English Translation. Projects may involve inquiry, design, investigation, scholarship, discovery or application in English Translation.

CHW 4120 Classical Chinese 1 3 Credits
Grading Scheme: Letter Grade
Introduction to classical Chinese prose with texts drawn mainly from early histories and philosophical writings (500 BC - AD 100). Emphasis on reading comprehension, grammar analysis and translation.
Prerequisite: CHI 2231 with minimum grade of C or instructor permission.

CHW 4121 Classical Chinese 2 3 Credits
Grading Scheme: Letter Grade
Continuation of CHW 4120 focusing on classical Chinese prose with texts drawn from early historical and philosophical texts to belles lettres of the medieval era and later periods. Emphasis on reading comprehension, grammar analysis and translation.
Prerequisite: CHW 4120 or instructor permission.

CHW 4130 Readings in Chinese Literature 3 Credits
Grading Scheme: Letter Grade
Introduces advanced language students to a sampling of Chinese writers. Materials chosen from classic or modern/contemporary Chinese literature rotated across semesters. All readings in Chinese. (H and N)
Prerequisite: CHI 3410 or the equivalent.
Attributes: General Education - Humanities, General Education - International

CHW 4140 Newspaper Chinese 3 Credits
Grading Scheme: Letter Grade
Development of ability to understand and translate the documentary prose style used in Chinese newspapers and academic journals. Introduces literary function words and grammar structures, with comparison to the vernacular. Most readings in the simplified character form used in the PRC; all readings in Chinese. Applications for research on modern China.
Prerequisite: CHI 3410 or instructor permission.

CHW 4911 Undergraduate Research in Target Language 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery or application.

Czech

CZE 1130 Introduction to Czech Language and Culture 1 5 Credits
Grading Scheme: Letter Grade
CZE 1130 and its sequel, CZE 1131, offer a comprehensive introduction to Czech, using interactive methods to develop competence in speaking, listening, reading, writing and cultural interaction.

CZE 1131 Introduction to Czech Language and Culture 2 5 Credits
Grading Scheme: Letter Grade
Continuation of series. A comprehensive introduction to Czech, using interactive methods to develop competence in speaking, listening, reading, writing and cultural interaction.
Prerequisite: CZE 1130 with minimum grade of C, or S, or the equivalent.

CZE 2200 Intermediate Czech 1 3 Credits
Grading Scheme: Letter Grade
Builds reading and writing skills while continuing to develop conversational ability and listening comprehension. Using a communicative approach, provides an overview of Czech grammar.
Prerequisite: CZE 1131 with minimum grade of C, or S, or the equivalent.

CZE 2201 Intermediate Czech 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study. Goal is to further develop speaking, listening, reading and writing skills.
Prerequisite: CZE 2200 with minimum grade of C, or S, or the equivalent.

CZT 3564 Modern Czech Culture and Society 3 Credits
Grading Scheme: Letter Grade
Overview of Czech literature, film, music, pop culture and visual arts as they were shaped by the events from 1918 to the present. (H and N)
Attributes: General Education - Humanities, General Education - International

Dutch

DUT 1130 Beginning Dutch 1 5 Credits
Grading Scheme: Letter Grade
DUT 1130 and its sequel, DUT 1131, constitute the basic sequence in Dutch for the development of overall skill in the language. Open to those with little or no background in Dutch.

DUT 1131 Beginning Dutch 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence in Dutch for the development of overall skill in the language. Open to those with little or no background in Dutch.
Prerequisite: DUT 1130 with minimum grade of C, or S, or the equivalent.

French

FRE 1130 Beginning French 1 5 Credits
Grading Scheme: Letter Grade
Beginning French 1 and Beginning French 2 constitute the basic sequence in French for the development of overall skill in the language. Open to those with little or no background in French.

FRE 1131 Beginning French 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence in French for the development of overall skill in the language. Open to those with little or no background in French.
Prerequisite: FRE 1130 or FRE 1180 with minimum grade of C, or S, or the equivalent as proven by placement test score.

FRE 1134 Accelerated French Review 5 Credits
Grading Scheme: Letter Grade
Provides a rapid review of basic communicative French as preparation for intermediate French. For those with previous French study but insufficient placement scores to move to the 2000 level.
Prerequisite: Two years of high school French or equivalent.

FRE 1180 Elementary French: Review and Progress 3 Credits
Grading Scheme: Letter Grade
For those who have previous experience in French but who are not yet prepared for advanced elementary work in the language. FRE 1180 confirms overall language skill in preparation for FRE 1131.

FRE 1182 Preparation for Intermediate French 3 Credits
Grading Scheme: Letter Grade
Alternative to FRE 1131 for those who have had four years of high school French or equivalent, but whose placement scores are not high enough for FRE 2200. Combines the material of FRE 1130 and 1131 in one semester. Meets three times per week. FRE 2200 follows in the sequence.
Prerequisite: not for those with credit for FRE 1180 or FRE 1115.

FRE 2220 Intermediate French 1 4 Credits
Grading Scheme: Letter Grade
Devoted to grammar review and composition as well as to the advancement of spoken proficiency, FRE 2220 and its sequel, FRE 2221, develop reading and writing skills in French.
Prerequisite: FRE 1131 or FRE 1134 or FRE 1182.

FRE 2221 Intermediate French 2 4 Credits
Grading Scheme: Letter Grade
Continued grammar review. Emphasizes practice in reading and developing vocabulary. Selected readings in French and Francophone fiction.
Prerequisite: FRE 2220.

FRE 2274 Intensive French Abroad 6 Credits
Grading Scheme: Letter Grade
An immersion language course integrating the experience, observations and impressions of students living abroad with a French family (site announced annually). Emphasis on development of language proficiency and cultural awareness. Class meets 12 hours a week. Enhances speaking, reading, writing proficiency and the ability to communicate with native speakers.
Prerequisite: FRE 1131 with minimum grade of C, or S, or the equivalent as proven by placement test score.

FRE 3070 Accelerated Introduction to French 5 Credits
Grading Scheme: Letter Grade
An accelerated introduction to French. Assumes no previous knowledge of French. Offers a four-skill introduction to the language for those who have completed intermediate level study in another Romance language.

FRE 3224 Applied French 1-5 Credits
Grading Scheme: Letter Grade
French-language reading and discussion section designed to accompany and complement areas of diverse content offered in other departments. Readings and discussions are in French to develop specific vocabulary and fluency related to the content of the companion course, as well as to provide an international perspective on the issues of the main course. (N)
Prerequisite: FRE 2242 or instructor permission; 3 credits can count toward the major or minor.
Attributes: General Education - International

FRE 3300 Grammar and Composition 3 Credits
Grading Scheme: Letter Grade
Systematic examination of French grammar. Practice of writing at several levels (summary of texts, descriptions, compositions). Textual analysis of literary and journalistic materials. First course of major sequence.
Prerequisite: FRE 2274 or AP score of 5, IB score of 6 or SAT2 score of 700 and above.

FRE 3320 Composition and Stylistics 3 Credits
Grading Scheme: Letter Grade
Develops advanced writing skills through the stylistic study of literary and journalistic texts. Writing assignments focus on development of a variety of skills, including summaries, literary analyses, argumentative essays, etc. Aspects of French grammar are highlighted along with analytical terms and key vocabulary from texts.
Prerequisite: FRE 3300 or the equivalent.

FRE 3410 French Conversation and Interaction 3 Credits
Grading Scheme: Letter Grade
Develops and refines oral and comprehension skills relating to different domains. New vocabulary ranging from the colloquial to the most refined of discourses enables students to recognize and use words and expressions in the proper context; material enables students to move from discussions about themselves to situations they are likely to encounter in daily life abroad, through interviewing techniques and professional interaction.
Prerequisite: FRE 2221.

FRE 3440 Commercial French 3 Credits
Grading Scheme: Letter Grade
Introduction to business practices in France with particular emphasis on active use of business vocabulary and salient cultural differences. Major topics include written business communication, financial institutions, trade and advertising. (S and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - International, General Education - Social Science

FRE 3442 Contemporary French Commerce 3 Credits
Grading Scheme: Letter Grade
Continues the acquisition of business language with special attention paid to technical readings, marketing, case studies and the role of France in the European Union. Emphasis is also placed on oral communication skills and contrasting U.S. and French business culture.
Prerequisite: FRE 3300 or instructor permission.

FRE 3500 France through the Ages 3 Credits
Grading Scheme: Letter Grade
A study of France within context of the principal historical events that have formed and transformed the nation state, its mentality and its cultural production. Special attention is given to the significant political, intellectual, religious, social and artistic currents that have marked France and its image from ancient times to the present. (H and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - Humanities, General Education - International

FRE 3502 Francophone Cultures 3 Credits
Grading Scheme: Letter Grade
A study of the cultures of countries or regions where French is used as the (or one of the) official language(s) or, in a less official capacity, by a segment of the population. Study of some of the historical, conceptual, practical and problematic aspects of Francophonie. Also concentrates on one specific area (the Caribbean or West Africa or Quebec, etc., on a rotating basis). Literary samples are included. (H and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - Humanities, General Education - International

FRE 3564 Contemporary French Culture 3 Credits
Grading Scheme: Letter Grade
An overview of contemporary France that may include the study of politics, economics, education and the arts as well as ideas of national and ethnic identity and France's place in the EU. (H and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - Humanities, General Education - International

FRE 3780L Corrective Phonetics 3 Credits
Grading Scheme: Letter Grade
A survey of the units of speech cast in practical terms and organized by classes of sounds with particular emphasis on rhythm, vowels, nasalization, diphthongs and the complex phenomena that occur at word transitions in French. Taught in French, in an audio laboratory, with the instructor as monitor and with a manual designed for individualized instruction.
Prerequisite: FRE 2221 or the equivalent.

FRE 4411 French for Proficiency 2 Credits
Grading Scheme: Letter Grade
Oral practice with emphasis on the structure of oral communication and oral presentation. Learn to utilize organizational frames, highlight transitions and make oral reports clear and accessible. Speech acts and alternative options in communication are given ample attention. Especially useful to those planning to use French in a variety of professions.
Prerequisite: FRE 3410 or the equivalent.

FRE 4420 Writing in French 3 Credits
Grading Scheme: Letter Grade
Advanced writing course that provides a systematic study (or review) of French syntax, vocabulary and style with the help of drill sessions. Also may include some training in literary translation. A number of quizzes and written compositions.
Prerequisite: FRE 3320 or instructor permission.

FRE 4501 The French Language in the Americas 3 Credits
Grading Scheme: Letter Grade
Examination of the presence of French in the Americas. Topics covered include: the origin of French in the Americas, language practices of Francophone communities, linguistic characteristics of the varieties of French, the effect of language contact on language behavior and representations and identity issues. Focus varies from year to year.
Prerequisite: FRE 3320.

FRE 4780 Introduction to French Phonetics and Phonology 3 Credits
Grading Scheme: Letter Grade
An introduction to French phonological processes, providing explanatory evidence for the production of speech sounds, for the classification of sounds, for their interrelationship with one another (gliding, nasalization, assimilation), for morphological and syllable structure, for specifically French phenomena such as liaison, elision, final consonant drop, schwa drop, and for the relationship of morphology to phonology, especially in the verb system.
Prerequisite: FRE 3320; LIN 3010 recommended.

FRE 4822 Sociolinguistics of French 3 Credits
Grading Scheme: Letter Grade
Sociolinguistic issues in the French-speaking world: language variation, discourse analysis, attitudes toward varieties of French and contact with speakers of other languages.
Prerequisite: FRE 3320; LIN 3010 recommended.

FRE 4850 Introduction to the Structure of French 3 Credits
Grading Scheme: Letter Grade
Explores the French language as a system of communication and mental representation. Analyzes the morphological, syntactic and semantic aspects of contemporary French, and emphasizes the historical, psychological and sociological dimension of linguistic investigation.
Prerequisite: FRE 3320; LIN 3010 recommended.

FRE 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
For advanced major and minors who seek independent work not offered in another course. Must be arranged individually with French faculty.
Prerequisite: department permission; only three credits can count toward the minor or major.

FRE 4906 Honors Thesis 1-3 Credits
Grading Scheme: Letter Grade
Directed research leading to a 30-40 page essay on a topic approved by the thesis director; registration for two semesters is highly recommended. Not a substitute for a required course in the French major.
Prerequisite: 3.5 minimum GPA.

FRE 4911 Undergraduate Research in Language or Linguistics 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Language or Linguistics. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Language or Linguistics.

FRE 4930 Revolving Topics in French Studies 1-5 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in French studies.
Prerequisite: FRE 3320 and FRW 3100 or FRE 3101, or the equivalent.

FRE 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

FRT 2460 French Texts and Contexts 3 Credits
Grading Scheme: Letter Grade
Selected readings in English translation of major works of French literature. For those with no knowledge of French, not for credit in the major. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

FRT 2930 Special Topics in French Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Rotating topics in French literature and culture; taught in English.

FRT 3004 Monuments and Masterpieces of France 3 Credits
Grading Scheme: Letter Grade
Study of selected masterpieces of French literature, in English translation. Works to be considered as they relate to history and as they can be read in strictly literary terms. Topic varies from year to year.
Prerequisite: sophomore standing or higher.

FRT 3520 French Cinema 4-8 Credits
Grading Scheme: Letter Grade
Critical, theoretical and historical study of French cinema. Topics will be announced. Content may include key directors, 1930s cinema, nostalgia and masculinity in 1980s films, World War II cinema, and Colonial and Postcolonial cinema. Open to French majors and non-majors and is taught in English. (H and N)
Attributes: General Education - Humanities, General Education - International

FRT 3561 Women in French Literature and/or Cinema 3-4 Credits
Grading Scheme: Letter Grade
Introduction to the rich heritage of feminist traditions in France and Francophone countries through an exploration of women writers and thinkers (filmmakers, theorists), primarily of the 19th and 20th centuries. Selected topics include L'criture fminine (Writing the Feminine), autobiographical writing by French and Francophone women, women in French cinema and representations of women in French film and literature. Read, discuss and analyze a broad spectrum of primary and secondary sources from a feminist viewpoint. (H and N OR S and N)
Attributes: General Education - Humanities, General Education - International, General Education - Social Science

FRT 4523 European Identities, European Cinemas 4 Credits
Grading Scheme: Letter Grade
Provides knowledge of different cultures, languages and identities that make up contemporary European cinemas.

FRT 4911 Undergraduate Research in English Translation 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in English Translation. Projects may involve inquiry, design, investigation, scholarship, discovery or application in English Translation.

FRT 4956 Overseas Studies 3 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

FRW 3100 Introduction to French Literature 1 3 Credits
Grading Scheme: Letter Grade
Overview of French Medieval, Renaissance and classical literature and culture, with major literary, intellectual and historical trends through study of representative works from each period. Emphasizes close reading of texts to train students to read critically and to familiarize them with major authors, genres and interpretations. (H and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - Humanities, General Education - International

FRW 3101 Introduction to French Literature 2 3 Credits
Grading Scheme: Letter Grade
Selected readings of outstanding authors of prose fiction, poetry and theatre from the 18th to the 20th century. Provides the historical context for major literary movements and authors, and trains students to read and write critically. Generally organized thematically. (H and N)
Prerequisite: FRE 2221 or the equivalent.
Attributes: General Education - Humanities, General Education - International

FRW 3930 Rotating Topics in French and Francophone Literature 3 Credits
Grading Scheme: Letter Grade
Selected topics in French literature.
Prerequisite: FRE 3320 or instructor permission.

FRW 4212 Readings in 17th Century French Prose 3 Credits
Grading Scheme: Letter Grade
Selected readings with an emphasis on the history of ideas, the moralistes and culture in the early modern period. Texts include Descartes, Cyrano de Bergerac, Pascal, Fontenelle, La Rochefoucauld, La Fayette, La Bruyre and Svign.
Prerequisite: FRE 3320 and (FRW 3100 or FRW 3101), or the equivalent.

FRW 4273 Readings in 18th Century French Literature 3 Credits
Grading Scheme: Letter Grade
Rotating topics exploring the fiction, theatre or intellectual prose of the Enlightenment. Special emphasis placed on the cultural climate and productions of the ancient regime.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4281 Readings in the 20th Century French Novel 3 Credits
Grading Scheme: Letter Grade
Examination of representative novels in 20th century French literature from Proust to the New Novel and beyond. Emphasis may include study of genre, narrative techniques, literary modernism and major themes. Combines an historical approach with close textual readings. Authors frequently studied include Proust, Gide, Malraux, Cline, Camus, Sartre, Robbe-Grillet, Butor, Sarraute and Duras.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4310 Seventeenth Century French Drama 3 Credits
Grading Scheme: Letter Grade
Theory and practice of dramaturgy in the classical period as reflected in plays of Corneille, Molire and Racine. Close textual analysis to disengage aesthetic and ideological problematics posed by each play.

FRW 4324 Readings in 20th Century French Theatre 3 Credits
Grading Scheme: Letter Grade
A study of selected plays (by Jarry, Claudel, Giraudoux, Camus, Anouilh, Ghelderode, Beckett, Ionesco, Genet, etc.), dramatic techniques and the evolution of modern French theatre as a genre.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4350 Modern French Poetry from Baudelaire to the Present 3 Credits
Grading Scheme: Letter Grade
Combines an historical approach with close readings of poetic texts; also introduces a number of theoretical and critical writings. Although traditional poetic texts are studied, the works of less frequently taught poets are also presented.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4391 Concepts of French Cinema 4 Credits
Grading Scheme: Letter Grade
A critical and historical study of the representation of gender and ethnicity in French cinema.
Prerequisite: FRE 3300.

FRW 4532 Survey of French Romantic Literature 3 Credits
Grading Scheme: Letter Grade
A rotating topics tracing the development and the main tenets of 19th century French Romanticism. Concentrates on various themes and genres, including poetry, theater and the novel as well as the socioeconomic and cultural matrices that fostered the movement. Emphasizes the relationship between literature and the visual arts, constructions of gendered, cultural and artistic subjectivities, exoticism (spatial, temporal and mystical voyages) and representations of Paris and French society. Beginning with pre-Romantic authors, moves on to Lamartine, Stendhal, Hugo, Vigny, Balzac, Sand, Musset, Desbordes-Valmore, Nerval and Baudelaire.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4552 Introduction to Realism and Naturalism 3 Credits
Grading Scheme: Letter Grade
Rotating topics trace the development and the main tenets of latter 19th century literary, artistic and cultural productions. Concentrates on various themes and genres, including poetry, theatre and the novel as well as the socioeconomic and cultural matrices that fostered movements arising between 1850 and the fin de sicle. Specific attention may be devoted to definitions of Realism, Naturalism and Symbolism; representations of modern life and the industrialization of the literary market; the infiltration of scientific and mechanistic thought into literary productions (poetry or prose); and representations of women and the female body, of Paris and Parisian society.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4762 Readings in Francophone Literatures and Cultures (excluding the Caribbean and Sub-Saharan Africa) 3 Credits
Grading Scheme: Letter Grade
Rotating topics in the literatures and cultures of the Francophone world, including North America (Quebec), Europe (Belgium, Switzerland and regional France), Asia (Vietnam, Indian Ocean) and the Middle East.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4770 African and Caribbean Literatures 3 Credits
Grading Scheme: Letter Grade
The production of Sub-Saharan African writers from its inception to the present through examination of representative works and figures, genres (epics, poetry, drama, novels), discourses and critics that inform the productions. Particular attention is paid to historical, political and cultural issues that figure in the development and orientation of African literature in French. Occasional inclusion of Caribbean literature for purpose of comparison.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4822 Introduction to French Critical Theory 3 Credits
Grading Scheme: Letter Grade
Review and comparative analysis of approaches to literature from Romanticism to Deconstructionism. Reading and writing are examined through the eyes of Sainte-Beuve, Taine, Lanson, Bachelard, the Geneva School, Ricoeur, Bataille, Blanchot, Barthes, Foucault, Genette, Lacan, Kristeva, Todorov, Derrida and others.
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101, or the equivalent.

FRW 4911 Undergraduate Research in Target Language 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Target Language. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Target Language.

FRW 4932 Senior Seminar in French Literature 3 Credits
Grading Scheme: Letter Grade
Rotating topics for French majors and minors in the senior year. Topics rotate given research interests or field of specialization of the teaching faculty. Recent topics have included La Posie du Voyage; L'Ecriture Fminine; Le Discontinu chez La Rochefoucauld et La Bruyre; Charles Baudelaire: pote/critique de la vie moderne; Qu'est-ce que la Rvolte?
Prerequisite: FRE 3320 and FRW 3100 or FRW 3101.

German

GER 1125 Discover German 1 5 Credits
Grading Scheme: Letter Grade
First semester of a two-semester sequence that includes Discover German 2. In this innovative online course, students acquire basic skills in the German language and use the Internet as a resource to explore aspects of German culture and everyday life.

GER 1126 Discover German 2 5 Credits
Grading Scheme: Letter Grade
Continuation of Discover German 1. Continue acquiring basic skills in the German language using the Internet to explore aspects of German culture and everyday life.
Prerequisite: GER 1125.

GER 1130 Beginning Intensive German 1 5 Credits
Grading Scheme: Letter Grade
The first semester of a two-semester sequence that includes Beginning Intensive German 2. Emphasis is on spoken German. Reading, writing and grammar are also included in the program. Communication in German is enhanced by the use of multimedia and regular meetings with tutors. Supervised homework and drill sessions in small groups.

GER 1131 Beginning Intensive German 2 5 Credits
Grading Scheme: Letter Grade
Continuation of Beginning Intensive German 1. Emphasis is on spoken German. Reading, writing and grammar are also included in the program. Communication in German is enhanced by the use of multimedia and regular meetings with tutors. Supervised homework and drill sessions in small groups.
Prerequisite: GER 1130 with minimum grade of C, or S, or the equivalent.

GER 2200 Intermediate German 1 3 Credits
Grading Scheme: Letter Grade
Participants will improve their skills in the four basic areas (reading, writing, listening comprehension, speaking) by reviewing elements of grammar, particularly morphology (i.e., word forms), and by expanding vocabulary. Upon successful completion, students may go directly to Advanced German.
Prerequisite: GER 1104 or GER 1126 or GER 1131, or the equivalent.

GER 2225 Online Intermediate German 3 Credits
Grading Scheme: Letter Grade
Employs web-based learning resources to develop B1-level proficiencies via the reinforcement of speaking and listening comprehension, reading, and writing skills, and an exploration of selected cultural topics. For self-starters who are comfortable and successful working individually and in groups in an online learning environment.
Prerequisite: (GER 1130 and GER 1131) or (GER 1125 and GER 1126) or (10 university-level credit hours of beginning German) or the equivalent.

GER 2240 Intermediate German 2 3 Credits
Grading Scheme: Letter Grade
Objectives include improving reading and speaking skills at the intermediate level. Upon completion participants will be able to pronounce German words more accurately, listen with greater comprehension to German and respond to questions about a variety of recorded texts. Upon successful completion, students may go directly to Advanced German.
Prerequisite: GER 1104 or GER 1126 or GER 1131, or the equivalent.

GER 2270 Intermediate German Abroad 3-9 Credits
Grading Scheme: Letter Grade
A review of the major aspects of grammar in a context that enhances understanding of German and aims at a level of proficiency above the A2 level of the Common European Framework of Reference for Languages.
Prerequisite: GER 1126 with a minimum grade of C.

GER 3234 Reading German Texts 3 Credits
Grading Scheme: Letter Grade
Upon completion, students will be able to read literary and nonliterary texts and to identify the more common syntactical, stylistic and rhetorical elements.
Prerequisite: GER 2200 or GER 2240.

GER 3300 Writing German Texts 3 Credits
Grading Scheme: Letter Grade
Special focus on strategies, grammar and vocabulary involved in writing in German. Works toward a writing proficiency level that corresponds to the B1 level as defined by the European Framework of Reference for Languages and measured by the Goethe Institute exam Zertifikay Deutsch.
Prerequisite: GER 2200 or GER 2270 with a minimum grade of C.

GER 3330 German Language and Culture 1 3 Credits
Grading Scheme: Letter Grade
Introduces German civilization through grammar review, vocabulary building, reading and essay writing. Upon completion, students will be able to discuss cultural and literary concepts in German. (H)
Prerequisite: GER 2200 or GER 2240.
Attributes: General Education - Humanities

GER 3332 Topics in German Film and Culture 1 Credit
Grading Scheme: Letter Grade
GER 3224 is taught as a FLAC accompaniment to various courses. A discussion forum covering different topics in German film and culture. All materials and class discussions will be in German.
Prerequisite: GER 1104 or GER 1126 or GER 1131, or equivalent, and one 2000-level GER course.

GER 3401 German Grammar Review 3 Credits
Grading Scheme: Letter Grade
An intensive semester-long review of German grammar.
Prerequisite: GER 2200 or GER 2240, or undergraduate coordinator permission.

GER 3413 German Listening, Comprehension and Speaking 3 Credits
Grading Scheme: Letter Grade
Develops the ability to understand and produce basic kinds of speech (descriptions, simple stories, etc.).
Prerequisite: GER 2200 or GER 2240, or instructor permission.

GER 3440 German in Business 3 Credits
Grading Scheme: Letter Grade
Study of Wirt-schaftsdeutsch and the ability to read and write texts in German for international business transactions. Acquire the ability to communicate in German in professional business settings. (N and S)
Prerequisite: GER 2200 or GER 2240.
Attributes: General Education - International, General Education - Social Science

GER 3470 Advanced German Abroad 3-9 Credits
Grading Scheme: Letter Grade
Practical, in-class communication exercises at an advanced level in comprehension, speaking, reading and writing. Prepares students to achieve a proficiency level above the B1 level as established by the Common European Framework for Languages.
Prerequisite: GER 2200 or GER 2270 with a minimum grade of C, or undergraduate coordinator permission.

GER 4482 Cultural Identity and Intercultural Competence 3 Credits
Grading Scheme: Letter Grade
Listening comprehension and speaking ability in work involving German cultural identity, online and in class.
Prerequisite: GER 3410 or instructor permission.

GER 4930 Variable Topics in German Studies 3 Credits
Grading Scheme: Letter Grade
Working with German media such as major newspapers, magazines, radio and television programs, students will refine their language skills to a level similar to the B2 level of the Common European Framework for Languages.
Prerequisite: GER 3401 with a minimum grade of C or 6 credits of coursework at the GER 3000-level.

GER 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

GET 2100 German Literary Heritage 3 Credits
Grading Scheme: Letter Grade
Knowledge of German is not required. Upon completion participants will be able to discuss major works of German literature, mainly from the 18th to the 20th century. Texts and lectures in English. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

GET 3003 German Culture and Civilization 1 3 Credits
Grading Scheme: Letter Grade
Knowledge of German is not required. Introduces German civilization from the earliest times to the beginning of the 19th century. Become acquainted with German literature, philosophy, art, music and architecture. Readings and discussions in English.

GET 3004 Modern German Culture and Civilization 3 Credits
Grading Scheme: Letter Grade
Knowledge of German is not required. Introduces German civilization in the 19th and 20th centuries. Participants will be able to discuss developments in German literature, philosophy, art, music and architecture. Texts and lectures in English.

GET 3200 Medieval Literary Culture 3 Credits
Grading Scheme: Letter Grade
Studies the German literary culture of the Holy Roman Empire during the Middle Ages in its broader European context. Examines literary culture in relation to Latin literary traditions, as well as to other cultural domains such as the arts, architecture, theology, and politics. (H) (WR)
Attributes: General Education - Humanities, Satisfies 4000 Words of Writing Requirement

GET 3201 Early Modern Literary Culture 3 Credits
Grading Scheme: Letter Grade
Studies the early modern literary culture of German-speaking regions of the Holy Roman Empire in the broader European context. Examines this culture?s relation to pan-European developments, including the Renaissance, Humanism, the Reformation, and developments in the arts, architecture, theology, and politics.
Prerequisite: sophomore standing or higher.

GET 3501 History, Literature and Arts of Berlin 3 Credits
Grading Scheme: Letter Grade
Gain a working knowledge of the history and culture of Berlin from 1871 to the present by exploring literature, painting, and film. Authors and artists include Mann, Brecht, Dix, and Wenders.

GET 3520 Early German Cinema: 1945 4 Credits
Grading Scheme: Letter Grade
Historical overview of the most influential films of German classical cinema, including how they relate to the social reality of the 1920s and 30s.

GET 3580 Representations of War in Literature and Visual Media 3 Credits
Grading Scheme: Letter Grade
Study of the shifting cultural representations of war (literature/art) in the 20th century, focusing primarily on European history, culture and politics. Primary sources include Mann, Remarque, Boll, Celan, Grosz, and Kiefer.

GET 3930 Variable Topics in German Studies 3-9 Credits
Grading Scheme: Letter Grade
Variable topics in German Studies in English translation.

GET 4521 Women and German Cinema 4 Credits
Grading Scheme: Letter Grade

GET 4523 New Cinema 1945 to the Present 4 Credits
Grading Scheme: Letter Grade

GET 4930 Variable Topics in German Studies 3-9 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in German studies, in English translation.
Prerequisite: 3 credits at 3000 level or above, or instructor permission.

GEW 3100 Survey of German Literature 1 3 Credits
Grading Scheme: Letter Grade
The major periods and works of German literature from the Middle Ages to the 18th century. Texts in German.
Prerequisite: instructor permission.

GEW 3101 Survey of German Literature 2 3 Credits
Grading Scheme: Letter Grade
The major periods of German literature from the 18th century to the present. Authors include Goethe, Kleist, Kafka, Mann, Grass, and Christa Wolf. Readings in German. (H)
Attributes: General Education - Humanities

GEW 3930 Variable Topics in German Studies 3-9 Credits
Grading Scheme: Letter Grade
Variable topics in German Studies.
Prerequisite: GER 2000 or instructor permission.

GEW 4301 Introduction to German Drama and Theater 3 Credits
Grading Scheme: Letter Grade
Survey of German drama from the late medieval period to the present. Introduction to major forms, periods and authors such as Lessing, Goethe, Schiller, and Brecht. (H)
Prerequisite: GEW 3100 and GEW 3101, or the equivalent.
Attributes: General Education - Humanities

GEW 4400 Medieval Studies in German 3 Credits
Grading Scheme: Letter Grade
Read some shorter verse narratives dealing with love and chivalric adventures in the original language of the German Middle Ages (ca. 1200). In conjunction with this reading, students will learn some of the basic features of the poetic idiom (Middle High German) as well as some of the issues and problems involved in the production, transmission and editing of medieval manuscripts. (H)
Prerequisite: GEW 3100 and GEW 3101.
Attributes: General Education - Humanities

GEW 4401 German Cities as Cultural Centers 3 Credits
Grading Scheme: Letter Grade
Study of German, Austrian, and Swiss cities as cultural centers. Employs online learning resources to expand knowledge of urban cultures in German-speaking Europe and to develop linguistic and cultural proficiency toward the B2 level according to CEFR standards.
Prerequisite: GER 3401 or instructor permission.

GEW 4730 Modern German Literature 3 Credits
Grading Scheme: Letter Grade
The major trends of German literature in the first half of the 20th century, including impressionism, expressionism, Neue Sachlichkeit, workers literature and Nazi culture. Works by Thomas Mann, Hermann Hesse and Bertolt Brecht are discussed. (H)
Prerequisite: GEW 3100 and GEW 3101.
Attributes: General Education - Humanities

GEW 4731 Contemporary German Literature 3 Credits
Grading Scheme: Letter Grade
Participants will learn to discern the major trends of post WW II German literature. Students will be able to recognize the key features of works by such German authors as Bll, Grass, Weiss and Wolf, and by such Swiss and Austrian writers as Frisch, Drrenmatt and Handke. (H)
Prerequisite: GEW 3100 and GEW 3101.
Attributes: General Education - Humanities

GEW 4750 Women in German Literature 3 Credits
Grading Scheme: Letter Grade
The image of women in representative works of German literature. Study of the main themes and structures in selected works by major women writers of German-speaking countries and their unique contribution to German culture and literature. Students will use an interdisciplinary approach to literature and will learn the basic tools of gender studies. (H)
Prerequisite: any two 3000-level courses.
Attributes: General Education - Humanities

GEW 4760 Ethnic Writing in Germany 3 Credits
Grading Scheme: Letter Grade
Writings (prose, poetry, critical essays) of significant authors of non-German descent (i.e., Spaniards, Italians, Turks, Iranians) from the 1950s to the present. Insights into the lives and thinking of significant ethnic minorities in Germany during this period and the implications for German literary history and German identity. Films are also screened and discussed.
Prerequisite: GER 3234 or instructor permission.

GEW 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course. Available only by special arrangement.

GEW 4911 Undergraduate Research in German 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in German. Projects may involve inquiry, design, investigation, scholarship, discovery or application in German.

GEW 4930 Seminar in Germanic Languages and Literatures 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in Germanic language or literature. (H)
Prerequisite: any two 3000-level courses or instructor permission.
Attributes: General Education - Humanities

MEM 2500 The Tales of King Arthur 3 Credits
Grading Scheme: Letter Grade
The great literary works of the Arthurian tradition and the manner in which the tales of King Arthur serve, from their 6th century Celtic origins to the present, to articulate the interests and values of different social groups throughout history. (H and N)
Attributes: General Education - Humanities, General Education - International

MEM 3300 Castles and Cloisters: An Introduction to Medieval Communities 3 Credits
Grading Scheme: Letter Grade
Studies monastic and courtly-chivalric communities as these evolved in the Middle Ages. Explores architecture, art, literature and music illustrate how different monastic and chivalric communities saw the world and their place in it. (H and N)
Attributes: General Education - Humanities, General Education - International

Haitian Creole

HAI 1130 Beginning Haitian Creole 1 5 Credits
Grading Scheme: Letter Grade
HAI 1130 and its sequel, HAI 1131, constitute the basic sequence for development of conversational skills and grammar essentials in the language.
Prerequisite: bilingual students are encouraged to speak to the instructor as they may be able to enter directly into HAI 1131 to satisfy their foreign language requirement.

HAI 1131 Beginning Haitian Creole 2 5 Credits
Grading Scheme: Letter Grade
Second part of the basic Haitian Creole sequence for development of conversational skills and grammar essentials in the language.
Prerequisite: HAI 1130 or the equivalent.

HAI 2200 Intermediate Haitian Creole 1 3 Credits
Grading Scheme: Letter Grade
Concentrates on conversation and readings and provides an introduction to Haitian culture through music and film.
Prerequisite: HAI 1131 or the equivalent.

HAI 2201 Intermediate Haitian Creole 2 3 Credits
Grading Scheme: Letter Grade
Continued concentration on conversation with added emphasis on reading and perspectives on issues related to the Haitian way of living.

HAI 3930 Haitian Culture and Society 3 Credits
Grading Scheme: Letter Grade
Central aspects of history, politics, environment and development are addressed, including gender relations, medicine, education, work, race and class. No knowledge of Haitian Creole is required.

HAI 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course. Must be arranged individually with Haitian faculty.
Prerequisite: department permission.

HAI 4911 Undergraduate Research in Language, Linguistics, Literature, Culture in Some Combination of English, 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in language, linguistics, literature, culture in some combination of English, Haitian, Creole, or French. Projects may involve inquiry, design, investigation, scholarship, discovery or application.

HAT 3503 Haitian Culture and Literature in Translation 3 Credits
Grading Scheme: Letter Grade
Examines representations of Haiti and its culture through Haitian literature, art, film, and music.
Attributes: General Education - Humanities, General Education - International

HAT 3564 Haitian Culture and Society 3 Credits
Grading Scheme: Letter Grade
Central aspects of history, politics, environment and development are addressed, including attention to gender relations, medicine, education, work, race and class. No knowledge of Haitian Creole is required. (H and N OR S and N) (WR)
Attributes: General Education - Humanities, General Education - International, General Education - Social Science, Satisfies 2000 Words of Writing Requirement

HAT 3700 Introduction to Haitian Creole Linguistics 3 Credits
Grading Scheme: Letter Grade
Class examines the major sub-fields of linguistics by means of the Haitian Creole language. Haitian Creole syntax, morphology, phonology, semantics and lexicon are introduced in addition to sociolinguistics, dialectology, language planning, bilingualism and language contact. (H and N OR H and D) (WR)
Attributes: General Education - Diversity, General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

HAT 4911 Undergraduate Research in Language, Linguistics, Literature, Culture in Some Combination of English, 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

JMT 3500 Jamaican Creole, Reggae, and Rastafari 3 Credits
Grading Scheme: Letter Grade
Studies Jamaican Creole, reggae music, and Rastafari religion and culture; introduces the language, music, and religion of the Caribbean island. Methodology includes linguistics, ethnomusicology, and religious studies to read Jamaican Creole, interpret reggae songs, and analyze the Rastafari culture to which they link.
Prerequisite: Sophomore standing or LAS 2001 Introduction to Latin American Studies or AFH 2000 Africa in World History or AFA 2000 Introduction to African-American Studies or REL 2000 Introduction to Religion
Attributes: General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

Hebrew

A placement test is given during the first class meeting.

HBR 1130 Beginning Modern Hebrew 1 5 Credits
Grading Scheme: Letter Grade
Beginning Hebrew covers four skills: listening, speaking, reading, and writing. For those with no prior exposure to the language.

HBR 1131 Beginning Modern Hebrew 2 5 Credits
Grading Scheme: Letter Grade
Continues beginning Hebrew, covering four skills: listening, speaking, reading, and writing.
Prerequisite: HBR 1130 with minimum grade of C or S, or the equivalent.

HBR 2220 Intermediate Modern Hebrew 1 4 Credits
Grading Scheme: Letter Grade
Intermediate Hebrew study covers four skills: listening, speaking, reading, and writing with new vocabulary and grammar.
Prerequisite: HBR 1131 with minimum grade of C or S, or the equivalent.

HBR 2221 Intermediate Modern Hebrew 2 4 Credits
Grading Scheme: Letter Grade
Continues intermediate Hebrew covering four skills: listening, speaking, reading, and writing.
Prerequisite: HBR 2220 with minimum grade of C or S, or the equivalent.

HBR 3410 Advanced Modern Hebrew 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills: listening, speaking, reading, and writing with attention to more complex structures. (H and N)
Prerequisite: HBR 2220 or HBR 2133 with minimum grade of C or S, or the equivalent.
Attributes: General Education - Humanities, General Education - International

HBR 3411 Advanced Modern Hebrew 2 3 Credits
Grading Scheme: Letter Grade
Continues advanced Hebrew study of the four skills: listening, speaking, reading, and writing with attention to more complex structures. (H and N)
Prerequisite: HBR 3410 with minimum grade of C or S, or the equivalent.
Attributes: General Education - Humanities, General Education - International

HBR 3412 Hebrew News and Media 3 Credits
Grading Scheme: Letter Grade

HBR 4905 Individual Work 1-5 Credits
Grading Scheme: Letter Grade
Individual work on an approved topic.
Prerequisite: refer to the department.

HBR 4930 Special Topics 3 Credits
Grading Scheme: Letter Grade
Proseminar of variable content providing an opportunity for in-depth study of special topics in Israeli literature, history, or culture.

HBR 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

HBT 3100 Introduction to Israeli Culture 3 Credits
Grading Scheme: Letter Grade
Presentation and analysis of some key facets of Israeli culture. Topics include Jewish vs. Zionist (and Israeli non-Jewish) identities, Israeli-Palestinian conflict, Israeli-American relations, gender, and function of art in Israeli society.
Prerequisite: HBR 1130 or sophomore standing.

HBT 3223 Identity and Dissent in the Hebrew Short Story 3 Credits
Grading Scheme: Letter Grade
Traces the tension between the individual and the collective in Zionist/Israeli society over the last 100-plus years as illustrated in Hebrew short fiction.

HBT 3233 Israeli History and the Contemporary Novel 3 Credits
Grading Scheme: Letter Grade
Studies Israeli history through the lens of the contemporary novel.
Attributes: General Education - Humanities

HBT 3563 Women in Modern Hebrew Fiction 3 Credits
Grading Scheme: Letter Grade
Depictions of women in 20th century Hebrew fiction.

HBT 3564 Motherhood in Modern Hebrew Literature 3 Credits
Grading Scheme: Letter Grade
Applied feminist theories regarding motherhood to the field of modern Hebrew literature.

HMW 4200 Readings in Modern Hebrew Literature 1 3 Credits
Grading Scheme: Letter Grade
Readings in modern Hebrew novels, short fiction and poetry. While the study of literature is emphasized, some language work is presented to help with reading comprehension. Texts and instruction are in Hebrew.
Prerequisite: HBR 3411 or equivalent.

HMW 4201 Readings in Modern Hebrew Literature 2 3 Credits
Grading Scheme: Letter Grade
Readings in modern Hebrew texts, including recently published stories and poems. Class is instructed in Hebrew.
Prerequisite: HMW 4200 or equivalent.

Hindi-Urdu

HIN 1130 Beginning Hindi 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering reading, writing, listening, and speaking with emphasis on acquisition of devanagari script.

HIN 1131 Beginning Hindi 2 5 Credits
Grading Scheme: Letter Grade
Continued study with emphasis on grammar and vocabulary essential to basic communicative functions.
Prerequisite: HIN 1130 with minimum grade of C, or the equivalent, or instructor permission.

HIN 2200 Intermediate Hindi 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: HIN 1131 or equivalent, or instructor permission.

HIN 2201 Intermediate Hindi 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study.
Prerequisite: HIN 2200 or equivalent, or instructor permission.

HIN 4930 Special Topics in Hindi-Urdu 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in and in-depth study of prose or poetic genres in Hindi and/or Urdu. Supplementary critical readings in English.
Prerequisite: HIN 2201 or equivalent, or instructor permission.

Italian

ITA 1130 Beginning Italian 1 5 Credits
Grading Scheme: Letter Grade
ITA 1130 and its sequel, ITA 1131, constitute the basic sequence in Italian. Emphasis on the development of broad competence in the language. Oral-aural approach ensures competence in the four skills.

ITA 1131 Beginning Italian 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence in Italian. Emphasis on the development of broad competence in the language. Oral-aural approach ensures competence in the four skills.
Prerequisite: ITA 1130 with minimum grade of C, or S, or the equivalent.

ITA 2220 Intermediate Italian 1 4 Credits
Grading Scheme: Letter Grade
Enhances knowledge of Italian in all four skills: listening, reading, speaking and writing. The goal is to create communicative competence that enables students to advance to third year study and to benefit from their visits to Italy. (H and N)
Prerequisite: ITA 1131 or the equivalent.
Attributes: General Education - Humanities, General Education - International

ITA 2221 Intermediate Italian 2 4 Credits
Grading Scheme: Letter Grade
Completes second year sequence with emphasis on composition, literature and communication skills. (H and N)
Prerequisite: ITA 2220 or the equivalent.
Attributes: General Education - Humanities, General Education - International

ITA 3070 Accelerated Introduction to Italian 5 Credits
Grading Scheme: Letter Grade
Intensive course designed primarily for speakers or students with knowledge of another Romance language or strong linguistic abilities in another foreign language. Assumes no prior study of Italian and offers a complete four-skill (listening, speaking, reading and writing) introduction to the language.
Prerequisite: fourth semester of another romance language or instructor permission.

ITA 3224 Italian Enhancement Section 1-5 Credits
Grading Scheme: Letter Grade
Italian-language reading and discussion to accompany and complement courses in other departments. Readings and discussions are in Italian to develop vocabulary and fluency related to the content of the companion course and to provide an international perspective on the issues of the main course. (N)
Prerequisite: ITA 2221 or instructor permission. Not for credit in the major.
Attributes: General Education - International

ITA 3420 Grammar and Composition 1 3 Credits
Grading Scheme: Letter Grade
Intensive language course designed to master grammatical principles, increase vocabulary and enhance writing and composition skills.
Prerequisite: ITA 2221 or equivalent.

ITA 3500 Italian Civilization 3 Credits
Grading Scheme: Letter Grade
Variable topics class that introduces Italian civilization in historical, artistic and literary contexts. (H and N)
Prerequisite: ITA 2221 or the equivalent, or section coordinator or undergraduate advisor permission.
Attributes: General Education - Humanities, General Education - International

ITA 3564 Contemporary Italian Culture 3 Credits
Grading Scheme: Letter Grade
Variable topics class focusing on modern Italy through literature, art and mass media, and current events. (H and N)
Prerequisite: ITA 2221 or the equivalent, or section coordinator or undergraduate advisor permission.
Attributes: General Education - Humanities, General Education - International

ITA 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
For advanced minors who seek independent work not offered in another course. Must be arranged individually with Italian faculty. Only three credits can count toward the minor.
Prerequisite: program coordinator permission.

ITA 4911 Undergraduate Research in Language or History/Culture in Italian 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

ITT 2530 Italian Literature and Film 3 Credits
Grading Scheme: Letter Grade
Study of modern Italian narrative and its adaptation to film by major Italian directors. (H and N)
Attributes: General Education - Humanities, General Education - International

ITT 3431 Italy and Pilgrimages 3 Credits
Grading Scheme: Letter Grade
Through lectures, readings and discussions in English, ITT 3431 considers the continuing presence of Rome and other Italian cities as metaphors and focal points of Italian artistic and literary sensibilities. (H and N)
Attributes: General Education - Humanities, General Education - International

ITT 3521 Italian Cinema 4 Credits
Grading Scheme: Letter Grade
Critical and historical study of Italian film and directors. Topics may vary. (H and N)
Attributes: General Education - Humanities, General Education - International

ITT 3540 Murder Italian Style: Crime Fiction and Film in Italy 3 Credits
Grading Scheme: Letter Grade
Explores Italian crime fiction and film. Analysis considers specificity of Italian tradition while placing texts and films in a broader cultural and historical context, enabling critically and politically informed reading of the many applications and subversions of the generic formula. Taught in English.
Prerequisite: sophomore standing or instructor permission.

ITT 3541 Gangsters and Godfathers: Italian Mafia Movies 3 Credits
Grading Scheme: Letter Grade
Examines Italian cinematic representations of organized criminality, in particular Sicilian Cosa Nostra and Neapolitan Camorra. Analysis considers specificity of Italian tradition while placing films in a broader history of the gangster genre to allow for a critically and politically informed reading of Italian generic subversions. Taught in English.
Prerequisite: Sophomore standing or instructor permission.

ITT 3700 The Demolition of Man: Italian Perspectives on the Jewish Holocaust 3 Credits
Grading Scheme: Letter Grade
Explores a sampling of Italys texts on the Jewish Holocaust, centering on the work of survivor and theorist of the camps, Primo Levi. Material also encompasses the history of the Italian-Jewish community as well as a selection of Italian films dealing with the realities and ethical implications of the camps.
Prerequisite: sophomore standing or instructor permission.

ITT 3930 Special Topics in Italian Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Selected topics in Italian literature, civilization and culture, including crossover influence of media. Can focus on one epoch's influence on another.

ITT 4911 Undergraduate Research in Italian in English Translation 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

ITT 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

ITW 3100 Introduction to Italian Literature 1 3 Credits
Grading Scheme: Letter Grade
The origins of early Italian literature, its central themes and the cultural factors that influenced its development. Develops an ability to read in Italian and to read critically. (H)
Prerequisite: ITA 2221 or the equivalent, or section coordinator or undergraduate advisor permission.
Attributes: General Education - Humanities

ITW 3101 Introduction to Italian Literature 2 3-9 Credits
Grading Scheme: Letter Grade
The major Italian authors from the Renaissance through the 20th century. (H)
Prerequisite: ITA 2221 or the equivalent, or section coordinator or undergraduate advisor permission.
Attributes: General Education - Humanities

ITW 3310 Italian Play 3 Credits
Grading Scheme: Letter Grade

ITW 3500 Boccaccio's Decameron 3 Credits
Grading Scheme: Letter Grade
Analysis of Giovanni boccaccios canonical decameron with a focus on the literary Dimension of Text as well as the political, historical, and religious context in which the work was written.
Prerequisite: ITA 2221 or the equivalent.

ITW 4026C Representing the Humble Italy: Literature and Cinema of the Italian South 3 Credits
Grading Scheme: Letter Grade
Examines texts and films that address the so-called Southern Question; namely, the socioeconomic and cultural disparities between northern and southern Italy. Explores or contests topics and concepts including southern exclusion from official history, southern fusion of religion and superstition, resistance to modernity and mafia-related political corruption. Taught in Italian.
Prerequisite: ITA 3420, ITA 3500, ITA 3564, ITW 3100 or ITW 3101, or instructor permission.

ITW 4253 Delitto all'italiana: Crime Fiction and Film in Italy 3 Credits
Grading Scheme: Letter Grade
Explores a sampling of Italian crime fiction and film through the lens of a range of conceptual categories, including British intellectual model vs. American noir; rational inquiry vs. uncertainties of sensory perception; canon vs. popular; cosmopolitan vs. provincial; order vs. chaos; political conservatism vs. social critique. Taught in Italian.
Prerequisite: ITA 3420, ITA 3500, ITA 3564, ITW 3100 or ITW 3101, or instructor permission.

ITW 4491 Italian Theater from the Renaissance to the Early Modern Era 3 Credits
Grading Scheme: Letter Grade
Overview and analysis of evolution of Italian theater, with focus on a selection of specific examples drawn from Italian theater from the Renaissance to the early modern era. Taught in Italian.
Prerequisite: ITA 3420, ITA 3500, ITA 3564, ITW 3100 or ITW 3101, or instructor permission.

ITW 4526 Mad Love in Modern Italian Literature 3 Credits
Grading Scheme: Letter Grade
Exploration of a sampling of modern Italian literary manifestations of a love that strays beyond the conventional. Language skills addressed through discussion, oral presentations, creative writing assignments, and short papers.
Prerequisite: ITA 3420, ITA 3500, ITA 3564, ITW 3100 or ITW 3101, or instructor permission.

ITW 4580 Animals and Animality in Italian Culture 3 Credits
Grading Scheme: Letter Grade
Presentation and exploration of the figure of the nonhuman animal in the work of several modern Italian authors and poets. Analysis addresses the literary dimension of the selected animal portraits as well as any philosophical and ethical questions raised by these literary animals. Taught in Italian.
Prerequisite: 3 credits of an ITA or ITW course at the 3000 level or above.

ITW 4600 Dante's Inferno 3 Credits
Grading Scheme: Letter Grade
Semester-long, in-depth examination of Dante Alighieris text, Inferno, with the support of a variety of visual materials and digital resources devoted to Dante and his world. Special attention paid to the political, historical and religious context in which Dante wrote. Taught in Italian.
Prerequisite: ITA 3420, ITA 3500, ITA 3564, ITW 3100 or ITW 3101, or instructor permission.

ITW 4911 Undergraduate Research in Literature in Italian 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Literature in Italian. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Literature in Italian.

Japanese

JPN 1130 Beginning Japanese 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading, and writing. JPN 1130 has a strict attendance policy: if registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor.
Prerequisite: placement test.

JPN 1131 Beginning Japanese 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar. JPN 1131 has a strict attendance policy: if registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor.
Prerequisite: JPN 1130 with minimum grade of C, or S, or the equivalent as proven by placement test.

JPN 2230 Intermediate Japanese 1 5 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar. JPN 2230 has a strict attendance policy: if registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor.
Prerequisite: JPN 1131 with minimum grade of C, or S, or the equivalent as proven by placement test.

JPN 2231 Intermediate Japanese 2 5 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study. JPN 2231 has a strict attendance policy: if registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor.
Prerequisite: JPN 2230 with minimum grade of C, or S, or the equivalent as proven by placement test.

JPN 3410 Advanced Japanese 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures. JPN 3410 has a strict attendance policy: if registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor. (H and N)
Prerequisite: JPN 2231 with minimum grade of C, or S, or the equivalent as proven by placement test.
Attributes: General Education - Humanities, General Education - International

JPN 3411 Advanced Japanese 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study. JPN 3411 has a strict attendance policy. If registered students miss two or more class meetings during drop/add, they may be dropped from the class upon notification by the instructor. (H and N)
Prerequisite: JPN 3410 with minimum grade of C, or S, or the equivalent as proven by placement test.
Attributes: General Education - Humanities, General Education - International

JPN 3440 Business Japanese 3 Credits
Grading Scheme: Letter Grade
Provides grammatical structures and essential business vocabulary, develops conversation strategies and presentation skills, and raises awareness of the customs and cultural differences in Japanese business interactions.
Prerequisite: JPN 2231 with minimum grade of C or S, or the equivalent.

JPN 3730 Language in Japanese Society 3 Credits
Grading Scheme: Letter Grade
Analysis of variation in regional dialects: gender-based differences, pragmatics of interpersonal communication, language acquisition and discourse structure. (S and N)
Attributes: General Education - International, General Education - Social Science

JPN 4415 Japanese Translation: Theory and Practice 3 Credits
Grading Scheme: Letter Grade
Key concepts and approaches of translation studies applied to the translation of Japanese to English, and English to Japanese, in a variety of media, genre, and text types.
Prerequisite: JPN 3410 or equivalent with a minimum grade of C or instructor permission.

JPN 4850 Structure of Japanese 3 Credits
Grading Scheme: Letter Grade
Linguistic analysis of modern standard Japanese. Topics include phonology, morphology, syntax, semantics and writing. Readings and discussions in English. (S and N)
Prerequisite: JPN 1131 or instructor permission.
Attributes: General Education - International, General Education - Social Science

JPN 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course. Available only by special arrangement.

JPN 4911 Undergraduate Research in Language or Linguistics 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research in Language or Linguistics. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Language or Linguistics.

JPN 4930 Special Topics in Japanese Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in and in-depth study of special topics in Japanese studies.

JPN 4935 Senior Honors Thesis 3 Credits
Grading Scheme: Letter Grade
Select a Japanese faculty member to act as director for an independent research project that culminates in an honors thesis.
Prerequisite: Minimum 3.5 GPA and instructor permission.

JPN 4940 Internship 3 Credits
Grading Scheme: Letter Grade
Faculty (or delegated authority) supervised internship. Requires a written post-internship report.
Prerequisite: instructor and department permission.

JPN 4956 Overseas Studies 1 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

JPN 4957 Overseas Studies 2 1-15 Credits
Grading Scheme: Letter Grade
Revolving topics provide a mechanism for coursework taken at a foreign university as part of an approved study abroad program to be transferred to UF. Credits taken will be entered in the student's transcript and may or may not count toward graduation, at the discretion of major's advisors.
Prerequisite: undergraduate advisor permission.

JPT 3100 Tales of Kyoto 3 Credits
Grading Scheme: Letter Grade
An investigation of literary texts from the 8th through the 17th centuries presented within the framework of Western literary and feminist criticism. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 3120 Modern Japanese Fiction in Translation 3 Credits
Grading Scheme: Letter Grade
A critical examination of stories, autobiographies and secondary criticism from the 19th century to the present. Become familiar with the forms and topics of criticism through Japanese and Western sources. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

JPT 3121 Contemporary Japanese Literature: Postwar to Postmodern 3 Credits
Grading Scheme: Letter Grade
Companion to JPT 3120 that reflects the increasing clarity with which contemporary Japanese literature (1945 to present) is emerging as a separate field with its own set of issues, major texts and significance for the American student of Japan. Writers range from Dazai and Oe Kenzaburo to Murakami Haruki, and issues range from subjectivity to cybernetics.

JPT 3140 Modern Women Writers 3 Credits
Grading Scheme: Letter Grade
Examination of narratives written by women who published during the Taisho (1912-25), Showa (1925-89) and Heisei (1989 to present) periods. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 3150 Classical Japanese Poetry 3 Credits
Grading Scheme: Letter Grade
Historical survey of traditional Japanese poetry (waka) from the 8th to the 16th century. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 3300 Samurai War Tales 3 Credits
Grading Scheme: Letter Grade
Explores the historical and cultural stimuli that led to war, recorded later as war narratives. Supported by images of architecture, narrative picture scrolls, and extant military accoutrements. (H and N)
Corequisite: JPT 3500 recommended.
Attributes: General Education - Humanities, General Education - International

JPT 3330 Early Modern Japanese Literature 3 Credits
Grading Scheme: Letter Grade
Surveys Japanese literature of the Early Modern period (also called the Edo period), 1600-1868. Introduces and analyzes historically significant, foundational works of Early Modern Japanese literature and theater. Explores the history of the period and the development of print technologies and new genres, and introduces critical aesthetic and cultural concepts.
Prerequisite: JPT 3500 or JPT 3100 or JPT 3300 or JPN 2230

JPT 3391 Introduction to Japanese Film 4 Credits
Grading Scheme: Letter Grade
Introduces the formal and historical features of Japanese film that have given it a unique position in film history. Emphasizes formal and critical analysis as well as the intellectual stakes of studying non-western film.

JPT 3500 Japanese Culture 3 Credits
Grading Scheme: Letter Grade
Introduction to Japanese culture with emphasis on tracing the origin and development of important aspects of Japanese literature, art, religion and society. All readings in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

JPT 3702 Japanese Visual Culture 3 Credits
Grading Scheme: Letter Grade
Explores issues within Japanese visual culture, and uses visual-cultural products to explore Japanese political, cultural, social, and historical issues. Introduces and analyzes historically significant, foundational works of Japanese visual culture, unpacks genre and genre tropes in contemporary works, and analyzes several visual-cultural works that tackle significant social issues.
Prerequisite: JPT 3500 or JPT 3120 or ASH 3442

JPT 4130 The Tale of Genji 3 Credits
Grading Scheme: Letter Grade
Investigation of the 11th-century masterpiece and its pervasive influence on Japanese literature, past and present. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 4502 Japanese Folklore 3 Credits
Grading Scheme: Letter Grade
Study of native belief systems and the supernatural as reflected in the folk practice of ritual observance and in tales, myths, songs and proverbs. (H and N)
Attributes: General Education - Humanities, General Education - International

JPT 4510 Representations of Japan's Modern Empire 3 Credits
Grading Scheme: Letter Grade
Examines a variety of literary, historical, anthropological, and theoretical texts to explore racial and social issues related to Japan's imperial past. (H and N)
Corequisite: JPT 3500 recommended.
Attributes: General Education - Humanities, General Education - International

JPT 4911 Undergraduate Research in English Translation 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

JPT 4956 Overseas Studies 1 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

JPT 4957 Overseas Studies 2 1-15 Credits
Grading Scheme: Letter Grade
Revolving topics provide a mechanism for coursework taken at a foreign university as part of an approved study abroad program to be transferred to UF. Credits taken will be entered in the student's transcript and may or may not count toward graduation, at the discretion of major's advisors.
Prerequisite: undergraduate advisor permission.

JPW 3143 Classical Japanese 1 3 Credits
Grading Scheme: Letter Grade
Introduction to classical Japanese texts with emphasis on reading comprehension, grammar analysis and translation.
Prerequisite: JPN 2231 with minimum grade of C, or the equivalent.

JPW 3144 Classical Japanese 2 3 Credits
Grading Scheme: Letter Grade
Complex texts in classical Japanese with focus on comprehension, grammar, literature and culture.
Prerequisite: JPN 3143 with minimum grade of C, or the equivalent.

JPW 4130 Readings in Japanese Literature 3 Credits
Grading Scheme: Letter Grade
A fourth-year language course based on literary texts, incorporating advanced reading skills and the analysis of literature in the original. (H and N)
Prerequisite: JPN 3411 with minimum grade of C or S, or the equivalent as proven by placement test.
Attributes: General Education - Humanities, General Education - International

JPW 4131 Japanese Texts and Contexts 3 Credits
Grading Scheme: Letter Grade
Complements JPW 4130, Readings in Japanese Literature, and focuses on contemporary issues as encountered in a variety of Japanese media.
Prerequisite: JPN 3411 with minimum grade of C or S, or the equivalent as proven by placement test.

JPW 4911 Undergraduate Research in Target Language 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research in Target Language. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Target Language.

Korean

KOR 1130 Beginning Korean 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering speaking, listening, reading, writing, and cultural interaction.
Prerequisite: placement test.

KOR 1131 Beginning Korean 2 5 Credits
Grading Scheme: Letter Grade
Continued study of speaking, listening, reading, writing and cultural interaction.
Prerequisite: KOR 1130 with minimum grade of C, or S, or the equivalent.

KOR 2230 Intermediate Korean 1 5 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: KOR 1131 with minimum grade of C or S, or the equivalent.

KOR 2231 Intermediate Korean 2 5 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: KOR 2230 with minimum grade of C or S, or the equivalent.

Lingala

LGL 1130 Beginning Lingala 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

LGL 1131 Beginning Lingala 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: LGL 1130 with minimum grade of C, or the equivalent.

LGL 2200 Intermediate Lingala 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: LGL 1131 with minimum grade of C, or the equivalent.

LGL 2201 Intermediate Lingala 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: LGL 2200 with minimum grade of C, or the equivalent.

LGL 3410 Advanced Lingala 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: LGL 2201 with minimum grade of C, or the equivalent.

LGL 3411 Advanced Lingala 2 3 Credits
Grading Scheme: Letter Grade
Continuation advanced study of the four skills with attention to more complex structures.
Prerequisite: LGL 3410 with minimum grade of C, or the equivalent.

Polish

PLT 2560 Poland through Movies 4 Credits
Grading Scheme: Letter Grade
Introductory survey of more than one thousand years of Polish history, illustrated on film.

PLT 3520 Polish Cinema 4 Credits
Grading Scheme: Letter Grade
Examination of principal developments and major directors of modern Polish cinema with emphasis on the visual and narrative techniques that distinguish Polish cinema from Hollywood and other national cinemas. Taught in English. (Cross-listed with ENG 4135.)

PLT 3930 Special Topics in Polish Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics in Polish literature, culture and society. Taught in English.

POL 1130 Introduction to Polish Language and Culture 1 5 Credits
Grading Scheme: Letter Grade
A two-semester Polish language sequence that introduces the basics of Polish language and culture.

POL 1131 Introduction to Polish Language and Culture 2 5 Credits
Grading Scheme: Letter Grade
Second in the two-semester sequence. Helps to expand vocabulary, command of Polish grammar, and the ability to speak Polish.
Prerequisite: POL 1130 or placement test.

POL 2220 Intermediate Polish 1 4 Credits
Grading Scheme: Letter Grade
Improve speaking, reading, writing, and listening comprehension skills by reviewing and expanding the language principles introduced in POL 1130 and POL 1131.

POL 2221 Intermediate Polish 2 4 Credits
Grading Scheme: Letter Grade
Improve speaking, reading, writing, and listening comprehension skills by reviewing and building upon the language principles introduced in POL 2220.

Russian

RUS 1130 Introduction to Russian Language and Culture 1 5 Credits
Grading Scheme: Letter Grade
RUS 1130 and its sequel, RUS 1131, offer a comprehensive introduction to Russian, using interactive methods to develop competence in speaking, listening, reading, writing and cultural interaction.

RUS 1131 Introduction to Russian Language and Culture 2 5 Credits
Grading Scheme: Letter Grade
Continuation of introductory language and cultural study.
Prerequisite: RUS 1130 with minimum grade of C or S, or the equivalent.

RUS 2220 Intermediate Russian 1 4 Credits
Grading Scheme: Letter Grade
Intermediate study with exercises in sentence patterns, vocabulary building and oral and written discourse in Russian.
Prerequisite: None

RUS 2340 Russian for Heritage Learners 3 Credits
Grading Scheme: Letter Grade
A practical overview of Russian grammar and writing for those with significant bilingual speaking and listening backgrounds. Devotes special attention to reading, writing and vocabulary development.
Prerequisite: instructor or undergraduate coordinator permission.

RUS 3240 Oral Practice in Russian 3 Credits
Grading Scheme: Letter Grade
Development of advanced speaking and listening skills in conversational Russian.
Prerequisite: None

RUS 3400 Intermediate Russian 2 4 Credits
Grading Scheme: Letter Grade
Continued study with exercises in sentence patterns, vocabulary building and sustained oral and written discourse.
Prerequisite: RUS 2220 or the equivalent.

RUS 4000 Advanced Russian 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills (speaking, listening, reading, and writing) with attention to more complex structures.
Prerequisite: None

RUS 4001 Advanced Russian 2 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills (speaking, listening, reading, and writing) with attention to more complex structures.
Prerequisite: RUS 4000 with a minimum grade of C or S or the equivalent as proven by a placement test.

RUS 4300 Advanced Grammar and Composition 3 Credits
Grading Scheme: Letter Grade
Study of advanced grammar and composition in Russian.
Prerequisite: one 3000-level Russian course or the equivalent.

RUS 4411 Advanced Oral Practice 3 Credits
Grading Scheme: Letter Grade
Continued development of advanced speaking and listening skills based on authentic written, audio and video texts from contemporary Russian culture.
Prerequisite: RUS 3240.

RUS 4501 Russian Studies Research Seminar 3 Credits
Grading Scheme: Letter Grade
Introduces significant trends and ideas in Russian literary, cultural, historical, and critical studies. Develop the ability to understand and produce critical scholarly argument in a variety of formats, including class discussion, formal presentation and a written research project.
Prerequisite: None

RUS 4502 Language and Culture of the Russian Business World 3 Credits
Grading Scheme: Letter Grade
Combines advanced language training, a practical introduction to the language and culture of the contemporary Russian business world, and extensive practice translating and interpreting texts used in business settings. Focuses on issues such as starting companies and joint ventures, advertising, and setting up and conducting official meetings and telephone calls. Basic Russian business ethics are also studied.
Prerequisite: RUW 3101, RUW 4341 or the equivalent, or instructor permission.

RUS 4503 Theory and Practice of Russian-English Translation 1 3 Credits
Grading Scheme: Letter Grade
The first part of a two-part translation series focusing on the theory and practice of conveying word semantics in Russian-English and English-Russian translation.
Prerequisite: RUW 3101, RUW 4341 or instructor permission.

RUS 4504 Theory and Practice of Russian-English Translation 2 3 Credits
Grading Scheme: Letter Grade
The second part of the translation series focusing on the theory and practice of conveying sentence and paragraph semantics in Russian-English and English-Russian translation.
Prerequisite: RUW 3101, RUW 4341 or instructor permission.

RUS 4700 Structure of the Russian Language 3 Credits
Grading Scheme: Letter Grade
Introduction to the phonology, morphology and syntax of contemporary standard Russian from a formal and semantic standpoint. Also includes the development of Russian word stress and a survey of the development of Russian verb tense, aspect and mood.
Prerequisite: one 3000-level Russian course or the equivalent.

RUS 4780 Corrective Phonetics and Intonation 3 Credits
Grading Scheme: Letter Grade
Develops advanced-level phonetic and intonational skills via a variety of genres of authentic texts from Russian culture.
Prerequisite: RUW 3101, RUW 4341 or instructor permission.

RUS 4905 Individual Work in Russian 1-3 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course. Available only by special arrangement.
Prerequisite: RUS 2220 or the equivalent.

RUS 4911 Undergraduate Research in Russian Language 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Russian Language. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Russian Language.

RUS 4930 Special Topics in Russian 3-9 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in Russian studies. New, experimental, or one-time offerings.

RUS 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

RUT 3101 Russian Masterpieces 3 Credits
Grading Scheme: Letter Grade
Introduces the Russian literature of the 19th-21st centuries. Read some of the most influential works by Pushkin, Gogol, Tolstoy, Dostoevsky, Chekhov, Nabokov, Pasternak and Sorokin, thereby gaining essential knowledge of Russian history, culture and the authors personal lives. Readings and discussions in English. (H and N)
Prerequisite: sophomore standing.
Attributes: General Education - Humanities, General Education - International

RUT 3441 Tolstoy and Dostoevsky 3 Credits
Grading Scheme: Letter Grade
Introduction to the major 19th century Russian novelists and their contemporaries. Readings and discussions in English. (H)
Attributes: General Education - Humanities

RUT 3442 Themes from Russian Literature 3 Credits
Grading Scheme: Letter Grade
An examination of Russian everyday life and institutions of the 19th and 20th centuries through the media of literature and film. (H and N)
Attributes: General Education - Humanities, General Education - International

RUT 3452 Russian Literature of the Twentieth Century 3 Credits
Grading Scheme: Letter Grade
Authors, movements and genres in Russian literature from the Revolution of 1917 to the present. Readings and discussions in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

RUT 3500 Russian Cultural Heritage 3 Credits
Grading Scheme: Letter Grade
An introduction to the culture of pre-revolutionary Russia. Philosophical, religious, artistic and literary currents in relation to Western civilization. Readings and discussions in English. (H and N)
Attributes: General Education - Humanities, General Education - International

RUT 3501 Contemporary Russian Culture and Society 3 Credits
Grading Scheme: Letter Grade
Patterns of continuity and change in the philosophical and cultural values of Russian society as they explain the Soviet Union and contemporary Russia. Readings and discussions in English. (H)
Attributes: General Education - Humanities

RUT 3503 Violence and Terror in the Russian Experience 3 Credits
Grading Scheme: Letter Grade
An examination of the impact of violence and terror on the human condition as reflected and expressed in well-known works of Russian literature (fiction and historical narratives), art and film. Taught in English. No knowledge of other languages required. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

RUT 3504 Russia Today 3 Credits
Grading Scheme: Letter Grade
Patterns of continuity and change in the philosophical and cultural values of Russian society as they explain the Soviet Union and contemporary Russia. Readings and discussions in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

RUT 3506 Creative Lives: Writers, Artists, and Extraordinary People 3 Credits
Grading Scheme: Letter Grade
Explores Russian visions of creativity and creative people in Russian culture by placing them in dialogue with broader European and American models and considerations of creativity.
Prerequisite: sophomore standing or higher, or instructor permission.

RUT 3514 Russian Fairy Tales 3 Credits
Grading Scheme: Letter Grade
A critical introduction to Russian fairy tales and folklore and an examination of the aesthetic, social, cultural and psychological values they reflect. (H and N)
Attributes: General Education - Humanities, General Education - International

RUT 3524 Russia through Film 3 Credits
Grading Scheme: Letter Grade
Examines Russian life, institutions, and the arts against the background of period-defining historical, political, and cultural events from the early twentieth century to the present day as reflected and refracted in some emblematic feature films, documentaries, and animated cartoon films produced in the Soviet Union and post-Soviet Russia.
Prerequisite: sophomore standing or higher, or instructor permission.

RUT 3530 Russia's Struggle with Nature: Legacies of Destruction and Preservation 3 Credits
Grading Scheme: Letter Grade
Explores competing concepts of nature in modern Russian culture through works of Russian fiction and non-fiction in translation. Emphasis falls on environmental problems in Russia and the former Soviet Union (desiccation of the Aral Sea, pollution of Lake Baikal, the Chernobyl nuclear accident etc.) and their impact on Russian thought.
Prerequisite: sophomore standing or instructor permission.

RUT 3600 The Twentieth Century through Slavic Eyes 3 Credits
Grading Scheme: Letter Grade
Introduction to the literature, film and culture of 20th century Eastern and Central Europe. (H and N)
Attributes: General Education - Humanities, General Education - International

RUT 3930 Variable Topics in Russian Studies 1-9 Credits
Grading Scheme: Letter Grade
Variable topics in Russian studies, taught in English translation.

RUT 4440 Pushkin and Gogol 3 Credits
Grading Scheme: Letter Grade
Major works of Russian literature written the first half of the 19th century. Readings and discussions in English. (H)
Attributes: General Education - Humanities

RUT 4450 Russian Modernism 3 Credits
Grading Scheme: Letter Grade
Introduction to the major artistic contributions of Russian modernism in the context of the political, social, and cultural upheavals of late Imperial to Stalinist Russia (1890 - 1939). (H and N)
Attributes: General Education - Humanities, General Education - International

RUT 4911 Undergraduate Research in Russian Studies, English Translation 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

RUT 4930 Variable Topics in Russian Studies 1-9 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in Russian studies, taught in English translation.
Prerequisite: one 3000-level Russian course or instructor permission.

RUW 3101 Reading Russian Literature 3 Credits
Grading Scheme: Letter Grade
An in-depth study of the vocabulary, structures, reading strategies and cultural background needed for understanding and interpreting a broad range of Russian prose fiction. (H)
Prerequisite: RUS 3400 or the equivalent.
Attributes: General Education - Humanities

RUW 4301 Russian Drama and Poetry 3-6 Credits
Grading Scheme: Letter Grade
Study of plays and poems by major Russian writers from the 19th and 20th centuries. Readings in Russian.

RUW 4341 Russian Media Culture 3 Credits
Grading Scheme: Letter Grade
An in-depth study of the history and recent trends in the Russian mass media and web-based technology and their impact on culture and society.
Prerequisite: RUS 3400 or RUS 4001 with minimum grade of C.

RUW 4370 Russian Short Prose 3 Credits
Grading Scheme: Letter Grade
Critical study of selected Russian short stories. Readings in Russian. (H)
Attributes: General Education - Humanities

RUW 4630 Reading Eugene Onegin: Pushkin and Nabokov 3 Credits
Grading Scheme: Letter Grade
An in-depth study of one of Russia's most revered literary works, combining close readings of Pushkin's original with analyses of operatic, artistic and cinematic adaptations by Chaikovsky, Nabokov and others. Readings and discussions primarily in Russian.
Prerequisite: RUW 3101 or the equivalent, or instructor permission.

RUW 4911 Undergraduate Research in Russian Studies, Target Language 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

RUW 4932 Selected Readings in Russian 1-3 Credits
Grading Scheme: Letter Grade
Special topic, author, genre or movement in Russian literature. (H)
Prerequisite: one 3000-level course or the equivalent.
Attributes: General Education - Humanities

Swahili

SSW 3303 Swahili Oral Literature 3 Credits
Grading Scheme: Letter Grade
Introduces various genres of Swahili oral literatures and shows their importance, relevance and function within Swahili culture.

SWA 1130 Beginning Swahili 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

SWA 1131 Beginning Swahili 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: SWA 1130 with minimum grade of C, or S, or the equivalent.

SWA 2200 Intermediate Swahili 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: SWA 1131 with minimum grade of C or S, or the equivalent.

SWA 2201 Intermediate Swahili 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: SWA 2200 with minimum grade of C or S, or the equivalent.

SWA 3410 Advanced Swahili 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: SWA 2201 with minimum grade of C, or the equivalent.

SWA 3411 Advanced Swahili 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study of the four skills with attention to more complex structures.
Prerequisite: SWA 3410 with minimum grade of C, or S, or the equivalent.

SWA 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course.
Prerequisite: instructor permission.

SWW 4100 Readings in Swahili 3 Credits
Grading Scheme: Letter Grade

Vietnamese

VTN 1130 Beginning Vietnamese 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

VTN 1131 Beginning Vietnamese 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: VTN 1130 with minimum grade of C or S, or the equivalent.

VTN 2220 Intermediate Vietnamese 1 4 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: VTN 1131 with minimum grade of C or S, or the equivalent.

VTN 2221 Intermediate Vietnamese 2 4 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: VTN 2220 with minimum grade of C or S, or the equivalent.

VTN 2340 Vietnamese for Heritage Learners 1 4 Credits
Grading Scheme: Letter Grade
For those with significant speaking and listening skills, but limited reading and writing skills. Emphasis on developing latter two skills.
Prerequisite: instructor permission.

VTN 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For independent work not offered in another course. Available only by special arrangement.

VTN 4930 Special Topics in Vietnamese Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in Vietnamese studies. Available only by special arrangement.

VTT 3500 Vietnamese Culture 3 Credits
Grading Scheme: Letter Grade
Overview of Vietnamese culture, language and history. Focuses on Vietnamese cultural norms, attitudes, values and culture through an examination of history, religious practices, language, literature, family structures, cuisine, daily life and the arts. (H and N)
Prerequisite: Any Asia-related ASH, CHI, CHT, JPN, JPT, REL, or VTN course.
Attributes: General Education - Humanities, General Education - International

Wolof

WOL 1130 Beginning Wolof 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

WOL 1131 Beginning Wolof 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: WOL 1130 with minimum grade of C, or the equivalent.

WOL 2200 Intermediate Wolof 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: WOL 1131 with minimum grade of C, or the equivalent.

WOL 2201 Intermediate Wolof 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study.
Prerequisite: WOL 2200 with minimum grade of C, or the equivalent.

WOL 3410 Advanced Wolof 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: WOL 2201 with minimum grade of C, or the equivalent.

WOL 3411 Advanced Wolof 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study of the four skills with attention to more complex structures.
Prerequisite: WOL 3410 with minimum grade of C, or the equivalent.

Xhosa

XHO 1130 Beginning Xhosa 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

XHO 1131 Beginning Xhosa 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: XHO 1130 with minimum grade of C, or the equivalent.

XHO 2200 Intermediate Xhosa 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: XHO 1131 with minimum grade of C, or the equivalent

XHO 2201 Intermediate Xhosa 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: XHO 2200 with minimum grade of C, or the equivalent.

XHO 3410 Advanced Xhosa 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: XHO 2201 with minimum grade of C, or the equivalent.

XHO 3411 Advanced Xhosa 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study.
Prerequisite: 3410 with minimum grade of C, or the equivalent.

Yoruba

SSA 3730 Language in African Society 3 Credits
Grading Scheme: Letter Grade
The role of language in the development of African societies. Language and nation building. (S and N)
Attributes: General Education - International, General Education - Social Science

YOR 1130 Beginning Yoruba 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

YOR 1131 Beginning Yoruba 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: YOR 1130 with minimum grade of C or S, or the equivalent.

YOR 2200 Intermediate Yoruba 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: YOR 1131 with minimum grade of C or S, or the equivalent.

YOR 2201 Intermediate Yoruba 2 3 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: YOR 2200 with minimum grade of C or S, or the equivalent.

YOR 3410 Advanced Yoruba 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: YOR 2201 with minimum grade of C, or the equivalent.

YOR 3411 Advanced Yoruba 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study of the four skills with attention to more complex structures.
Prerequisite: YOR 3410 with minimum grade of C, or the equivalent.

YOR 4502 Yoruba Oral Literature 3 Credits
Grading Scheme: Letter Grade
Overview of the genres of Yoruban oral literature, stressing the importance of the spoken word in Yoruban culture and the training of Yoruban verbal artists and their place in Yoruban society.
Prerequisite: YOR 1131 or instructor permission;
Corequisite: YOR 2200, YOR 2201, or instructor permission.

YOR 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course.
Prerequisite: instructor permission.

YOT 3500 Yoruba Diaspora in the New World 3 Credits
Grading Scheme: Letter Grade
Introduction to the scope and importance of Yoruban culture in the New World and its role and significance in the resilience of African cultures in North America, South America and the Caribbean. (WR)
Prerequisite: HUM 2420, HUM 2424, or instructor permission.
Attributes: Satisfies 6000 Words of Writing Requirement

YRW 4130 Readings in Yoruba Literature 3 Credits
Grading Scheme: Letter Grade
Reading skills and the analysis of literature in the original language.
Prerequisite: YOR 3411 or the equivalent.

Latin American Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

FOT 4801 Theory and Practice of Foreign Language Translation 3 Credits
Grading Scheme: Letter Grade
Provides a historical and theoretical basis in translation studies, exposure to different translation techniques, introduction to some of the ethical, political and cultural discussions in the field, and practical experience. Discussion is based on close readings of original and translated texts in various media and from a variety of disciplines.
Prerequisite: instructor permission.

FOT 4803 Foreign Language Translation for the Professions 3 Credits
Grading Scheme: Letter Grade
Develop the practice of instrumental translation skills in a variety of technical domains, including translation for new media, medical, legal, and business environments. Focuses on the technical, cultural, and terminological problems that characterize localization and globalization as governing criteria of translation in today's knowledge economy.
Prerequisite: FOT 4801.

FOT 4810 Advanced Foreign Language Translation Workshop 3 Credits
Grading Scheme: Letter Grade
Advanced variable content seminar focusing on special topics in translation such as literary translation translation history and criticism cross-cultural communications and translation ethics and the philosophy of translation.
Prerequisite: FOT 4801 and (CHW 4150 or FOT 4803 or FRE 3320 or FRE 4420 or HBR 4930 or JPN 4415 or POR 4930 or RUS 4503 or RUS 4504 or SPN 3435 or SPN 3930 or SPN 4930). Co-enrollment in elective course with certificate administrator approval.

LAS 2001 Introduction to Latin American Studies 3 Credits
Grading Scheme: Letter Grade
Interdisciplinary introduction to the study of Latin American societies and cultures. Provides general knowledge of Latin America and its people, preparing students for future coursework in Latin American studies. (H or S, and N)
Attributes: General Education - Humanities, General Education - International, General Education - Social Science

LAS 3930 Special Topics in Latin American Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics in Latin American studies.

LAS 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Qualified students choose a topic in Latin American studies that cuts across disciplines. Students work under the supervision of a faculty member affiliated to the Center for Latin American Studies.

LAS 4911 Undergraduate Research in Latin American Studies 0-3 Credits
Grading Scheme: Letter Grade
Course provides firsthand, supervised research in Latin American Studies. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Latin American Studies.

LAS 4935 Latin American Area Seminar 3 Credits
Grading Scheme: Letter Grade
Multidisciplinary variable topics seminar. Required of all candidates for the undergraduate certificate and minor in Latin American studies. (WR)
Prerequisite: requires advance approval.
Attributes: Satisfies 6000 Words of Writing Requirement

Latin | Classics

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

LAT 1101 Beginning Latin 2 3 Credits
Grading Scheme: Letter Grade
The second part of the sequence for those with little or no background in Latin.
Prerequisite: LAT 1120 with minimum grade of C or S, or the equivalent.

LAT 1104 Beginning Latin 3 3 Credits
Grading Scheme: Letter Grade
The third part of the sequence for students with little background in high-school Latin.
Prerequisite: LAT 1101 with minimum grade of C or S, or the equivalent.

LAT 1120 Beginning Latin 1 4 Credits
Grading Scheme: Letter Grade
The first of a 3-semester sequence for students with little or no background in Latin. Others enrolling in the course will be required to take it for an S-U grade.

LAT 1130 Accelerated Beginning Latin 1 5 Credits
Grading Scheme: Letter Grade
This course and its sequel, LAT 1131, constitute the basic sequence for development of overall skill in the language. Students are expected students to have little or no background in Latin. Others enrolling in the course will be required to take it for an S-U grade.

LAT 1131 Accelerated Beginning Latin 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the basic sequence for development of overall skill in the language.
Prerequisite: LAT 1130 with minimum grade of C, or S, or the equivalent.

LIT 2000 Introduction to Literature 3 Credits
Grading Scheme: Letter Grade
Examines the important role literature has played in individuals' lives and in society, presenting a range of literary styles and genres, from different countries and historical periods. Special attention paid to development of critical skills of analysis and interpretation. (H)
Prerequisite: ENC 1101
Attributes: General Education - Humanities

LNW 2321 Introduction to Vergil 3 Credits
Grading Scheme: Letter Grade
Readings in Vergil's Eclogues, Georgics and/or the Aeneid, with emphasis on introducing Vergilian style, diction poetic techniques and basic genre differences. Review of Latin grammar and syntax. (H)
Prerequisite: LAT 1104 or LAT 1131 or two years of high school Latin.
Attributes: General Education - Humanities

LNW 2560 Readings in Latin Literature 3 Credits
Grading Scheme: Letter Grade
Examines various aspects of Roman life through readings in Latin literature (with a focus on either special subjects, authors, genres or periods) and a review of Latin grammar. (H)
Prerequisite: LAT 1104, LAT 1131 or two years of high school Latin, or instructor permission.
Attributes: General Education - Humanities

LNW 2630 Latin Love Poetry 3 Credits
Grading Scheme: Letter Grade
Translation and interpretation of selected poems of Catullus and a thorough review of Latin grammar. (H and N)
Prerequisite: LAT 1104 or LAT 1131 or two years of high school Latin, or instructor permission.
Attributes: General Education - Humanities, General Education - International

LNW 3220 The Ancient Novel 3 Credits
Grading Scheme: Letter Grade
Readings from Petronius, Apuleius or the Historia Apollonii Regis Tyri. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3310 Roman Drama 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of the comedies of Plautus and Terence or the tragedies of Seneca. (H)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities

LNW 3320 Roman Elegy and Lyric 3 Credits
Grading Scheme: Letter Grade
Selected poems of Catullus, Horace, Tibullus, Propertius or Ovid. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3360 Roman Satire 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of the Roman satirists Horace, Persius, Juvenal or Martial. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3380 The Roman Historians 3 Credits
Grading Scheme: Letter Grade
Readings in Latin from one of the Roman historians: Sallust, Caesar, Livy or Tacitus. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3490 Medieval Latin 3 Credits
Grading Scheme: Letter Grade
Readings from Medieval Latin 350 - 1200 A.D. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3644 Cicero 3 Credits
Grading Scheme: Letter Grade
Essays, speeches and letters of Cicero. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3660 Vergil and Roman Epic 3 Credits
Grading Scheme: Letter Grade
Translation and analysis of selections from Vergil's Aeneid in the light of his epic techniques and the spirit of the Augustan Age. (H and N)
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.
Attributes: General Education - Humanities, General Education - International

LNW 3930 Studies in Latin Literature 3 Credits
Grading Scheme: Letter Grade
A rotating topics course providing in-depth study of a particular author (e.g., Suetonius), genre (e.g., didactic poetry) or period (e.g., The Silver Age).
Prerequisite: one 2000-level Latin course, advanced placement or equivalent high school study.

LNW 4905 Special Study in Latin 1-4 Credits
Grading Scheme: Letter Grade
Readings, conferences and reports.
Prerequisite: LAT 1104, LAT 1131, LAT 2200 or the equivalent.

LNW 4911 Undergraduate Research in Latin Language and Literature 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

Lingala | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

LGL 1130 Beginning Lingala 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

LGL 1131 Beginning Lingala 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: LGL 1130 with minimum grade of C, or the equivalent.

LGL 2200 Intermediate Lingala 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: LGL 1131 with minimum grade of C, or the equivalent.

LGL 2201 Intermediate Lingala 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: LGL 2200 with minimum grade of C, or the equivalent.

LGL 3410 Advanced Lingala 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: LGL 2201 with minimum grade of C, or the equivalent.

LGL 3411 Advanced Lingala 2 3 Credits
Grading Scheme: Letter Grade
Continuation advanced study of the four skills with attention to more complex structures.
Prerequisite: LGL 3410 with minimum grade of C, or the equivalent.

Linguistics

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

LIN 2000 Language: Humanities Perspective 3 Credits
Grading Scheme: Letter Grade
Language in use in areas of general interest to the humanities, including language, dialect and accent, language endangerment and language change. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

LIN 2614 Language in the USA 3 Credits
Grading Scheme: Letter Grade
Focuses on linguistic diversity in the US, touching on American dialects, multilingualism in America, Native American languages, and sociolinguistic variation. Dialect analysis tools will be learned and applied in class projects.
Attributes: General Education - Diversity, General Education - Social Science

LIN 2704 Language, Thought and Action: Language as a Cognitive System 3 Credits
Grading Scheme: Letter Grade
Studies language from the perspective of cognitive sciences. (S)
Attributes: General Education - Social Science

LIN 3010 Introduction to Linguistics 3 Credits
Grading Scheme: Letter Grade
Core areas of linguistics research: phonology, morphology, syntax, semantics, sociolinguistics and language acquisition. (H)
Attributes: General Education - Humanities

LIN 3201 The Sounds of Human Language 3 Credits
Grading Scheme: Letter Grade
Emphasizes the sounds employed in languages of the world for a comprehensive understanding of the mechanism underlying the production of speech sounds and the ability to recognize, distinguish and phonetically transcribe speech sounds from an unfamiliar language. Includes investigation of the patterning and functions of sounds in languages of the world and application of the methods of analyzing a language sound system.
Prerequisite: LIN 3010.

LIN 3460 The Structure of Human Language 3 Credits
Grading Scheme: Letter Grade
Investigates word formation processes (morphology) and sentence structure (syntax) in the world's languages. Focuses on vocabulary and tools used to discover and describe patterns in human language. Coursework emphasizes problem solving and working with a wide range of language data. (WR)
Prerequisite: LIN 3010.
Attributes: Satisfies 6000 Words of Writing Requirement

LIN 3677 World Englishes 3 Credits
Grading Scheme: Letter Grade
Investigates history and spread of English; varieties of English spoken around the world as a first, second, or foreign language, their characteristics at various linguistic levels (sounds, morphemes, syntax, lexicon), their use and status in different countries; issues of policy, teaching, and testing; and models categorizing World Englishes.
Prerequisite: LIN 3010.

LIN 3680 Modern English Structure 3 Credits
Grading Scheme: Letter Grade
Studies the grammar of current English from the viewpoint of modern linguistics.
Prerequisite: LIN 3010.

LIN 4205 Fundamentals of Phonetics 3 Credits
Grading Scheme: Letter Grade
Studies phonetics, including anatomy and physiology of the speech production apparatus, transcription and production of some of the world's sounds, basic acoustics, computerized methods for speech analysis, acoustic characteristics of sounds, stress and intonation and basic issues in speech perception. May be taught in conjunction with LIN 6208, Phonetics and Linguists, a graduate course.
Prerequisite: LIN 3010 and LIN 3201.

LIN 4320 Introduction to Phonology 3 Credits
Grading Scheme: Letter Grade
Phonemics, syllabic and prosodic phenomena, neutralization, distinctive features, morphophonemic alternation, phonological systems and processes. Terminology and notational conventions of generative phonology and optimality theory, with problems from a variety of languages. May be taught in conjunction with a graduate course that bears the same title.
Prerequisite: LIN 3010 and LIN 3201.

LIN 4400 Introduction to Morphology 3 Credits
Grading Scheme: Letter Grade
Theory of word structure, derivation and inflection, with examples and problems from a variety of languages. Includes the position of morphology in grammar, the relationship between morphology and grammar, typology, cultural and conceptual categories, and predictions of various theories of morphology. May be taught in conjunction with a graduate class that bears the same title.
Prerequisite: LIN 3010 and LIN 3460.

LIN 4500 Introduction to Syntax 3 Credits
Grading Scheme: Letter Grade
Generative-transformational model of syntax: phrase structure, the lexicon, case and agreement, movement, locality relations and anaphora; emphasizes problem solving and linguistic argumentation. May be taught in conjunction with a graduate course that bears the same title.
Prerequisite: LIN 3010 and LIN 3460.

LIN 4600 Survey of Sociolinguistics 3 Credits
Grading Scheme: Letter Grade
Major approaches to language in context: ethnolinguistic, sociological and linguistic. Applications of socio-linguistics to applied linguistics, social sciences and education. Collection and analysis of data. (N and S)
Prerequisite: LIN 3010.
Attributes: General Education - International, General Education - Social Science

LIN 4656 Gender and Language 3 Credits
Grading Scheme: Letter Grade
Language in the construction of sex and gender roles within a culture. Grammaticalization of gender in languages of the world. Interaction of grammatical structures with gender stereotypes. Consequences of these interactions on grammatical structures. (S and D)
Prerequisite: LIN 3010.
Attributes: General Education - Diversity, General Education - Social Science

LIN 4701 Psycholinguistics 3 Credits
Grading Scheme: Letter Grade
Basic issues in psycholinguistics, including linguistic principles and psychological mechanisms in language production, comprehension, acquisition and development.
Prerequisite: LIN 2704 or LIN 3010 or EXP 3604 or SPA 4004.

LIN 4702C Methods in Psycholinguistics 3 Credits
Grading Scheme: Letter Grade
Provides hands-on experience designing, running and analyzing data from various types of psycholinguistic experiments.
Prerequisite: LIN 4701 and STA 2023, or the equivalent.

LIN 4721 Second Language Acquisition 3 Credits
Grading Scheme: Letter Grade
The neurolinguistic, psycholinguistic and sociolinguistic bases of second language acquisition in childhood and adulthood.
Prerequisite: LIN 3010.

LIN 4784 Writing Systems 3 Credits
Grading Scheme: Letter Grade
Introduces origin and typology of writing systems. Evaluates cognitive claims regarding second language reading acquisition and script type. Considers basic problems in the interface of phonology, script and natural language processing.
Prerequisite: LIN 3010.

LIN 4790 Brain and Language 3 Credits
Grading Scheme: Letter Grade
Introduces critical issues and terminology in brain and language research. Topics include brain imaging techniques, categorization, auditory perception, modularity, connectionism, semantic representation, laterality, innateness and plasticity.
Prerequisite: LIN 3010.

LIN 4803 Introduction to Semantics 3 Credits
Grading Scheme: Letter Grade
Studies truth-conditional semantics as opposed to pragmatics, including basic notions in classical logic, since logic is assumed in truth-conditional semantics.
Prerequisite: LIN 3010.

LIN 4820 Meaning and Use 3 Credits
Grading Scheme: Letter Grade
Introduces pragmatics, the study of utterance meanings determined by situated uses of language and linguistic communication as a social activity. Explores role of linguistic and extra-linguistic contexts in the production and interpretation of utterances. Topics include deictic and anaphoric expressions, sense and reference, presupposition, implicature, speech acts and coherence.
Prerequisite: LIN 3010.

LIN 4850 Formal Semantics 3 Credits
Grading Scheme: Letter Grade
Advanced course on semantics within the Montague approach.
Prerequisite: LIN 4803, PHI 2100 or PHI 3130.

LIN 4905 Individual Study in Linguistics 3 Credits
Grading Scheme: Letter Grade
Individual study for linguistics majors.

LIN 4911 Undergraduate Research in Linguistics 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in linguistics. Projects may involve inquiry, design, investigation, scholarship, discovery or application in linguistics.

LIN 4930 Special Topics in Linguistics 3-9 Credits
Grading Scheme: Letter Grade
Variable content offered by faculty members in their areas of specialization. Some offerings may involve extensive writing while others will deal with quantitative analysis or field methodology. (H and N)
Prerequisite: LIN 3010.
Attributes: General Education - Humanities, General Education - International

LIN 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

LIN 4970 Senior Thesis 3 Credits
Grading Scheme: Letter Grade
Accommodation for senior thesis.

TSL 3360 Introduction to Teaching English as a Second Language 3 Credits
Grading Scheme: Letter Grade
Historical overview of trends in language teaching technology, ranging from communicative approaches to techniques for teaching listening, speaking, reading and writing. Trains students to instruct small groups and individuals in English language skills.

TSL 3378 Pronunciation for Teaching English as a Second Language 3 Credits
Grading Scheme: Letter Grade
Overview of sound system of North American English and its integration with listening, morphology and spelling. Pronunciation pedagogy based on current theory and practice, as well as diagnostic tools and assessment measures.
Prerequisite: LIN 3010.

TSL 4911 Undergraduate Research in Teaching English as a Second Language 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Teaching English as a Second Language. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Teaching English as a Second Language.

TSL 4940 Teaching English as a Second Language Internship 3 Credits
Grading Scheme: Letter Grade
Capstone course available only to undergraduates in TESL certificate program. In cooperation with the English Language Institute, teaching interns observe classes, shadow teachers, review materials and, in teams, create and implement special noncredit short-term courses for English language learners.
Prerequisite: LIN 3010, LIN 3680, LIN 4721, TSL 3360 or TSL 3378.

Management

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Courses

BUL 4310 The Legal Environment of Business 4 Credits
Grading Scheme: Letter Grade
Introduces the legal environment of business and organizations. Emphasizes public and regulatory law and on the social, political and ethical aspects of legal issues in business. Subjects include the nature of law and legal process; administrative law of contracts and torts; business and the constitution; statutory and common law; contracts and torts; business organizations and securities, antitrust, consumer protection and employment law.
Prerequisite: ECO 2023 and sophomore or junior standing.

BUL 4443 Ethics in Global Business 2 Credits
Grading Scheme: Letter Grade
Explores issues involving the role of individuals, citizens, business, and government in promoting profitable but responsible commerce and socially beneficial business activity. (WR)
Attributes: Satisfies 4000 Words of Writing Requirement

BUL 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
Requires written report.
Prerequisite: (BUL 4310 and senior standing) or instructor permission.

BUL 4930 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Variable content provides an opportunity for study in-depth of topics not offered in other courses and of topics of special current significance.
Prerequisite: department permission.

BUL 4956 International Studies in Business Law 1-4 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: admission to an approved study abroad program and department permission.

ENT 3003 Principles of Entrepreneurship 4 Credits
Grading Scheme: Letter Grade
Practical, hands-on understanding of the stages of entrepreneurial process. Focus on the decision-making process within a start-up company.

ENT 3503 Introduction to Social Entrepreneurship 2 Credits
Grading Scheme: Letter Grade
Social entrepreneurship involves using the skills and strategies of business to innovatively and sustainably solve social, environmental, and economic problems. The ventures created by social entrepreneurs can be non-profits, for-profits, or innovative hybrid models. This course aims to educate, inspire, and empower students to become changemakers.

ENT 4015 The Venture Accelerator 2 Credits
Grading Scheme: Letter Grade
A team-based, experiential program focused on the start-up process; includes lectures, readings, discussions, workshops, and a team-based project. As deliverables, each team must deliver weekly lessons-learned presentations, complete business canvas updates, and prepare a final presentation.
Prerequisite: ENT 3003 or EGN 4641.

ENT 4114 New Venture Planning 2 Credits
Grading Scheme: Letter Grade
A study of the key elements of new venture planning to achieve an understanding of the process involved in the evaluation of new venture feasibility and the development of business plans for new venture.

ENT 4614 Creativity and Innovation in the Business Environment 2 Credits
Grading Scheme: Letter Grade
Examination of the creativity process and the organizational environment of several organizations recognized as creative and innovative. Course is organized around class discussions, workshops, projects, both individual and team-based, cases, a field trip and visiting experts. The course is very interactive and is based in experiential learning.
Prerequisite: ENT 3003 or GEB 3113

ENT 4704 International Entrepreneurship 2 Credits
Grading Scheme: Letter Grade
Examination of the key elements of the international entrepreneurial venture. The learning perspective is that of the global entrepreneur - one whose business is born global and who may capitalize upon resources from anywhere.

ENT 4934 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Special topics in entrepreneurship-related fields of study.

ENT 4940 Entrepreneurship Practicum 1 Credit
Grading Scheme: Letter Grade
Provides a forum for completing a portfolio of supervised experiential learning activities related to entrepreneurship and the entrepreneurial mindset. Through these activities, students enhance their mastery of such entrepreneurial competencies as opportunity recognition, opportunity assessment, resource leveraging, bootstrapping, risk mitigation, value innovation, and guerrilla behavior.
Prerequisite: admission to the entrepreneurship minor and senior standing.

MAN 3025 Principles of Management 4 Credits
Grading Scheme: Letter Grade
Fundamentals of management underlying the solution of problems of organization and operation of business enterprises. (S)
Prerequisite: ECO 2013, ECO 2023 or AEB 2014, and sophomore standing.
Attributes: General Education - Social Science

MAN 3240 Organizations: Structure and Behavior 4 Credits
Grading Scheme: Letter Grade
Individual group and organizational issues that affect and shape businesses. Topics include individual differences, motivation, communication, decision making, leadership, power, organizational structure and design and change.
Prerequisite: MAN 3025 with a minimum grade of C; business administration and accounting majors only.

MAN 4301 Human Resource Management 4 Credits
Grading Scheme: Letter Grade
Major human resource management functional areas. Topics include organizational employment planning, employment regulation, job analysis, performance assessment, recruitment and selection, training and development, employee/labor relations and compensation.
Prerequisite: MAN 3025 with a minimum grade of C and MAN 3240.

MAN 4720 Business Policy and Strategy 2 Credits
Grading Scheme: Letter Grade
Integrates prior business courses through study and discussion of real organizational situations, including ethical and global issues, the influence of the external environment and the effect of demographic diversity on organizations.
Prerequisite: completion of junior and senior business core and senior standing; B.A.B.A. students only.

MAN 4723 Strategic Management 4 Credits
Grading Scheme: Letter Grade
Evaluation of the key functions of organizations and integration of these functions to achieve competitive advantages. Topics include strategic formulation, implementation and evaluation.
Prerequisite: MAN 3025 with a minimum grade of C, MAR 3023 and FIN 3403.

MAN 4905 Individual Work in Management 1-5 Credits
Grading Scheme: Letter Grade
Written report is required.
Prerequisite: senior standing and department permission.

MAN 4930 Special Topics 1-4 Credits
Grading Scheme: Letter Grade
Variable content provides an opportunity for study in-depth of topics not offered in other courses and of topics of special current significance.

MAN 4956 International Studies in Management 1-4 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: admission to an approved study abroad program and department permission.

MAN 4970 Honors Thesis 1 Credit
Grading Scheme: S/U
A thesis is required for magna cum laude or summa cum laude designations. To qualify, students normally have completed 90 semester credits of coursework (exceptions may be made) and have at least a 3.6 GPA at the time they enroll. The thesis will be reviewed by at least one faculty member chosen by the honors coordinator from the student's department. (S-U)
Prerequisite: 90 credits earned and 3.6 UF GPA.

Marketing

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Courses

MAR 2290 Retail Management Seminar 1 Credit
Grading Scheme: S/U
Weekly lectures feature a different executive making a presentation in his or her area of expertise. Major issues in retailing are addressed. Discussions of career opportunities and career paths in retailing. (S-U)

MAR 2401 Sales Seminar 1 Credit
Grading Scheme: S/U
Overview of selling and managing the sales function to achieve the growth targets of a business; highlights the importance of the sales function in a firm and how it contributes to the achievement of the firm?s strategic objectives.

MAR 2951 Special Topics 1-3 Credits
Grading Scheme: S/U
Projects related to business in marketing as approved by the college. (S-U)

MAR 3023 Principles of Marketing 4 Credits
Grading Scheme: Letter Grade
Functions, institutions and methods of marketing goods and services. Relates marketing to the larger economic structure and emphasizes the importance of the consumer. (S)
Prerequisite: ECO 2013, ECO 2023 or AEB 2014, and sophomore standing.
Attributes: General Education - Social Science

MAR 3231 Introduction to Retailing Systems and Management 4 Credits
Grading Scheme: Letter Grade
Functions, institutions and activities of retailing goods and services.
Prerequisite: ACG 2021 and MAR 3023.

MAR 3400 Professional Selling 4 Credits
Grading Scheme: Letter Grade
Basic survey in professional selling. Teaches the importance of the selling role and provides basic professional selling skills; begins the preparation for a future role in sales or sales management.
Prerequisite: MAR 3023.

MAR 3503 Consumer Behavior 4 Credits
Grading Scheme: Letter Grade
Emphasizes both descriptive and conceptual analysis of consumer behavior with a focus on theory and research essential to an understanding of individual choice behavior. Makes intensive use of contributions from the social and behavioral science literatures.
Prerequisite: MAR 3023 with a minimum grade of C and STA 2023.

MAR 4156 International Marketing 4 Credits
Grading Scheme: Letter Grade
Analyzes economic, social and cultural issues affecting marketing management in the international environment.
Prerequisite: ACG 2021 and MAR 3023 with minimum grades of C.

MAR 4232 Retail Consulting 4 Credits
Grading Scheme: Letter Grade
Provides opportunities for working on real retail/marketing problems with clients; gain practical insights into actual retail business operations while performing problem identification, exploration for opportunities, data collection and strategy development. Teams of 4-5 students work with real clients on retail issues and design and execute all phases of the project.
Prerequisite: MAR 3023 with a minimum grade of C and instructor permission.

MAR 4403 Sales Management 4 Credits
Grading Scheme: Letter Grade
Principles, methods and problems relating to the management of a sales force. Selection and training, organization, compensation and stimulation, and control.
Prerequisite: ACG 2021 and MAR 3023 with minimum grades of C.

MAR 4613 Marketing Research 4 Credits
Grading Scheme: Letter Grade
Analyzes the role of marketing research in providing information for marketing decisions. Research methods and techniques involved in the development and use of primary and secondary data are emphasized. Topics include survey design, experimental design, data collection (e.g., questionnaires), data analysis, measurement and sampling.
Prerequisite: MAR 3023 with a minimum grade of C and QMB 3250.

MAR 4803 Marketing Management 4 Credits
Grading Scheme: Letter Grade
Development and analysis of overall marketing strategies involving product and brand development, channels of distribution, pricing and promotion with consideration of marketplace conditions and related factors affecting implementation and execution.
Prerequisite: MAR 3023 with a minimum grade of C, MAR 3503 and one other marketing course.

MAR 4804 Marketing Strategy 4 Credits
Grading Scheme: Letter Grade
Emphasizes analysis, planning, and implementation of marketing strategies. Examines insights into the creative processes involved in applying marketing concepts and knowledge to the development and implementation of strategy. Features a comprehensive marketing simulation exercise and well as detailed analysis of several companies and their marketing strategies.
Prerequisite: MAR 3023

MAR 4832 New Product Development and Management 4 Credits
Grading Scheme: Letter Grade
A structured way of thinking about product development. Students are provided with an up-to-date toolbox for developing and managing new products. Includes hands-on individual assignments and a group project to simulate the development process of a new product or service.
Prerequisite: MAR 3023 with a minimum grade of C.

MAR 4905 Independent Study 1-4 Credits
Grading Scheme: Letter Grade
Opportunity for in-depth study not offered in other courses.
Prerequisite: senior standing, previous work in the area of research and department permission.

MAR 4933 Special Topics 4 Credits
Grading Scheme: Letter Grade
Selected rotating topics in marketing management, research and theory.
Prerequisite: department permission.

MAR 4945 Retail Management Internship 1-3 Credits
Grading Scheme: S/U
A 10-12 week entry-level retail management internship that requires several papers and reports. Opportunities are available in stores, corporate headquarters and buying offices. Management training experiences in buying, store management, merchandising and customer service. (S-U)
Prerequisite: MAR 3023 is recommended before registering for this internship.

MAR 4956 International Studies in Marketing 1-4 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: admission to an approved study abroad program and department permission.

MAR 4970 Honors Thesis 1 Credit
Grading Scheme: S/U
A thesis is required for magna cum laude or summa cum laude designation. To qualify, students normally have completed 90 semester credits of coursework (exceptions may be made) and have at least a 3.6 GPA at the time they enroll. The thesis will be reviewed by at least one faculty member chosen by the honors coordinator from the student's department. (S-U)
Prerequisite: 90 credits earned and a 3.6 UF GPA.

Mass Communication

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Courses

JOU 4004 History of Journalism 3 Credits
Grading Scheme: Letter Grade
Origin, development and potentiality of print and broadcast media. Analyzes the evolution of standards, policies, methods and controls.

MMC 1009 Introduction to Media and Communications 1 Credit
Grading Scheme: Letter Grade
Introduces the tools, resources and academic and extra-curricular activities offered by the College of Journalism and Communications. Includes lessons on the history and organization of the college and academic and career preparation.
Prerequisite: 1JM or exploratory major, 2JM, or 3JM classification, or instructor approval.

MMC 2121 Writing Fundamentals for Communicators 3 Credits
Grading Scheme: Letter Grade
One-third of the course is to ensure students have sufficient skill in grammar and punctuation to write with clarity. In two-thirds of the course, students put principles of good writing into practice with short writing assignments that have real-world applications.

MMC 3030 Personal Branding for Communicators 1 Credit
Grading Scheme: Letter Grade
Professional development course that stresses how to communicate and connect as professionals. Emphasizes mastery of writing, speaking, presentation and employment-seeking skills, working with media, handling media interviews and using social media to establish a professional identity.
Prerequisite: 3JM designation.

MMC 3203 Ethics and Problems in Mass Communications 3 Credits
Grading Scheme: Letter Grade
A cross-disciplinary introduction to ethics-relevant situations faced by media professionals. Topics include professional standards of conduct, audience representation and engagement and issues associated with the production, presentation and delivery of messages that reflect the best interests of audiences, clients and stakeholders.
Prerequisite: 2JM designation and ADV 3008, JOU 1001, PUR 3000 or RTV 3001 with minimum grade of C.

MMC 3254 Media Entrepreneurship 1 Credit
Grading Scheme: Letter Grade
Introduces media entrepreneurship with a focus on how digital technologies are transforming industries. Students work in teams to develop new digital media businesses. Develop and pitch ideas, explore market analysis, develop business and financial plans and study social media strategies.
Prerequisite: sophomore standing.

MMC 3420 Consumer and Audience Analytics 3 Credits
Grading Scheme: Letter Grade
Provides practical analytical skill-sets, benefiting those who plan careers in analytics/research, social media, media business, advertising/marketing and public relations.
Prerequisite: Junior standing.

VIC 3001 Sight, Sound and Motion 4 Credits
Grading Scheme: Letter Grade
Visual literacy is a prerequisite for success in most areas of mass communication. Teaches fundamentals of design across print, web and multimedia platforms. Also emphasizes how visual forms convey messages to readers.
Prerequisite: sophomore standing.

Materials Science and Engineering

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

EGN 1935 Special Topics in Freshman Engineering 1-3 Credits
Grading Scheme: Letter Grade
Laboratory, lectures or conferences cover selected topics in engineering.

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGS 1005 Prep for Success 1-4 Credits
Grading Scheme: S/U
Freshman success course that includes academic preparation in calculus, chemistry, student success and technical communications. (S-U)
Prerequisite: EG student.

EGS 1006 Introduction to Engineering 1 Credit
Grading Scheme: Letter Grade
Introduces the 11 departments that offer undergraduate degrees at UF. Students break into groups of 20, rotating weekly through each department. During these visits, students participate in hands-on experiments to help them make informed decisions about career alternatives.

EGS 1670 Engineering Innovations for the 21st Century 2 Credits
Grading Scheme: Letter Grade
Students examine recent patents in engineering in order to learn the latest developments that will be used for components in the future. Students learn to analyze the presentation of a patent to determine usefulness of the patent, to understand the applicability of the courses taken in engineering to the development of the patent and to gain skills in distinguishing well-written patents from poorly written patents.

EMA 1004 Materials Impact on Society 3 Credits
Grading Scheme: Letter Grade
Discovery and development of specific classes of materials are considered from the perspective of having dramatically altered the course of human history and societies. Materials are presented in historical and technical contexts and considered in terms of their political, financial, health and technology impacts.

EMA 3000L Sophomore Materials Laboratory 1 Credit
Grading Scheme: Letter Grade
Conceptual perspective of the origin of materials behavior and the interrelationships of the materials tetrahedron: structure/property/performance/processing. Conduct experiments on the materials tetrahedron.
Corequisite: EMA 3010.

EMA 3010 Materials 3 Credits
Grading Scheme: Letter Grade
Conceptual perspective for origin of materials behavior and the interrelationships of structure/property/performance. Materials selection and use of familiar material (metals, ceramics, polymers, electronic materials and composites) in electronics and structural and other engineering applications.
Prerequisite: CHM 2045.

EMA 3011 Fundamental Principles of Materials 3 Credits
Grading Scheme: Letter Grade
Covers the fundamental principles of structure, reactivity and energies describing materials systems, directly relating individual principles to specific materials properties or functions.
Prerequisite: CHM 2046 or CHM 2096.

EMA 3013C Materials Laboratory 2 2 Credits
Grading Scheme: Letter Grade
General undergraduate materials laboratory. (WR)
Prerequisite: EMA 3080C.
Attributes: Satisfies 2000 Words of Writing Requirement

EMA 3050 Introduction to Inorganic Materials 3 Credits
Grading Scheme: Letter Grade
Uses, structure, processing and properties of inorganic materials, including metals, alloys and ceramics. Scientific principles are introduced through discussion of developed inorganic materials for high technology applications.
Prerequisite: EMA 3010.

EMA 3066 Introduction to Organic Materials 3 Credits
Grading Scheme: Letter Grade
Uses, structure, processing and properties of organic materials, including polymers, biomacromolecules and small molecule organic materials. Scientific principles are introduced through discussion of developed organic materials for high technology applications.
Prerequisite: EMA 3010 and (EMA 3011 or CHM 2200 or CHM 2210).

EMA 3080C Materials Laboratory 1 2 Credits
Grading Scheme: Letter Grade
First part of the general undergraduate materials laboratory. (WR)
Prerequisite: EMA 3010 and EMA 3800.
Attributes: Satisfies 4000 Words of Writing Requirement

EMA 3413 Electronic Properties of Materials 3 Credits
Grading Scheme: Letter Grade
Atomistic and quantum-mechanical description of the electrical, optical, magnetic and thermal properties of materials. Deals with metals, alloys, semiconductors, polymers, dielectrics and amorphous materials with special emphasis given to high technology applications of electronic materials.
Prerequisite: EMA 3010.

EMA 3513C Analysis of the Structure of Materials 4 Credits
Grading Scheme: Letter Grade
Laboratory fundamentals of crystallography, x-ray and electron diffraction, scanning and transmission electron microscopy, surface analysis and microprobe techniques.
Prerequisite: EMA 3010.

EMA 3800 Error Analyses and Optimization Methodologies in Materials Research 3 Credits
Grading Scheme: Letter Grade
Statistical approach for materials research, basic and relevant statistical concepts, error analyses, factorial matrices, reducing the variance, nested designs and sampling plans, mixture designs, optimization technology, response surface method and Taguchi.
Corequisite: EMA 3010.

EMA 4020L Metallurgy Laboratory 1 Credit
Grading Scheme: Letter Grade
Concepts, skills, and techniques required for an understanding of metals and metallurgy processing.
Prerequisite: EMA 3050;
Corequisite: EMA 4120.

EMA 4041L Advanced Ceramics Laboratory 1 1 Credit
Grading Scheme: Letter Grade
Forming, drying, firing and testing of traditional ceramics.
Corequisite: EMA 4645.

EMA 4061 Biomaterials: Structure and Properties 3 Credits
Grading Scheme: Letter Grade
Materials commonly used for biomedical application, such as their properties from a biocompatibility or medical device perspective. In addition, materials interactions with biological systems are examined from the molecular (e.g., protein), cellular, tissue and systemic (whole body) perspective. This is the foundation for the second biomaterials class, which applies these principles toward the application of biomaterials in medical implants, prostheses and devices, along with the regulatory issues associated with biomaterials development.
Corequisite: EMA 3066.

EMA 4061L Biomaterials Laboratory 1 Credit
Grading Scheme: Letter Grade
Hands-on laboratory experience in the processing and characterization of biomaterials for use in medical applications.
Corequisite: EMA 4061.

EMA 4062 Biopolymers: Manufacture, Stability and Biocompatibility 3 Credits
Grading Scheme: Letter Grade
Polymer manufacturing processes and biochemical/biophysical behavior are considered from the perspective of achieving those properties needed for the engineering of polymeric implants and devices. Unique economic, ethical and regulatory issues are also presented.
Prerequisite: EMA 3066.

EMA 4120 Physical Metallurgy 1 3 Credits
Grading Scheme: Letter Grade
In-depth discussion of fundamentals of physical metallurgy and principles of microstructure evolution.
Prerequisite: EMA 3050.

EMA 4121 Interfacial Engineering 3 Credits
Grading Scheme: Letter Grade
Correlation of properties, structural and mechanical history, thermal history and service behavior of various interfaces.
Prerequisite: EMA 3050 and EMA 3066 and EMA 3413.

EMA 4125 Transport Phenomena in Materials Processing 3 Credits
Grading Scheme: Letter Grade
Science and application of momentum, heat and mass transport in materials and materials processing.
Prerequisite: EMA 3010 and MAP 2302.

EMA 4144 Physical Ceramics 1 3 Credits
Grading Scheme: Letter Grade
Structure of complex ceramic compounds and glasses. Influence of structural imperfections and stoichiometry on physical characteristics, surface and interfacial phenomena, diffusion and phase transformations in ceramic systems.
Prerequisite: EMA 3050.

EMA 4145 Physical Ceramics 2 3 Credits
Grading Scheme: Letter Grade
Influence of ceramic microstructure on processing. Chemical bonds, surface phenomena, forming energetics, drying and firing kinetics. Diffusion, nucleation, crystal growth, solid-solid and solid-liquid reactions.
Prerequisite: EMA 3050.

EMA 4161 Physical Properties of Polymers 3 Credits
Grading Scheme: Letter Grade
Molecular structure and the physical property relationships for polymers: viscoelastic behavior, the glass transition, thermomechanical and rheological properties, the crystalline and amorphous molecular solid state. Correlation of properties with design engineering of polymer applications. Laboratory section included.
Prerequisite: EMA 3066 and EMA 3513C.

EMA 4161L Polymers Laboratory 1 Credit
Grading Scheme: Letter Grade
Concepts, skills, and techniques required for an understanding of polmer and polymer composite processing.
Corequisite: EMA 4161.

EMA 4223 Mechanical Behavior of Materials 3 Credits
Grading Scheme: Letter Grade
Plastic deformation and fracture of metals and alloys, ceramics and polymers.
Prerequisite: EGM 3520.

EMA 4224 Physical Metallurgy 2 3 Credits
Grading Scheme: Letter Grade
In-depth discussion of fundamentals of alloy design, mechanical properties and failure mechanisms.
Prerequisite: EMA 4120 and EMA 4223.

EMA 4314 Energetics and Kinetics in Materials Science 3 Credits
Grading Scheme: Letter Grade
Foundations of energetics and kinetic theory with applications to processes in materials science.
Prerequisite: EMA 3010.

EMA 4324 Stability of Materials 3 Credits
Grading Scheme: Letter Grade
Mechanisms, energetics and kinetics of corrosion and degradation of engineering materials. Economic solutions to degradation problems based upon design and materials selection.
Prerequisite: EMA 4314.

EMA 4414L Electronic Materials Laboratory 1 Credit
Grading Scheme: Letter Grade
Hands-on experience for those specializing in electronic materials. Laboratory topics include characterization of optical and electronic properties of semiconductor materials, electronic devices characterization and semiconductor processing.
Corequisite: EMA 4614.

EMA 4462 Polymer Characterization 3 Credits
Grading Scheme: Letter Grade
Use of a broad variety of spectroscopic and other scattering phenomena in polymer research.
Prerequisite: EMA 3066 or equivalent.

EMA 4614 Production of Electronic Materials 3 Credits
Grading Scheme: Letter Grade
Production of materials for use in solid state electronic devices; nucleation and growth kinetics, solidification of single phase alloys, segregation, dynamics of crystal growth, selection of materials and growth techniques, characterization.
Prerequisite: EMA 3413.

EMA 4615 Compound Semiconductor Materials 3 Credits
Grading Scheme: Letter Grade
Physical properties of technologically important compound semiconductor materials. Epitaxial growth and practical application of compound semiconductor heterostructures.
Prerequisite: EEE 3396C.

EMA 4623 Process Metallurgy 3 Credits
Grading Scheme: Letter Grade
Engineering aspects of mineral processing, including unit operations and flow sheets. Science and technology of metal extraction with applications to specific ferrous and non-ferrous metals.
Corequisite: EMA 4120.

EMA 4645 Processing of Ceramic Materials 3 Credits
Grading Scheme: Letter Grade
Introduces the technology and science of processing ceramic materials, including traditional clay-based ceramics, modern technical ceramics and glasses. Topics include the nature of fine particles, forming methods and consolidation by heat.
Prerequisite: EMA 3050.

EMA 4666 Polymer Processing 3 Credits
Grading Scheme: Letter Grade
Major processing methods for polymers and polymeric composites as related to the rheological behavior of these systems. Synthesis of polymers via industrial processes.
Prerequisite: EMA 3066.

EMA 4714 Materials Selection and Failure Analysis 3 Credits
Grading Scheme: Letter Grade
Philosophy and practice of engineering selection of materials. Case studies in product liability and failure analysis.
Prerequisite: EMA 4223 and EMA 4324.

EMA 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
Selected problems or projects in the student's major field of engineering study.

EMA 4913 Research in Materials Science and Engineering 1 1 Credit
Grading Scheme: Letter Grade
Short research problems in materials science and engineering, usually including a final thesis.

EMA 4914 Research in Materials Science and Engineering 2 3 Credits
Grading Scheme: Letter Grade
Continuation of EMA 4913: short research problems in materials science and engineering, usually including a final thesis.

EMA 4915 Integrated Product and Process Design Program 1 3 Credits
Grading Scheme: Letter Grade
First part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.

EMA 4916 Integrated Product and Process Design Program 2 3 Credits
Grading Scheme: Letter Grade
Second part of the integrated product and process design sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget.

EMA 4935 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Laboratory, lectures or conferences covering selected topics in materials science and engineering.

EMA 4949 Co-Op Work Experience 1 Credit
Grading Scheme: S/U
Practical engineering work under industrial supervision, as set forth in the Herbert Wertheim College of Engineering regulations. (S-U)
Prerequisite: one-term industrial employment, including extra work according to a pre-approved outline.

Mathematics

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

About Precalculus and Calculus

A student can receive, at most:

- Four credits for MAC 1147 and MAC 1140
- Four credits for MAC 1147 and MAC 1114
- Five credits for MAC 1140 and MAC 1114
- Five credits for MAC 1147, MAC 1140, and MAC 1114
- If both MAC 2233 and MAC 2311 (or MAC 3472) are taken, credit will be given only for MAC 2311 (or MAC 3472).

Courses

MAA 4102 Introduction to Advanced Calculus for Engineers and Physical Scientists 1 3 Credits
Grading Scheme: Letter Grade
Theory of real numbers, functions of one variable, sequences, limits, continuity and differentiation; continuity and differentiability of functions of several variables. MAA 4102 is not recommended for those who plan to do graduate work in mathematics; these students should take MAA 4211. Credit will be given for, at most, one of MAA 4102, MAA 4211 and MAA 5104.
Prerequisite: MAC 2313 or MAC 3474, and MAS 4105 or MAS 3114, both with minimum grades of C.

MAA 4103 Introduction to Advanced Calculus for Engineers and Physical Scientists 2 3 Credits
Grading Scheme: Letter Grade
Continues the advanced calculus for engineers and physical scientists sequence. Theory of integration, transcendental functions and infinite series. MAA 4102 is not recommended for those who plan to do graduate work in mathematics; these students should take MAA 4212. Credit will be given for, at most, one of MAA 4103, MAA 4212 and MAA 5105.
Prerequisite: MAA 4102 with minimum grade of C.

MAA 4211 Advanced Calculus 1 3 Credits
Grading Scheme: Letter Grade
Advanced treatment of limits, differentiation, integration and series. Includes calculus of functions of several variables. Credit will be given for, at most, one of MAA 4211, MAA 4102 and MAA 5104.
Prerequisite: MAS 4105 with minimum grade of C.

MAA 4212 Advanced Calculus 2 3 Credits
Grading Scheme: Letter Grade
Continues the advanced calculus sequence in limits, differentiation, integration and series. Credit will be given for, at most, one of MAA 4212, MAA 4103 and MAA 5105.
Prerequisite: MAA 4211 with minimum grade of C, taken the previous semester.

MAA 4226 Introduction to Modern Analysis 1 3 Credits
Grading Scheme: Letter Grade
Topology of metric spaces, numerical sequences and series, continuity, differentiation, the Riemann-Stieltjes integral, sequences and series of functions, the Stone-Weierstrass theorem, functions of several variables, Stokes' theorem and the Lebesgue theory. Credit will be given for, at most, MAA 4226 or MAA 5228.
Prerequisite: MAA 4212 with minimum grade of C.

MAA 4227 Introduction to Modern Analysis 2 3 Credits
Grading Scheme: Letter Grade
Continues the modern analysis sequence discussing the topology of metric spaces, numerical sequences and series, continuity, differentiation, the Riemann-Stieltjes integral, sequences and series of functions, the Stone-Weierstrass theorem, functions of several variables, Stokes' theorem and the Lebesgue theory. Credit will be given for, at most, MAA 4227 or MAA 5229.
Prerequisite: MAA 4226 with minimum grade of C, taken the previous semester.

MAA 4402 Functions of a Complex Variable 3 Credits
Grading Scheme: Letter Grade
Complex numbers, analytic functions, Cauchy-Riemann equations, harmonic functions, elementary functions, integration, Cauchy-Goursat theorem, Cauchy integral formula, infinite series, residues and poles, conformal mapping. Credit will be given for, at most, MAA 4402 or MAA 5404.
Prerequisite: MAC 2313 or MAC 3474, and MAP 2302, both with minimum grades of C.

MAC 1105 Basic College Algebra 3 Credits
Grading Scheme: Letter Grade
Online entry-level algebra course for college students. (M)
Prerequisite: completion of the ALEKS placement exam.
Attributes: General Education - Mathematics

MAC 1114 Trigonometry 2 Credits
Grading Scheme: Letter Grade
Exponential and logarithmic functions, trigonometry and analytic and additional applications of trigonometry. (M)
Attributes: General Education - Mathematics

MAC 1140 Precalculus Algebra 3 Credits
Grading Scheme: Letter Grade
College algebra, functions, coordinate geometry, exponential and logarithmic functions. (M)
Prerequisite: completion of the ALEKS placement exam.
Attributes: General Education - Mathematics

MAC 1147 Precalculus Algebra and Trigonometry 4 Credits
Grading Scheme: Letter Grade
College algebra, functions, coordinate geometry, exponential and logarithmic functions, and trigonometry. Fast-paced review of algebra and trigonometry to prepare for calculus. Assumes prior knowledge of intermediate algebra (Algebra 2) and trigonometry. (M)
Prerequisite: at least 50% on the ALEKS placement exam.
Attributes: General Education - Mathematics

MAC 2233 Survey of Calculus 1 3 Credits
Grading Scheme: Letter Grade
Geometric and heuristic approach to calculus; differentiation and integration of simple algebraic and exponential functions; applications to graphing, marginal analysis, optimization, areas and volumes. (M)
Prerequisite: Any of the following: minimal acceptable score on the online mathematics placement exam; a minimum grade of C in a MAC course numbered 1140 or higher; AP credit for MAC 2311; IB credit for a MAC course numbered 1140 or higher. Any course grades, AP or IB scores used to meet this prerequisite must be on file at UF by registration.
Attributes: General Education - Mathematics

MAC 2234 Survey of Calculus 2 3 Credits
Grading Scheme: Letter Grade
Sequences, geometric and Taylor series; systems of linear equations, Gaussian elimination, matrices, determinants and vectors; partial differentiation, multiple integrals; applications to marginal analysis, least-squares and Lagrange multipliers. (M)
Prerequisite: MAC 2233 with minimum grade of C, or the equivalent.
Attributes: General Education - Mathematics

MAC 2311 Analytic Geometry and Calculus 1 4 Credits
Grading Scheme: Letter Grade
Introduces analytic geometry; limits; continuity; differentiation of algebraic, trigonometric, exponential and logarithmic functions; applications of the derivative; inverse trigonometric functions; differentials; introduction to integration; and the fundamental theorem of calculus. (M) Credit will be given for, at most, one of MAC 2233, MAC 2311 and MAC 3472.
Prerequisite: Any of the following: minimal acceptable score on the online mathematics placement exam; a grade of C in a MAC course numbered 1147 or higher; AP credit for MAC 2311; IB credit for a MAC course numbered 1147 or higher. Any course grades, AP or IB scores used to meet this prerequisite must be on file at UF by registration.
Attributes: General Education - Mathematics

MAC 2312 Analytic Geometry and Calculus 2 4 Credits
Grading Scheme: Letter Grade
Techniques of integration; applications of integration; differentiation and integration of inverse trigonometric, exponential and logarithmic functions; sequences and series. (M) Credit will be given for, at most, one of MAC 2312, MAC 2512 and MAC 3473.
Prerequisite: MAC 2311 or MAC 3472 with a minimum grade of C.
Attributes: General Education - Mathematics

MAC 2313 Analytic Geometry and Calculus 3 4 Credits
Grading Scheme: Letter Grade
Solid analytic geometry, vectors, partial derivatives and multiple integrals. (M) Credit will be given for, at most, MAC 2313 or MAC 3474.
Prerequisite: MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C.
Attributes: General Education - Mathematics

MAC 2512 Calculus 2 for Advanced Placement Students 4 Credits
Grading Scheme: Letter Grade
For entering freshmen who have Advanced Placement Calculus AB credit for MAC 2311. MAC 2512 covers those topics in MAC 2311 and MAC 2312, which is not included or only partially covered in the AP Calculus AB curriculum. Some topics from the AP curriculum are reviewed briefly in the first part of the semester. The combination of AP Calculus AB and MAC 2512 has the same content as the MAC 2311/2312 sequence. Calculus 2 topics to which the student has been exposed in AP Calculus AB are covered more quickly in MAC 2512 than in MAC 2312. (M) Credit will be given for, at most, one of MAC 2312, MAC 2512 and MAC 3473.
Prerequisite: AP credit for MAC 2311.
Attributes: General Education - Mathematics

MAC 3472 Honors Calculus 1 4 Credits
Grading Scheme: Letter Grade
Topics covered in the MAC 3472/MAC 3473/MAC 3474 sequence closely parallel those covered in MAC 2311/MAC 2312/MAC 2313, but are treated in greater depth. Credit will be given for, at most, MAC 2311 or MAC 3472. (M)
Prerequisite: strong background in precalculus.
Attributes: General Education - Mathematics

MAC 3473 Honors Calculus 2 4 Credits
Grading Scheme: Letter Grade
Continues the honors calculus sequence. (M) Credit will be given for, at most, one of MAC 2312, MAC 2512 and MAC 3473.
Prerequisite: MAC 3472 or MAC 2311 with a minimum grade of C.
Attributes: General Education - Mathematics

MAC 3474 Honors Calculus 3 4 Credits
Grading Scheme: Letter Grade
Continues the honors calculus sequence. (M) Credit will be given for, at most, MAC 2313 or MAC 3474.
Prerequisite: MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C.
Attributes: General Education - Mathematics

MAD 3107 Discrete Mathematics 3 Credits
Grading Scheme: Letter Grade
Logic, sets, functions; algorithms and complexity; integers and algorithms; mathematical reasoning and induction; counting principles; permutations and combinations; discrete probability. Advanced counting techniques and inclusion-exclusion.
Prerequisite: MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C.

MAD 4203 Introduction to Combinatorics 1 3 Credits
Grading Scheme: Letter Grade
Permutations and combinations, binomial coefficients, inclusion-exclusion, recurrence relations, Fibonacci sequences, generating functions and graph theory.
Prerequisite: MAC 2312 or MAC 2512 or MAC 3473, and MAS 3300 or MHF 3202, both with minimum grades of C.

MAD 4204 Introduction to Combinatorics 2 3 Credits
Grading Scheme: Letter Grade
Matching theory, block designs, finite projective planes and error-correcting codes. Does not require MAD 4203.
Prerequisite: MAC 2312 or MAC 2512 or MAC 3473, and MAS 3300 or MHF 3202, both with minimum grades of C.

MAD 4401 Introduction to Numerical Analysis 3 Credits
Grading Scheme: Letter Grade
Numerical integration, nonlinear equations, linear and nonlinear systems of equations, differential equations and interpolation.
Prerequisite: MAS 3114 or MAS 4105 with a minimum grade of C and experience with a scientific programming language.

MAE 3811 Mathematics for Elementary School Teachers 2 3 Credits
Grading Scheme: Letter Grade
Properties of and operations with rational numbers; ratio; proportion; percentages; an introduction to real numbers; elementary algebra; informal geometry and measurement; and introduces probability and descriptive statistics.
Prerequisite: College of Education majors only.

MAP 2302 Elementary Differential Equations 3 Credits
Grading Scheme: Letter Grade
First-order ordinary differential equations, theory of linear ordinary differential equations, solution of linear ordinary differential equations with constant coefficients, the Laplace transform and its application to solving linear ordinary differential equations. (M)
Prerequisite: MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C.
Attributes: General Education - Mathematics

MAP 2483 Mathematical Methods for Natural Sciences 4 Credits
Grading Scheme: Letter Grade
Introduces basic mathematical methods and computer modeling used in the natural sciences, including data representation and analysis, basic statistics and probability, linear algebra, stochastic and deterministic processes and optimization. Theoretical concepts are integrated with real-life applications and computer modeling projects.
Prerequisite: MAC 2311.

MAP 4102 Probability Theory and Stochastic Processes 2 3 Credits
Grading Scheme: Letter Grade
Random walks and Poisson processes, martingales, Markov chains, Brownian motion, stochastic integrals and Ito's formula.
Prerequisite: STA 4321 with a minimum grade of C.

MAP 4305 Differential Equations for Engineers and Physical Scientists 3 Credits
Grading Scheme: Letter Grade
The second course in differential equations. Topics include systems of linear differential equations, stability theory and phase plane analysis, power series solutions of differential equations, Sturm-Liouville boundary-value problems and special functions. Credit will be given for, at most, MAP 4305 or MAP 5304.
Prerequisite: MAP 2302, and MAS 3114 or MAS 4105 or EGM 3344, both with minimum grades of C.

MAP 4341 Elements of Partial Differential Equations 3 Credits
Grading Scheme: Letter Grade
Introduces second-order linear partial differential equations (heat, wave and Laplace equations), separation of variables in PDEs, Sturm-Liouville eigenvalue problems, method of eigenfunction expansions (Fourier analysis) and Green's functions. Possible introduction to first-order PDEs and the method of characteristics. Credit will be given for, at most, MAP 4341 or MAP 5345.
Prerequisite: MAP 2302 and MAP 4305 with minimum grades of C.

MAP 4413 Fourier Analysis 3 Credits
Grading Scheme: Letter Grade
Introduces linear systems and transforms; Laplace, Fourier and Z transforms and their mutual relationship; convolutions. Operational calculus; computational methods including the fast Fourier transform; second-order stationary processes and their autocorrelation functions; and problems of interpolation, extrapolation, filtering and smoothing of second-order stationary processes.
Prerequisite: MAC 2313 or MAC 3474, and MAP 2302, and MAS 3114 or MAS 4105, all three with minimum grades of C.

MAP 4484 Modeling in Mathematical Biology 3 Credits
Grading Scheme: Letter Grade
Mathematical models of biological systems. Topics include models of growth, predator-prey populations, competition, the chemostat, epidemics, excitable systems and analytical tools such as linearization, phase-plane analysis, Poincare-Bendixson theory, Lyapunov functions and bifurcation analysis.
Prerequisite: MAP 2302, and MAS 3114 or MAS 4105, both with minimum grades of C.

MAS 3114 Computational Linear Algebra 3 Credits
Grading Scheme: Letter Grade
Linear equations, matrices and determinants. Vector spaces and linear transformations. Inner products and eigenvalues. Emphasizes computational aspects of linear algebra.
Prerequisite: MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C and experience with a scientific programming language.

MAS 3300 Numbers and Polynomials 3 Credits
Grading Scheme: Letter Grade
Emphasizes theorems and proofs. Topics include algebraic and order properties of the real numbers; introduction to number theory; rational numbers and their decimal expansions; uncountability of the real numbers; complex numbers, irreducible polynomials over the integral, rational, real and complex numbers; and elementary theory of equations. Taking one, but not both, of MAS 3300 or MHF 3202 is required of mathematics majors. MAS 3300 is also particularly useful for prospective secondary-school mathematics teachers. (M)
Prerequisite: a UF math course at the 2000 level or above with a minimum grade of C; this requirement is waived for transfer students with junior standing.
Attributes: General Education - Mathematics

MAS 4105 Linear Algebra 1 4 Credits
Grading Scheme: Letter Grade
Linear equations, matrices, vector spaces, linear transformations, determinants, eigenvalues and inner-product spaces. Includes both theory and computational skills. Develops the ability to reason through, and coherently write, proofs of theorems. For math majors, this course serves as a transition from a study of techniques into more conceptual math; for engineering and science majors, it serves also as a coherent foundation in linear algebra.
Prerequisite: MAC 2313 or MAC 3474, and MAS 3300 or MHF 3202, both with minimum grades of C.

MAS 4124 Introduction to Numerical Linear Algebra 3 Credits
Grading Scheme: Letter Grade
Topics in linear algebra most useful in applications with emphasis on the numerical methods involved: direct and iterative solutions to systems of linear equations; matrix norms; Householder transformations; singular value decomposition; least squares and the generalized inverse; QR method for computing eigenvalues; condition number of linear systems and eigensystems.
Prerequisite: MAS 3114 or MAS 4105 with a minimum grade of C and experience with a scientific programming language.

MAS 4203 Introduction to Number Theory 3 Credits
Grading Scheme: Letter Grade
Introduces elementary number theory and its applications to computer science and cryptology. Divisibility, primes, Euclidean Algorithm, congruences, Chinese Remainder Theorem, Euler-Fermat Theorem and primitive roots. Selected applications to decimal fractions, continued fractions, computer file storage and hashing functions, and public-key cryptography.
Prerequisite: MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C; MAS 3300 recommended.

MAS 4301 Abstract Algebra 1 3 Credits
Grading Scheme: Letter Grade
Sets and mappings, groups and subgroups, homomorphisms and isomorphisms, permutations, rings and domains, arithmetic properties of domains, and fields. Requires facility in writing proofs.
Prerequisite: MAS 3300 or MHF 3202 with a minimum grade of B, or MAS 4105 with a minimum grade of C.

MAT 3503 Functions and Modeling 3 Credits
Grading Scheme: Letter Grade
Group activities strengthen knowledge of secondary mathematics, especially topics from precalculus and the transition to calculus, including contexts that can be modeled using linear, exponential, polynomial or trigonometric functions. Topics include conic sections, parametric equations and polar equations. Explorations involve multiple representations, transformations and data analysis techniques, and are facilitated by various technologies.
Prerequisite: MAC 2311 and UFTeach Step 1.
Corequisite: MAC 2312.

MAT 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Special topics not obtainable in regular course offerings.
Prerequisite: MAC 2313 or MAC 3474 with a minimum grade of C and undergraduate coordinator permission.

MAT 4911 Undergraduate Research in Mathematics 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in mathematics. Projects may involve inquiry, design, investigation, scholarship, discovery or application in mathematics.

MAT 4930 Special Topics in Mathematics 1-3 Credits
Grading Scheme: Letter Grade
Qualified undergraduates take part in seminars or classes on special topics.
Prerequisite: undergraduate coordinator permission.

MAT 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

MGF 1106 Mathematics for Liberal Arts Majors 1 3 Credits
Grading Scheme: Letter Grade
For non-science and non-business majors who need to fulfill the writing and general education math requirements. Includes an introduction to set theory, logic, number theory, probability, statistics, graphing and linear programming. (M)
Attributes: General Education - Mathematics

MGF 1107 Mathematics for Liberal Arts Majors 2 3 Credits
Grading Scheme: Letter Grade
General-education course that demonstrates the beauty and utility of mathematics. Topics include financial management, linear and exponential growth, mathematics in the arts and discrete mathematics. Does not require MGF 1106. (M)
Attributes: General Education - Mathematics

MHF 3202 Sets and Logic 3 Credits
Grading Scheme: Letter Grade
Examples of sets, operations on sets, set algebra, Venn diagrams, truth tables, tautologies, applications to mathematical arguments and mathematical induction. Taking one, but not both, of MAS 3300 or MHF 3202 is required of mathematics majors. MHF 3202 can also be very useful for prospective and in-service secondary and middle school teachers. (M)
Prerequisite: a UF math course at the 2000 level or above with a minimum grade of C.
Attributes: General Education - Mathematics

MHF 4102 Elements of Set Theory 3 Credits
Grading Scheme: Letter Grade
Basic axioms and concepts of set theory. Students present proofs. Credit will be given for, at most, MHF 4102 or MHF 5107.
Prerequisite: MAS 4105 with a minimum grade of C.

MHF 4203 Foundations of Mathematics 3 Credits
Grading Scheme: Letter Grade
Models and proofs. Foundations of real and natural numbers, algorithms, Turing machines, undecidability and independence. Examples and applications in algebra, analysis, geometry and topology. Credit will be given for, at most, MHF 4203 or MHF 5207.
Prerequisite: MAS 4105 with a minimum grade of C.

MTG 3212 Geometry 3 Credits
Grading Scheme: Letter Grade
Axiomatic treatment of topics in Euclidean, non-Euclidean, projective geometry and (time permitting) fractal geometry. Particularly useful for prospective secondary-school mathematics teachers.
Prerequisite: MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C.

MTG 3214 Euclidean Geometry 3 Credits
Grading Scheme: Letter Grade
Axiomatic structure of Euclidean geometry: congruence, parallelism, area, similarity, circles, polygons, medians, constructions, solid geometry, spherical and hyperbolic geometry. Particularly useful for prospective secondary-school mathematics teachers.
Prerequisite: MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C.

MTG 4302 Elements of Topology 1 3 Credits
Grading Scheme: Letter Grade
Basic concepts of general topology. Credit will be given for, at most, MTG 4302 or MTG 5316.
Prerequisite: MAS 4105 with a minimum grade of C.

MTG 4303 Elements of Topology 2 3 Credits
Grading Scheme: Letter Grade
Continues the basic concepts of general topology. Credit will be given for, at most, MTG 4303 or MTG 5317.
Prerequisite: MTG 4302 with a minimum grade of C.

Mechanical and Aerospace Engineering

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

The prerequisites for all courses offered by the Department of Mechanical and Aerospace Engineering may require classification as a student in good standing in aerospace engineering, mechanical engineering, and/or another engineering program for which the particular course is required.

Courses

EAS 2011 Introduction to Aerospace Engineering 3 Credits
Grading Scheme: Letter Grade
Overview of aerospace engineering. Standard atmosphere, basic aerodynamics, airplane performance, stability and control, propulsion, and space flight.
Prerequisite: PHY 2048 or PHY 2060, with minimum grade of C.

EAS 3020C Introduction to Flight 3 Credits
Grading Scheme: Letter Grade
Introduction to the science and engineering of aircraft. Overview of applied aerodynamics, performance, stability, propulsion and structures. Includes lab sessions flying and making measurements in a general aviation aircraft.
Prerequisite: (PHY 2048 or PHY 2053) and MAC 2311; or instructor permission.

EAS 4101 Aerodynamics 3 Credits
Grading Scheme: Letter Grade
Incompressible aerodynamics, integral and differential governing equations, potential flow, boundary layers, airfoils, wings, numerical techniques.
Prerequisite: (EAS 2011 or EAS 3020C or EGN 3353C) and COP 2271 and EML 3100 and MAC 2313 and MAP 2302 with minimum grades of C.

EAS 4132 Compressible Flow 3 Credits
Grading Scheme: Letter Grade
One-dimensional and quasi one-dimensional compressible fluid flows. Includes mach waves, normal shocks, oblique shocks, Prandtl-Meyer expansions, isentropic flow with area change, Fanno flow and Rayleigh flow.
Prerequisite: EAS 4101 or EGN 3353C

EAS 4200 Aerospace Structures 3 Credits
Grading Scheme: Letter Grade
Review of plane states of stress and strain. Includes analysis of thin-walled beams with open and closed section, unsymmetrical bending of wing sections, torsion of skin-stringer and multi-cell sections, flexural shear in open and closed sections, Shear Center and failure criteria. Also includes introduction to composite materials and demonstration of behavior of some simple structural elements.
Prerequisite: EGM 3520 with minimum grade of C.

EAS 4240 Aerospace Composites 3 Credits
Grading Scheme: Letter Grade
Various types and applications of structural composites used in flight structures. Also includes an introduction to analysis of structural composites.
Prerequisite: EGM 3520 with minimum grade of C .

EAS 4300 Aerospace Propulsion 3 Credits
Grading Scheme: Letter Grade
Basics of air-breathing and rocket engines used in flight systems.
Prerequisite: EAS 4101

EAS 4400 Stability and Control of Aircraft 3 Credits
Grading Scheme: Letter Grade
Static stability and control, equations of motion, stability derivatives, stability of longitudinal and lateral motion of aircraft.
Prerequisite: EAS 4101 and EML 4312.

EAS 4412 Dynamics and Control of Space Vehicles 3 Credits
Grading Scheme: Letter Grade
Review of aerospace applications in current guidance and control systems. Includes synthesis of open and closed loop guidance and control systems using classical and modern control theory.
Prerequisite: EGM 4313 or MAP 4305 or MAP 5304

EAS 4510 Astrodynamics 3 Credits
Grading Scheme: Letter Grade
Introduces the solar system. Includes study of two-body motion, Hohmann transfer, patched conics for interplanetary and lunar trajectories, and the restricted three-body problem. Also includes an introduction to powered flights and artificial satellite orbits.
Prerequisite: EGM 3401 with minimum grade of C and (EGM 4313 or MAP 4305 or MAP 5304).

EAS 4530 Space Systems Design 3 Credits
Grading Scheme: Letter Grade
A discussion of the component systems of a spacecraft and a typical mission's requirements. The operation and character of different spacecraft hardware is presented as well as typical mission timelines from early conception to final operations. Topics include the space environment, guidance/control/navigation systems, spacecraft sensors and actuators, propulsion systems, thermal systems, power systems, launch systems, communication systems, structural systems and mission operations. This course is useful to engineers, scientists, computer scientists and any profession that uses data.
Prerequisite: EAS 4510.

EAS 4700 Aerospace Design 1 3 Credits
Grading Scheme: Letter Grade
Applications of the principles of analysis and design to aerospace vehicles. Emphasizes astronautics.
Prerequisite: EAS 4510 and EML 4312.

EAS 4710 Aerospace Design 2 3 Credits
Grading Scheme: Letter Grade
Applications of the principles of analysis and design to aerospace vehicles. Emphasizes aeronautics.
Prerequisite: EAS 4101 and EAS 4400.

EAS 4810C Aerospace Sciences Lab and Design 3 Credits
Grading Scheme: Letter Grade
Experimental investigations of aerospace engineering systems. Wind tunnel testing. Design project with experimental validation.
Prerequisite: EAS 4101 and EML 3301C.

EAS 4905 Individual Study in Aerospace Engineering 1-4 Credits
Grading Scheme: Letter Grade
Selected problems or projects in the student's major field of engineering study.
Prerequisite: department chair recommendation.

EAS 4912 Integrated Product and Process Design 1 3 Credits
Grading Scheme: Letter Grade
The first of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.
Prerequisite: EAS 4101 and EGM 3520 and EML 3301C.

EAS 4913 Integrated Product and Process Design 2 3 Credits
Grading Scheme: Letter Grade
The second part of the integrated design sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget.
Prerequisite: EAS 4912.

EAS 4939 Special Topics in Aerospace Engineering 1-4 Credits
Grading Scheme: Letter Grade
Special topics in aerospace engineering.
Prerequisite: instructor permission.

EAS 4949 Co-op Work Experience 1 Credit
Grading Scheme: S/U
Practical engineering work under industrial supervision, as set forth in the college regulations.
Prerequisite: Engineering major of sophomore standing or higher.

EGM 2511 Engineering Mechanics: Statics 3 Credits
Grading Scheme: Letter Grade
Reduction of force systems, equilibrium of particles and rigid bodies, vector methods and their application to structures and mechanisms.
Prerequisite: PHY 2048;
Corequisite: MAC 2313.

EGM 3344 Introduction to Numerical Methods of Engineering Analysis 3 Credits
Grading Scheme: Letter Grade
Methods for numerical solution of mathematical problems with emphasis on engineering applications using MATLAB. Includes roots, optimization, linear algebraic equations, matrices, curve fitting, differentiation, integration and ordinary differential equations.
Prerequisite: MAC 2313 and COP 2271;
Corequisite: MAP 2302.

EGM 3401 Engineering Mechanics: Dynamics 3 Credits
Grading Scheme: Letter Grade
Continues the dynamics sequence begun in EGM 3400 plus extended coverage of three-dimensional rigid-body dynamics and orbital motion.
Prerequisite: EGM 2511 or EGM 2500, and MAC 2313.

EGM 3520 Mechanics of Materials 3 Credits
Grading Scheme: Letter Grade
Stress and strain at a point, stress-strain-temperature relations and mechanical properties of materials. Systems subject to axial load, torsion and bending. Design concepts, indeterminate structures and applications.
Prerequisite: EGM 2511 and MAC 2313.

EGM 4313 Intermediate Engineering Analysis 3 Credits
Grading Scheme: Letter Grade
Ordinary differential equations, systems of ordinary differential equations, partial differential equations, Fourier series and complex analysis. Also includes equations of heat conduction, wave propagation and Laplace.
Prerequisite: MAP 2302 and EGM 3344.

EGM 4590 Biodynamics 3 Credits
Grading Scheme: Letter Grade
Dynamic analysis of the human musculoskeletal system. Includes development of lumped mass, planar rigid body and 3-D rigid body models of human movement. Also includes calculation of internal forces in muscles and joints and analysis of muscle function using dynamics principles and musculoskeletal geometry.
Prerequisite: EGM 3400 or EGM 3401, or instructor permission.

EGM 4592 Bio-Solid Mechanics 3 Credits
Grading Scheme: Letter Grade
Introduction to solid and fluid mechanics of biological systems. Includes rheological behavior of materials subjected to static and dynamic loading, the mechanics of cardiovascular, pulmonary and renal systems, and the mathematical models and analytical techniques used in biosciences.
Prerequisite: EGM 3520.

EGM 4853 Bio-Fluid Mechanics and Bio-Heat Transfer 3 Credits
Grading Scheme: Letter Grade
A study of biothermal fluid sciences with an emphasis on the physiological processes occurring in human blood circulation and the underlying mechanisms from an engineering prospective.
Prerequisite: EGN 3353C.

EGN 3353C Fluid Mechanics 3 Credits
Grading Scheme: Letter Grade
Statics and dynamics of incompressible fluids. Application to viscous and inviscid flows. Dimensional analysis. Compressible flow.
Prerequisite: MAC 2313 with a minimum grade of C and EGM 2511 and (EML 3100 or EML 3007 or BME 3060).

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGS 1005 Prep for Success 1-4 Credits
Grading Scheme: S/U
Freshman success course that includes academic preparation in calculus, chemistry, student success and technical communications. (S-U)
Prerequisite: EG student.

EML 2023 Computer Aided Graphics and Design 3 Credits
Grading Scheme: Letter Grade
Sketching, descriptive geometry, computer graphics, computer aided drafting and design projects.

EML 2322L Design and Manufacturing Laboratory 2 Credits
Grading Scheme: Letter Grade
Study and application of design, problem formulation, conceptual design, prototype development. Study of common manufacturing processes.
Prerequisite: EML 2023 and ENC 3246 and (Aerospace Engineering or Mechanical Engineering major).

EML 2920 Department and Professional Orientation 1 Credit
Grading Scheme: Letter Grade
Principles of mechanical and aerospace engineering practice, professional standards, engineering ethics.

EML 3005 Mechanical Engineering Design 1 3 Credits
Grading Scheme: Letter Grade
Design process, kinematics, gear trains, and standard mechanical components.
Prerequisite: COP 2271 and EML 2322L and EGM 3520 with minimum grades of C.

EML 3100 Thermodynamics 3 Credits
Grading Scheme: Letter Grade
Application of the first and second laws of thermodynamics to closed and open systems and to cyclic heat engines. Includes the development of procedures for calculating the properties of multiphase and singlephase pure substances.
Prerequisite: CHM 2045, MAC 2313 and PHY 2048.

EML 3301C Mechanics of Materials Laboratory 3 Credits
Grading Scheme: Letter Grade
Experimental characterization of the mechanical properties of engineering materials, precision instruments, computer-based data acquisition, statistical uncertainty analysis, preparation of engineering reports. (WR)
Prerequisite: EGM 3520, EGM 3344, and ENC 2210 or ENC 3254.
Attributes: Satisfies 6000 Words of Writing Requirement

EML 4140 Heat Transfer 3 Credits
Grading Scheme: Letter Grade
Steady state and transient analysis of conduction and radiation heat transfer in stationary media. Also discusses heat transfer in fluid systems, including forced and free convection.
Prerequisite: MAP 2302 with minimum grade of C and (EAS 4101 or EGN 3353C).

EML 4147C Thermal Sciences Design and Laboratory 3 Credits
Grading Scheme: Letter Grade
Thermodynamics, fluid mechanics, and heat transfer integrated with design and laboratory.
Prerequisite: EML 3100 with a minimum grade of C and EML 3301C and EML 4140.

EML 4220 Vibrations 3 Credits
Grading Scheme: Letter Grade
Single and multiple degree of freedom systems, including application to mechanical systems with problems employing computer techniques.
Prerequisite: EGM 3344 and EGM 3401 and EGM 3520 and MAP 2302 with minimum grades of C.

EML 4304C Thermo/Fluid Design and Laboratory 3 Credits
Grading Scheme: Letter Grade
Design and laboratories for turbomachinery, compressible flow, chemical reactions, and thermodynamic cycles.
Prerequisite: EGN 3353C and EML 3100 and EML 3301C.

EML 4312 Control of Mechanical Engineering Systems 3 Credits
Grading Scheme: Letter Grade
Theory, analysis and design of control systems, including mechanical, electromechanical, hydraulic, pneumatic, and thermal components and systems.
Prerequisite: EGM 3401 and EGM 3344 and MAP 2302 with minimum grades of C.

EML 4314C Dynamics and Controls System Design Laboratory 3 Credits
Grading Scheme: Letter Grade
Experiments on dynamic systems in mechanical and aerospace engineering and design of relevant control systems.
Prerequisite: EML 3301C and EML 4312.

EML 4321 Manufacturing Engineering 3 Credits
Grading Scheme: Letter Grade
Traditional and nontraditional manufacturing processes and equipment. Application of engineering analysis tools to manufacturing.
Prerequisite: EMA 3010 and EML 2322L and EML 3005.

EML 4410 Combustion Engineering 3 Credits
Grading Scheme: Letter Grade
Fundamentals of combustion processes and systems; including thermochemistry, rates and mechanisms, pollutant analysis, premixed and diffusion flames and applications to engines and turbomachinery.

EML 4450 Energy Conversion 3 Credits
Grading Scheme: Letter Grade
Thermomechanical and thermoelectric energy conversion, conventional and unconventional techniques and analysis of energy systems interactions.

EML 4500C Reengineering Historic Machinery 3 Credits
Grading Scheme: Letter Grade
Studies historic commercial machine or vehicle, including theory of operation, embedded engineering principles, and design. Reengineering and design of enhancements. Laboratory includes disassembly, observation of characteristics and conditions, implementation of enhancements, and rebuilding.
Prerequisite: EML 2322L and EML 3005 and EML 3100 with minimum grades of C.

EML 4501 Mechanical Engineering Design 2 3 Credits
Grading Scheme: Letter Grade
Integrated design and presentation of a mechanical system.
Prerequisite: EGN 3353C and EML 2322L and EML 3005 and EGM 3401 with minimum grades of C.
Corequisite: EML 4321 and EML 4507.

EML 4502 Mechanical Engineering Design 3 3 Credits
Grading Scheme: Letter Grade
Design and realization of a mechanical engineering system, component, or process subject to appropriate standards and constraints. Team Project.
Prerequisite: EML 4501;
Corequisite: EML 4321.

EML 4507 Finite Element Analysis and Design 3 Credits
Grading Scheme: Letter Grade
Stress-strain analysis and design of machine elements and finite element analysis.
Prerequisite: EGM 3344 and EGM 3520 and MAP 2302 with minimum grades of C.

EML 4600 Refrigeration and Air Conditioning Fundamentals 3 Credits
Grading Scheme: Letter Grade
Fundamentals of refrigeration theory, vapor compression and absorption, refrigeration components and systems, psychrometric theory, analysis of cooling and dehumidifying coils.
Prerequisite: EML 3100.

EML 4601 Heating and Air Conditioning System Design 3 Credits
Grading Scheme: Letter Grade
Heating and air conditioning systems: equipment selection, system arrangement, load calculations, advanced psychrometrics, duct and piping system design, air distribution system design and indoor air quality.
Prerequisite: EML 3100.

EML 4722 Introduction to Computational Fluid Dynamics 3 Credits
Grading Scheme: Letter Grade
General theory, skepticism, and practice of computational fluid dynamics. Computational grids and generation, boundary conditions, fluid dynamics, numerical methods, visualization, turbulence modelling, and various special topics.
Prerequisite: EAS 4101 or EGN 3353C

EML 4737 Hydronics and Pneumatics for Building Systems 3 Credits
Grading Scheme: Letter Grade
Applications, design, maintenance and operations of various pneumatic, hydronic and other process systems. Includes in-depth design concepts and techniques as well as preparation of specifications and cost estimates.
Prerequisite: EGN 3353C.

EML 4738 Hydraulic and Mechanical Power Transmission 3 Credits
Grading Scheme: Letter Grade
Transmission of power in machines by hydraulic and mechanical means, including analytical design of components and their functions.
Prerequisite: EML 3005.

EML 4905 Individual Study in Mechanical Engineering 1-3 Credits
Grading Scheme: Letter Grade
Selected problems or projects in the student's major field of engineering study.
Prerequisite: 2.3 UF GPA and department permission.

EML 4912 Integrated Product and Process Design 1: Mechanical Engineering 3 Credits
Grading Scheme: Letter Grade
The first part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.
Prerequisite: EGN 3353C and EGM 3401 and EML 3005 and EML 3301C.

EML 4913 Integrated Product and Process Design 2: Mechanical Engineering 3 Credits
Grading Scheme: Letter Grade
The second part of the integrated design sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes-on time and within budget.
Prerequisite: EML 4912.

EML 4926 Mechanical Consulting Practice 3 Credits
Grading Scheme: Letter Grade
Synthesis and analysis of mechanical engineering systems, planning and execution of engineering contracts, and supervision of construction and tests.
Prerequisite: senior standing.

EML 4930 Special Topics in Mechanical Engineering 1-3 Credits
Grading Scheme: Letter Grade
Variable content in mechanical engineering not offered in other courses.
Prerequisite: instructor permission.

EML 4945 Practical Work in Mechanical Engineering 1 Credit
Grading Scheme: S/U
Practical engineering work under industrial supervision, as set forth in the Herbert Wertheim College of Engineering regulations.
Prerequisite: Engineering major with a 2.0 UF GPA.

EML 4949 Co-op Work Experience 1 Credit
Grading Scheme: S/U
Practical co-op work experience under approved industrial supervision.
Prerequisite: Engineering major with a 2.0 UF GPA.

Medicine

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Interdisciplinary Programs

There are two interdisciplinary majors within the College of Medicine for qualified undergraduates with department permission: neurobiological sciences and biochemistry and molecular biology. Both programs are offered in cooperation with the College of Liberal Arts and Sciences.

Neurobiological sciences involves coursework in the Department of Neuroscience and related disciplines, and biochemistry and molecular biology involves coursework in the Department of Biochemistry and Molecular Biology. Both programs require independent laboratory research and additional electives. Applications should be made to the departments in the sophomore or early junior year.

For a complete description of the courses offered by the College of Medicine, refer to:

- College of Medicine (http://www.med.ufl.edu)
- Graduate School (http://www.graduateschool.ufl.edu/academics/graduate-catalog) catalog.

Courses

BMS 3521 Human Physiology in Translation 3 Credits
Grading Scheme: Letter Grade
Human physiology organized into four major physiological systems: cellular/endocrine, cardiovascular, respiratory and renal physiology. For each system, translational topics bridge basic science to contemporary medical issues relevant to undergraduates and society. Designed to be of special interest to those pursuing medically related careers.
Prerequisite: APK 2105C or BSC 2010 or MCB 2000 or instructor permission.

BMS 4136C Human Histology 4 Credits
Grading Scheme: Letter Grade
For pre-professional students. Lectures emphasize the biology of cells and extracellular components that underlie tissue function. Laboratories emphasize visualization of corresponding structures by light microscopy, with correlation to images acquired by electron microscopy.
Prerequisite: PCB 3023 or PCB 3134 or instructor permission.

BMS 4905 Medical Sciences Senior Research 1-5 Credits
Grading Scheme: Letter Grade
Laboratory or literature investigations of current problems in the medical sciences.
Prerequisite: instructor permission.

MDU 4001 Introduction to Medical Science Seminar 1 3 Credits
Grading Scheme: Letter Grade
First of two courses of introduction to the medical sciences.

MDU 4002 Introduction to Medical Science Seminar 2 3 Credits
Grading Scheme: Letter Grade
The second course of introduction to the medical sciences.

MDU 4003 Introduction to the Professions of Medicine 3 Credits
Grading Scheme: Letter Grade
A web-based course about the medical field. Online lectures are presented by medical students, residents and practicing physicians who take students through various aspects of the medical profession.

MDU 4004 Physician Shadowing 3 Credits
Grading Scheme: Letter Grade
Provides background knowledge in issues related to clinical care such as privacy, professionalism and compassion, while students shadow clinicians in the Gainesville area. Course is provided through participation at the Equal Access Clinic and individual physician clinics. Enrollment is completed by the College of Medicine.
Prerequisite: MDU 4003.

MDU 4008 Aspects of the Art of Medicine 2 Credits
Grading Scheme: Letter Grade
Introduces the Essential Competencies Needed to Practice the Art of Medicine; Designed to Assist Third Year Students in the Medical Honors Program for Successful Transition to Uf College of Medicine. Provides Knowledge, Skills, and Experiences to Be Successful Personally and Professionally During Medical Education and Beyond.
Prerequisite: third year standing in the Medical Honors Program.

MDU 4010 Cell Biology Seminar 4 Credits
Grading Scheme: Letter Grade
Cellular functions in health and disease. The structure and molecular biology of mammalian cells are stressed, including virus-cell interactions, inborn errors or metabolism and bacterial growth.

MDU 4031 Medicine and the Law 3 Credits
Grading Scheme: Letter Grade
The importance of the law and its impact on the way medicine is practiced in the United States, presented from academics and practicing attorneys and physicians.
Prerequisite: MDU 4003.

MDU 4032 Health Care Economics 2 Credits
Grading Scheme: Letter Grade
This course examines key health care issues in the United States using economic theory as the framework for analysis. Students will analyze health care issues, using efficiency and equity criteria, and evaluate current health care policies for their effects on access, quality and cost. Topics include the health economy; the production and demand for health and medical care; the market for health insurance; private (e.g. employment based) and public (e.g. Medicare and Medicaid) sources of health insurance; managed care; and health care reform.

MDU 4051 Medical Humanities and Clinical Practice 2 Credits
Grading Scheme: Letter Grade
Introductory course to the physical realities of patient care and to the way in which medical humanities illuminate understanding of the practice of medicine.

MDU 4061 Introduction to Medical Bioethics 3 Credits
Grading Scheme: Letter Grade
Bioethical issues facing our nation and world and the impact of these issues in medicine and research. Also includes the importance of integrated, collaborative research and the professionalism expected within the healthcare and scientific communities.
Prerequisite: MDU 4003.

MDU 4070 Physician Perspectives on Glocal Topics in Healthcare 3 Credits
Grading Scheme: Letter Grade
Covers topics in global and local health that is necessary for today?s practicing physician leader. Designed to assist third year students in the MHP to become leaders in the social aspects of medicine, it provides the necessary knowledge, skills, and experiences to be physician activists.
Prerequisite: active third year student in the Medical Honors Program.

MDU 4850 Diseases of Eating 3 Credits
Grading Scheme: Letter Grade
A web-based course that focuses on anorexia, bulimia and obesity and emphasizes societal issues associated with these disorders. Written assignments are opinion-based, encouraging the student to think about these disorders on a broad scale.

Medieval and Early Modern Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

MEM 2500 The Tales of King Arthur 3 Credits
Grading Scheme: Letter Grade
The great literary works of the Arthurian tradition and the manner in which the tales of King Arthur serve, from their 6th century Celtic origins to the present, to articulate the interests and values of different social groups throughout history. (H and N)
Attributes: General Education - Humanities, General Education - International

MEM 3003 Introduction to the Medieval World 3 Credits
Grading Scheme: Letter Grade
Chronological and topical introduction to history of the medieval millennium (400-1400). (H and N)
Attributes: General Education - Humanities, General Education - International

MEM 3300 Castles and Cloisters: An Introduction to Medieval Communities 3 Credits
Grading Scheme: Letter Grade
Studies monastic and courtly-chivalric communities as these evolved in the Middle Ages. Explores architecture, art, literature and music illustrate how different monastic and chivalric communities saw the world and their place in it. (H and N)
Attributes: General Education - Humanities, General Education - International

MEM 3301 Palaces and Cities: An Introduction to Early Modern Communities 3 Credits
Grading Scheme: Letter Grade
Explores the new kind of European culture that emerges with early modern residential palaces and cities. The study of seminal texts in poetry, politics and theology, and of early modern cities and palaces shows the new operant principle in cultural processes to be the primacy of the individual. (H)
Prerequisite: ENC 1101 or the equivalent.
Attributes: General Education - Humanities

MEM 3730 Studies in the Holy Roman Empire 3 Credits
Grading Scheme: Letter Grade
Variable content examines the political and religious ideas and the literary and artistic productions associated with significant stages in the history of the Holy Roman Empire.
Attributes: General Education - Humanities, General Education - International

MEM 3805 Research Methods in Medieval and Early Modern Studies 1 Credit
Grading Scheme: Letter Grade
How to conduct research in medieval and early modern studies. Learn how to find and effectively search the most appropriate print and electronic resources for their research projects. The research skills developed have broader applicability than medieval and early modern studies.
Prerequisite: ENC 1101 or the equivalent.

MEM 3931 Variable Topics in Medieval and Early Modern Studies 3 Credits
Grading Scheme: Letter Grade
Provides intermediate study in medieval and early modern studies.
Prerequisite: ENC 1101 or the equivalent.

MEM 4905 Independent Study in Medieval and Early Modern Studies 1-5 Credits
Grading Scheme: Letter Grade
Independent work in medieval and early modern studies.
Prerequisite: instructor permission.

MEM 4931 Special Topics in Medieval and Early Modern Studies 1-3 Credits
Grading Scheme: Letter Grade
Advanced study in medieval and early modern studies.

Microbiology and Cell Science

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

BSC 2891 Python Programming for Biology 3 Credits
Grading Scheme: Letter Grade
Discoveries in biology are driven as much by computer analysis as by laboratory work. Learn the theory and practice of computer programming with emphasis on the practical techniques and problem solving skills required to use computer programming in biological research. Taught completely online.

BSC 4434C Introduction to Bioinformatics 3 Credits
Grading Scheme: Letter Grade
Lecture and hands-on computer laboratories emphasize data-mining tools freely available in web-based resources that predict gene function from DNA, RNA, and protein sequences.
Prerequisite: MCB 3020 or MCB 3023 or BCH 4024 or CHM 3218 with a minimum grade of C.

BSC 4913 Independent Research in Bioinformatics 3 Credits
Grading Scheme: Letter Grade
Mentored research experience at the interface between computational and biological sciences; preparation for competitive graduate-school and industry positions in bioinformatics.
Prerequisite: BSC 2891 or MCB 4320C or BSC 4434C or BSC 4434C with a minimum grade of C.

BSC 4914 Advanced Independent Research in Bioinformatics 3 Credits
Grading Scheme: Letter Grade
Mentored bioinformatics research experience that challenges students to develop a deeper understanding of bioinformatics methodologies, to frame biological questions, to evaluate primary scientific literature and to present their research in formal written and oral presentations.
Prerequisite: BSC 4913 with a minimum grade of C.

MCB 2000 Microbiology 3 Credits
Grading Scheme: Letter Grade
Role of microorganisms in chemical transformations, disease, public health and agriculture. Fundamental concepts are discussed, followed by beneficial and harmful actions of microorganisms as they affect our lives. Suitable as a general education science course, but not acceptable for admission to advanced microbiology courses nor for the preprofessional curricula required for the medical/veterinary sciences. (B)
Attributes: General Education - Biological Science

MCB 2000L Microbiology Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory exercises demonstrate biochemical transformations and present methods for studying microbial properties. Suitable as a general education science course, but not acceptable for admission to advanced microbiology courses nor for the preprofessional curricula required for the medical/veterinary sciences.
Corequisite: MCB 2000.

MCB 2006 Microbes without Borders 3 Credits
Grading Scheme: Letter Grade
Introduces the amazing world of microbiology; microbes play a significance role for individuals, for our communities, and for the whole planet. Readings, discussions, and activities provide a mind-opening, global journey to acknowledge the great things microbes do for us.

MCB 3015C Lab Skills Bootcamp 1 Credit
Grading Scheme: Letter Grade
Provides a foundation and advanced skills all biological science students should master. Emphasizes analytical, computational, communication and other lab skills above and beyond bench work.
Prerequisite: BSC 2010 or equivalent, AG majors or MCY majors only;
Corequisite: CHM 2045 or equivalent.

MCB 3020 Basic Biology of Microorganisms 3 Credits
Grading Scheme: Letter Grade
Introduces the principles and techniques of microbiology, genetics, taxonomy, biochemistry and ecology and microorganisms. Also studies virology, immunology, and the pathogenicity of microorganisms. (B)
Prerequisite: BSC 2010 and BSC 2010L, or ISC 2400L, or ISC 2401L, or equivalent, with minimum grades of C; BSC 2011 and BSC 2011L, or equivalent, or AGR 3303, with minimum grades of C; non-microbiology majors only.
Corequisite: CHM 2200 or CHM 2210.
Attributes: General Education - Biological Science

MCB 3020L Laboratory for Basic Biology of Microorganisms 1 Credit
Grading Scheme: Letter Grade
Laboratory exercises on the structure, nutrition and growth of prokaryotic and eukaryotic cells. Includes isolation and classification of representative microorganisms.
Corequisite: MCB 3020; non-microbiology majors only.

MCB 3023 Principles of Microbiology 3 Credits
Grading Scheme: Letter Grade
Introduces the principles and techniques of microbiology, genetics, taxonomy, biochemistry, and ecology of microorganisms. Required of all majors and students who will enroll in more advanced courses in the Department of Microbiology and Cell Science.
Prerequisite: BSC 2010 and BSC 2010L, or ISC 2400L, or ISC 2401L, or equivalent, with minimum grades of C; BSC 2011 and BSC 2011L, or equivalent, or AGR 3303, with minimum grades of C; microbiology majors only.
Corequisite: CHM 2200 or CHM 2210, with mini

MCB 3023L Principles of Microbiology Laboratory 2 Credits
Grading Scheme: Letter Grade
Laboratory techniques on the structure, nutrition, biochemistry, genetics, and growth of microorganisms. Required of all majors and students who will enroll in more advanced courses in the Department of Microbiology and Cell Science.
Prerequisite: MCB or MCY major;
Corequisite: MCB 3023.

MCB 3703 Astrobiology 3 Credits
Grading Scheme: Letter Grade
Examines the origin, evolution and future of life in our solar system. Include planetary habitability, astrobiogeochemistry, microbial life, and human space flight. (WR)
Prerequisite: introductory course in microbiology, astronomy, chemistry, physics or geology.
Attributes: Satisfies 4000 Words of Writing Requirement

MCB 3933 Professional Development in Microbiology and Cell Science 1-2 Credits
Grading Scheme: Letter Grade
Assistance in making career decisions and organizing supporting academic credentials. Emphasizes the wide variety of career opportunities and professional development tools applicable to careers in professional schools, academia, industry, and alternative professions.
Prerequisite: BSC 2011 and CHM 2045 or equivalent; AG and MCY majors only.

MCB 4034L Advanced Microbiology Laboratory 1 Credit
Grading Scheme: Letter Grade
Application of immunological, molecular biological and microbial techniques to the isolation, identification, and characterization of bacteria and viruses.
Prerequisite: MCB 3020 or MCB 3023, MCB 3020L or MCB 3023L with minimum grades of C.

MCB 4150 Prokaryotic Diversity 3 Credits
Grading Scheme: Letter Grade
Introduces the diversity of bacteria and archaea. Discussions provide a conceptual and historical framework for understanding their origin and evolution; morphological, metabolic, and molecular characteristics; genetic and physiological diversity; importance in human, animal, and plant health; and roles in elemental cycling.
Prerequisite: MCB 3020 or MCB 3023 with a minimum grade of C.

MCB 4203 Bacterial Pathogens 3 Credits
Grading Scheme: Letter Grade
Host-microbe relationships in the diseases of humans and animals, including the virulence characteristics of bacterial pathogens, the techniques used in their isolation/identification, and molecular approaches to the study of their virulence.
Prerequisite: MCB 3020 or MCB 3023 with minimum grade of C.

MCB 4304 Genetics of Microorganisms 3 Credits
Grading Scheme: Letter Grade
Molecular biology of bacterial gene expression, including DNA replication, mutation, genetic mapping using plasmids and phages, and recombinant DNA mechanisms.
Prerequisite: MCB 3020 or MCB 3023, and MCB 3020L or MCB 3023L with minimum grades of C; BCH 4024 should be taken before MCB 4403.

MCB 4320C The Microbiome 3 Credits
Grading Scheme: Letter Grade
Increase knowledge, appreciation, and use of genomics pertaining to the breadth of microbial diversity across a wide variety of organisms and habitats using methods that do not require culturing of the myriad of inhabitants. Use tools, practice analysis, and interpretation of genomic data sets to analyze different microbiomes.
Prerequisite: MCB 3020 or MCB 3023 with minimum grades of C.

MCB 4325C R for Functional Genomics 3 Credits
Grading Scheme: Letter Grade
Introduces the Basics of the R Language and to state of the art methods for functional genomics data analysis. Learn how to write R scripts, choose appropriate statistical tools, and how to use Linux environments to analyze high-throughput genomics data.
Prerequisite: STA 2023 and BSC 2010, BSC 2011, MCB 3020, MCB 3023, BCH 4024, or CHM 3218.

MCB 4403 Prokaryotic Cell Structure and Function 3 Credits
Grading Scheme: Letter Grade
Analyzes the cell structure and physiology of bacterial cells. Extensive discussion of cell division and cell growth is provided along with descriptions of important bacterial cell structures (e.g. cell walls, membranes, flagella, etc.)
Prerequisite: CHM 2211, and MCB 3020 or MCB 3023, and MCB 3020L or MCB 3023L with minimum grades of C; BCH 4024 should be taken before MCB 4403.

MCB 4422 Probiotics 3 Credits
Grading Scheme: Letter Grade
Covers the use of microorganisms to promote a health status in the host and provides a conceptual background in microbiology and immunology for the use of microorganisms for the prevention or treatment of animal and human diseases.

MCB 4503 General Virology 3 Credits
Grading Scheme: Letter Grade
Nature of viruses and mechanisms of infection and replication, including bacterial, animal, and plant viruses.
Prerequisite: MCB 3020 or MCB 3023 or MCB 4203 or PCB 3023 or BCH 3023 or PCB 3134 with minimum grade of C.

MCB 4652 Environmental Microbiology 3 Credits
Grading Scheme: Letter Grade
Overview of microorganisms in the environment including occurrence, abundance and distribution; processes of microbial interaction with the environment; and practices of applied environmental microbiology.
Prerequisite: MCB 3020, MCB 3023 or equivalent introductory microbiology course with minimum grade of C.

MCB 4782 Extremophiles 3 Credits
Grading Scheme: Letter Grade
Learn about the evolution, physiology, biochemistry, and molecular biology of extremophiles with emphasis on archaea and their viruses. Discuss principles of energy metabolism at the limits of life. Highlights research that incorporates cutting-edge techniques and biotechnology applications for using extremophiles to solve real world problems.
Prerequisite: CHM 2211 and either MCB 3020/MCB 3020L or MCB 3023/MCB 3023L.

MCB 4905 Independent Study 0-4 Credits
Grading Scheme: S/U
Individual laboratory research under the guidance of a faculty member. Required of, but not limited to, candidates for high and highest honors. Not acceptable toward 25 credits of required department and elective credits. (S-U)
Prerequisite: undergraduate advisor permission; microbiology majors only.

MCB 4911 Supervised Research in Microbiology and Cell Science 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.. (S-U)

MCB 4915 Honors Thesis Research in Microbiology and Cell Science 0-3 Credits
Grading Scheme: Letter Grade
Independent research in microbiology and cell science leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

MCB 4934 Special Topics in Microbiology and Cell Science 1-4 Credits
Grading Scheme: Letter Grade
Supervised literature or historical study on current topics in microbiology and cell science. Not acceptable toward 25 credits of required department and elective credits.
Prerequisite: undergraduate coordinator permission.

MCB 4941 Microbiology and Cell Science Internship 1-4 Credits
Grading Scheme: Letter Grade
Internship in microbiology and cell science under supervision of the department.

NUR 3197 Genetics and Genomics in Health Care 2 Credits
Grading Scheme: Letter Grade
Genetics and genomics are advancing quickly and will play a greater role in health care as personal genome sequencing becomes available. Reinforces basic genetics and genomics concepts and exploring how genomics may affect health care.
Prerequisite: nursing major.

PCB 1051 Exploring Your Genome 3 Credits
Grading Scheme: Letter Grade
How the genome sequence is analyzed and its implications on human health. Promotes genetic literacy (see syllabus for specific topics).

PCB 3134 Eukaryotic Cell Structure and Function 3 Credits
Grading Scheme: Letter Grade
Lecture and discussions in the field of cell biology with emphasis on the interrelation of structure and function, the regulation of metabolism and the specialized activities of plant and animal cells.
Prerequisite: BSC 2010 and BSC 2010L, or equivalent, with minimum grades of C; BSC 2011 and BSC 2011L, or equivalent, or AGR 3303 and CHM 2210, with minimum grades of C; CHM 2200 or CHM 2210, with minimum grade of C.
Corequisite: CHM 2211 and CHM 2211L.

PCB 4233 Immunology 3 Credits
Grading Scheme: Letter Grade
Basic concepts in immunology, including specific components, development and function.
Prerequisite: (MCB 3023, MCB 3020, BCH 4024, CHM 3218, or PCB 3134) with minimum grade of C.

PCB 4522 Molecular Genetics 3 Credits
Grading Scheme: Letter Grade
Molecular biology of prokaryotes and eukaryotes covering the fundamentals of genome organization and gene structure, regulation of transcription, DNA replication and repair, and RNA processing. Also includes discussion of strategies, vectors and applications of genetic engineering in higher plants and animals.
Prerequisite: BSC 2010 and BSC 2010L with minimum grades of C.

ZOO 4232 Human Parasitology 3 Credits
Grading Scheme: Letter Grade
Host-parasite relationships of helminth and protozoan diseases important in health sciences and veterinary medicine.
Prerequisite: BSC 2010 and BSC 2010L, or equivalent; and BSC 2011 and BSC 2011L, or equivalent, or AGR 3303 with minimum grades of C.

Military Science

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AFR 1101 The Air Force Today 1 Credit
Grading Scheme: Letter Grade
Introduces the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems and an introduction to communication skills.
Corequisite: AFR 1101L.

AFR 1101L General Military Course (GMC) Leadership Laboratory 1 Credit
Grading Scheme: S/U
Air Force customs, courtesies, drills and ceremonies; issuing military commands; instructing, directing and evaluating the preceding skills; studying the environment of an Air Force officer; and learning about areas of opportunity available to commissioned officers. (S-U)
Corequisite: AFR 1101.

AFR 1120 The Air Force Today 1 Credit
Grading Scheme: Letter Grade
Introduces the United States Air Force and Air Force Reserve Officer Training Corps. Topics include introduction to flight, oral and written communication techniques and an overview of military services.
Corequisite: AFR 1120L.

AFR 1120L General Military Course (GMC) Leadership Laboratory 1 Credit
Grading Scheme: S/U
Air Force customs, courtesies, drills and ceremonies; issuing military commands; instructing, directing and evaluating the preceding skills; studying the environment of an Air Force officer; and learning about areas of opportunity available to commissioned officers. (S-U)
Corequisite: AFR 1120.

AFR 2130 The Evolution of USAF Air and Space Power 1 Credit
Grading Scheme: Letter Grade
Examines USAF air and space power from a historical perspective. Covers the earliest aircraft, both World Wars, the Korean and Vietnam conflicts, air and space employment during the Cold War.
Corequisite: AFR 2130L.

AFR 2130L General Military Course (GMC) Leadership Laboratory 1 Credit
Grading Scheme: S/U
Air Force customs, courtesies, drills and ceremonies; issuing military commands; instructing, directing and evaluating the preceding skills; studying the environment of an Air Force officer; and learning about areas of opportunity available to commissioned officers. (S-U)
Corequisite: AFR 2130.

AFR 2140 The Evolution of USAF Air and Space Power 1 Credit
Grading Scheme: Letter Grade
Continuation of AFR 2130 and the exploration of Air Force history, beginning with the Vietnam era and culminating with the application of air and space power in recent conflicts.
Corequisite: AFR 2140L.

AFR 2140L General Military Course (GMC) Leadership Laboratory 1 Credit
Grading Scheme: S/U
Air Force customs, courtesies, drills and ceremonies; issuing military commands; instructing, directing and evaluating the preceding skills; studying the environment of an Air Force officer; and learning about areas of opportunity available to commissioned officers. (S-U)
Corequisite: AFR 2140.

AFR 3220 Air Force Leadership and Management 3 Credits
Grading Scheme: Letter Grade
Leadership and quality management fundamentals, professional knowledge, Air Force doctrine, leadership ethics and communication skills required of an Air Force junior officer. Case studies examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts studied.
Corequisite: AFR 3220L.

AFR 3220L Professional Officer Course (POC) Leadership Laboratory 1 1 Credit
Grading Scheme: S/U
Advanced leadership experiences planning and controlling military activities of the cadet corps, the preparation and presentation of briefings and other communications, and the interviews, guidance and information to increase cadet understanding, motivation and performance. (S-U)
Corequisite: AFR 3220.

AFR 3231 Air Force Leadership and Management 3 Credits
Grading Scheme: Letter Grade
Studies leadership and quality management fundamentals, professional knowledge, Air Force doctrine, leadership ethics and communication skills required of an Air Force junior officer. Case studies examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts studied.
Corequisite: AFR 3231L.

AFR 3231L Professional Officer Course (POC) Leadership Laboratory 2 1 Credit
Grading Scheme: S/U
Advanced leadership experiences planning and controlling military activities of the cadet corps, the preparation and presentation of briefings and other communications, and the interviews, guidance and information to increase cadet understanding, motivation and performance. (S-U)
Corequisite: AFR 3231.

AFR 4201 Preparation for Active Duty 1 3 Credits
Grading Scheme: Letter Grade
Examines the national security process, regional studies, advanced leadership ethics and Air Force doctrine. Topics focus on the military as a profession, officership, military justice and civilian control of the military. Within this structure, continued emphasis is given to refining communication skills.
Corequisite: AFR 4201L.

AFR 4201L Professional Officer Course (POC) Leadership Laboratory 3 1 Credit
Grading Scheme: S/U
Advanced leadership experiences planning and controlling military activities of the cadet corps, the preparation and presentation of briefings and other communications, and the interviews, guidance and information to increase cadet understanding, motivation and performance. (S-U)
Corequisite: AFR 4201.

AFR 4211 Preparation for Active Duty 2 3 Credits
Grading Scheme: Letter Grade
Examines advanced leadership ethics, officership, preparation for active duty and current issues affecting military professionalism. Continued emphasis is given to refining communication skills.
Corequisite: AFR 4211L.

AFR 4211L Professional Officer Course (POC) Leadership Laboratory 4 1 Credit
Grading Scheme: S/U
Advanced leadership experiences planning and controlling military activities of the cadet corps, the preparation and presentation of briefings and other communications, and the interviews, guidance and information to increase cadet understanding, motivation and performance. (S-U)
Corequisite: AFR 4211.

MSL 1001 Foundations of Officership 2 Credits
Grading Scheme: Letter Grade
Purpose and organization of the Army Reserve Officer Training Corps (ROTC) and the United States Army. Introduction to military customs and traditions, rank structure and the role of an Army officer. Each student must register for and attend a two-hour weekly leadership laboratory (MSL 1001L).

MSL 1001L Freshman Leadership Laboratory 0 Credits
Grading Scheme: Letter Grade
Laboratory consists of a two-hour block of instruction that directly supports freshman classroom instruction. Participation in at least one weekend field training session, one community service project and two army physical fitness tests are required.
Corequisite: MSL 1001.

MSL 1002 Basic Leadership 2 Credits
Grading Scheme: Letter Grade
Study and application of the Army ROTC Leadership Development Program (LDP). Instruction includes theory and application of leadership principles, competencies and dimensions. Individual leadership is developed through hands-on instruction in basic, individual military skills. Introduces students to leadership attributes and the application of those attributes in and out of the classroom. Students must register for and attend a two-hour weekly leadership laboratory (MSL 1002L).

MSL 1002L Freshman Leadership Laboratory 0 Credits
Grading Scheme: Letter Grade
Laboratory consists of a two-hour block of instruction that directly supports freshman classroom instruction. Participation in at least one weekend field training session, one community service project and two army physical fitness tests are required.
Corequisite: MSL 1002.

MSL 2101 Individual Leadership Studies 2 Credits
Grading Scheme: Letter Grade
The future leader through classroom instruction, laboratory application and an in-depth look at basic troop/organization leadership principles and skills. Provides training on the basics of rifle marksmanship and instruction on the principles of modern warfare and effective writing. Students must register for and attend a two-hour weekly leadership laboratory (MSL 2101L).

MSL 2101L Sophomore Leadership Laboratory 0 Credits
Grading Scheme: Letter Grade
Laboratory consists of a two-hour block of instruction that directly supports sophomore classroom instruction. Participation in at least one weekend field training session, one community service project and two army physical fitness tests are required.
Corequisite: MSL 2101.

MSL 2102 Leadership and Teamwork Techniques 2 Credits
Grading Scheme: Letter Grade
The future leader through classroom instruction, laboratory application and an in-depth look at basic troop/organization leadership principles and skills. Provides training on the basics of rifle marksmanship and instruction on the principles of modern warfare and effective writing. Students must register for and attend a two-hour weekly leadership laboratory.

MSL 2102L Sophomore Leadership Laboratory 0 Credits
Grading Scheme: Letter Grade
Laboratory consists of a two-hour block of instruction that directly supports sophomore classroom instruction. Participation in at least one weekend field training session, one community service project and two army physical fitness tests are required.
Corequisite: MSL 3202.

MSL 3201 Leadership and Problem Solving 3 Credits
Grading Scheme: Letter Grade
Instruction for the advanced ROTC cadet in infantry squad tactics and operations to broaden general military skills and enhance performance at ROTC Advanced Camp. Topics include the ROTC Leadership Development Program (LDP), land navigation and map reading, basic rifle marksmanship techniques, effective written and oral communication skills, troop leading procedures and infantry squad offensive and defensive operations. Cadets must attend a two-hour weekly leadership laboratory and participate in a physical fitness program given at times other than normal class sessions.

MSL 3202 Leadership and Ethics 3 Credits
Grading Scheme: Letter Grade
Improves cadet proficiency in those military subjects necessary to meet minimum standards of technical competence and self-confidence required of a junior officer in the U.S. Army. Prepares cadets for participation at ROTC advanced camp. Major emphasis during course is physical training and field training exercises. Student must attend a weekly two-hour leadership laboratory and participate in physical fitness sessions given at times other than normal class sessions.

MSL 4301 Leadership and Management 3 Credits
Grading Scheme: Letter Grade
Designed to prepare cadets for duty as commissioned officers. Instruction centers on proficiency/familiarization with the military justice system, military administration, the officer professional management system, international laws of war and principles of management/ leadership. Students also participate in a physical fitness program.

MSL 4302 Officership 3 Credits
Grading Scheme: Letter Grade

MSL 4905 Independent Study 1-3 Credits
Grading Scheme: Letter Grade
Readings and discussion in advanced topics of military science.
Prerequisite: department permission.

MSL 4941 Advanced Leader Training 4 Credits
Grading Scheme: Letter Grade
National advanced leader's course is the Army's 5-week leader internship conducted at Fort Lewis, Washington, from June through August. The camp places each cadet and officer candidate in a variety of leadership positions, many of which simulate stressful combat situations. Cadets are evaluated by platoon tactical officers and NCOs. Training is organized into separate committees in a tiered structure, including basic military skills, leadership development, tactical training, basic rifle marksmanship and situational training exercises. Evaluation is continual.

NSC 1101L Naval Science Laboratory 0 Credits
Grading Scheme: S/U
Drill, basic commands, courtesies and honors, orientation and information.

NSC 1110 Introduction to Naval Science 2 Credits
Grading Scheme: Letter Grade
Introduction to the naval profession and to concepts of seapower. Instruction emphasizes the mission, organization and warfare components of the Navy and Marine Corps. Included is an overview of officer and enlisted ranks and rates, training and education and career patterns. Also covers naval courtesy and customs, military justice, leadership and nomenclature, and exposes the student to the professional competencies required to become a naval officer.

NSC 1140 Seapower and Maritime Affairs 3 Credits
Grading Scheme: Letter Grade
U.S. naval history from the Phoenicians to the present with emphasis on major developments. Included is an in-depth discussion of the geopolitical theory of Mahan. Discusses present-day concerns in seapower and maritime affairs, including the economic and political issues of merchant marine commerce, the Navys involvement in liberation and terrorist movements overseas and the massive changes in the U.S. Navy due to the breakup of the Soviet Union. (WR)
Attributes: Satisfies 2000 Words of Writing Requirement

NSC 2102L Naval Science Laboratory 0 Credits
Grading Scheme: S/U
Drill, basic commands, courtesies and honors, orientation and information.

NSC 2121 Naval Ships Systems 1: Engineering 3 Credits
Grading Scheme: Letter Grade
Basic power systems used in naval propulsion systems, a basic understanding of the thermodynamic process, a working knowledge of major auxiliary ship systems and basic consideration for ship design and stability. Basic electrical theory and damage control are also included.

NSC 2122 Naval Ships Systems 2: Weapons 3 Credits
Grading Scheme: Letter Grade
Introduction to the theory, characteristics and principles of operation of naval weapons systems. Includes coverage of types of weapons and fire control systems, capabilities and limitations, theory of target acquisition, identification and tracking, trajectory principles and basics of naval ordinance.

NSC 3103L Naval Science Laboratory 0 Credits
Grading Scheme: S/U
Practical exercises dealing with the specifics of naval organizations and leadership.

NSC 3214C Navigation and Naval Operations 1 3 Credits
Grading Scheme: Letter Grade
A comprehensive study of the theory, principles and procedures of ship navigation and movements. Piloting and dead reckoning as well as principles of celestial and electronic navigation. In-depth exposure to the navigational rules-of-the-road and the international regulations for preventing collisions at sea and their application to effective safe navigation. Also includes practical lab work in charting and publication usage.

NSC 3215C Navigation and Naval Operations 2 3 Credits
Grading Scheme: Letter Grade
A continuation of navigation and naval operations. Relative motion theory and the use of a maneuvering board. An understanding of the force, techniques and concepts associated with ship handling, including shipboard watch organization, communication systems and environmental considerations. The role of leadership ethics is discussed while developing an understanding of the process of command and control, dealing specifically with information exchange, conflict resolution and crisis decision making.
Prerequisite: NSC 3214C.

NSC 3221 Evolution of Warfare 3 Credits
Grading Scheme: Letter Grade
The forms of warfare employed by great people in history, within the context of historical flow or continuity in the evolution of warfare. Course develops a basic sense of strategy, demonstrates alternative military actions and explores the impact of historical precedent on military thought and actions as practiced by the great leaders and military organizations. (S) (WR; 4000-word writing credit)
Attributes: General Education - Social Science, Satisfies 4000 Words of Writing Requirement

NSC 3225C Fundamentals of Maneuver Warfare 3 Credits
Grading Scheme: Letter Grade
Analyzes the United States Marine Corps as the overarching case study for the advent of maneuver warfare. The value is not simply to learn what has happened in the past, but to use these lessons as the basis for making practical judgments about the present and future.
Prerequisite: NSC 1110 or instructor permission.

NSC 4104L Naval Science Laboratory 0 Credits
Grading Scheme: S/U
Practical exercises dealing with naval organizations and leadership.

NSC 4224 Amphibious Warfare 3 Credits
Grading Scheme: Letter Grade
Historical survey of the projection of seapower ashore. The course defines the concept, explores its doctrinal origins and traces its evolution as an element of naval policy during the 20th century. The case study method is used alongside the theme of general historical continuity to develop an understanding of the relatively new and still maturing concept of amphibious warfare. (H) (WR; 6000-word writing credit)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

NSC 4230 Leadership and Management 2 Credits
Grading Scheme: Letter Grade
The principles of naval administration, stressing the experimental approach to learning the principles of leadership and management. The student develops skills in the areas of communication, counseling, control, direction, leadership and management functions and responsibilities through active, guided participation in naval-based case studies, experimental exercises and situational problems. Total quality leadership and professional responsibilities are included.

NSC 4233 Leadership and Ethics 3 Credits
Grading Scheme: Letter Grade
Equips the NROTC student with the skills and abilities required for competence as a commissioned officer. This final capstone course in the NROTC curriculum builds upon and focuses the managerial, professional and ethical competencies developed during previous summer cruise training and naval science courses. Ethical philosophies and real-world situations are studied through lectures, exercises and case studies. Naval personnel management, the administration of discipline and human resource management are additional areas of focus.

NSC 4905C Independent Study 1-3 Credits
Grading Scheme: Letter Grade
Readings, assignments, student presentations and discussions on naval science.
Prerequisite: department permission.

Music

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

General Information

Music performance courses encompass studio and class lessons and are offered in voice, piano, organ, carillon, violin, viola, violoncello, string bass, flute, oboe, clarinet, bassoon, horn, trumpet, trombone, euphonium, tuba, percussion, saxophone, harpsichord and organ. These courses are primarily for music majors and are open to non-majors only by audition and instructor consent.

The student registering for the first time for music courses reports to the director of music in the School of Music, who designates a faculty member to audition and/or consult with the student and who assigns the student to the proper level and performance course number.

S-U grade options and auditing courses in music performance are not permitted.

Performance courses (1000 level) emphasize basic techniques. Music education, theory/composition, music history/literature and B.A. majors, secondary and non-majors take these courses in their first year.

Performance courses (2000 level) emphasize repertory and mastery of the basic techniques of the performing medium. Students majoring in performance will begin 2000 level courses in the first year.

Performance courses (3000 and 4000 level) are for advanced study. A student takes two semesters at the 3000 level. A full performance faculty jury exam is required for admission to 4000 level. Two semesters at the 4000 level are required of all performance and church music majors. Degree recitals must be presented at the University of Florida. All students accepted for music performance study must register and participate in an appropriate ensemble each semester of study. Consult the School of Music Student Handbook for further information on the ensemble policy.

The performer's certificate will be awarded at the discretion of the faculty to non-performance degree students. Students must be recommended by their performance teacher for the performer's certificate program at the beginning of their junior year.

Courses in performance, theory/composition, music history/literature and music education at the 3000-4000 level may be taken only after a student has achieved professional status by passing the musicianship assessment jury and the preprofessional performance jury. Other requirements include successfully completing musical styles, four semesters of ensemble (if required for degree) and four semesters of satisfactory recital attendance.

Because some students may need additional time to successfully complete the musicianship assessment jury and the preprofessional performance jury, students will be allowed to register for up to nine credits at the 3000 level prior to becoming a professional level music major. Consult the School of Music student handbook for a list of specific 3000/4000-level courses that can be taken before achieving professional level status.

Non-majors can only take music performance courses and certain others after an audition with the instructor. If the student is found to be acceptable to the studio, course will be available only on a space-available basis. Courses are department controlled and all students must see an academic advisor in music before registration.

Courses

HUM 3517 Assessment in Arts Education 3 Credits
Grading Scheme: Letter Grade
Broad foundation in all aspects of assessment as it is applied in the arts classroom, from learning theory to practical application of assessment techniques, data management, critical thinking, progress reporting, and portfolio building. Covers assessment task design in the artistic response modes; develops a series of assessments that can be implemented in the music/art classroom.
Prerequisite: Arts major of junior standing or higher.

MUC 1211 Composition Skills 1 1 Credit
Grading Scheme: Letter Grade
Required for all majors in theory/composition. Workshop in composition techniques, exploring use of styles and devices of contemporary art music and presentation through the use of finale.
Prerequisite: rudimentary music skills or written instructor permission;
Corequisite: MUT 1121.

MUC 1212 Composition Skills 2 1 Credit
Grading Scheme: Letter Grade
Required for all majors in theory/composition. Workshop in composition techniques, exploring use of styles and devices of contemporary art music and presentation through the use of finale.
Prerequisite: MUC 1211 and one semester of music theory, or written instructor permission.
Corequisite: MUT 1122.

MUC 2101 Composition Skills 3 1 Credit
Grading Scheme: Letter Grade
Required for all majors in composition. Workshop in composition techniques, exploring use of styles and devices of contemporary art music and presentation through the use of finale.
Prerequisite: MUC 1212 and one year of music theory, or written instructor permission.

MUC 2102 Composition Skills 4 1 Credit
Grading Scheme: Letter Grade
Required for all majors in composition. Workshop in composition techniques, exploring use of styles and devices of contemporary art music and presentation through use of finale.
Prerequisite: MUC 2101 and one year of music theory, or written instructor permission.

MUC 3231 Composition 1 3 Credits
Grading Scheme: Letter Grade
Composition in simple and extended forms supplemented by analysis of selected compositions, from the standard repertoire and presentation through the use of finale.
Prerequisite: composition skills, MUT 2127 or written instructor permission.

MUC 3232 Composition 2 3 Credits
Grading Scheme: Letter Grade
Composition in simple and extended forms supplemented by analysis of selected compositions, from the standard repertoire and presentation through the use of finale.
Prerequisite: MUC 3231 or written instructor permission.

MUC 4241 Composition 3 3 Credits
Grading Scheme: Letter Grade
Composition in extended forms supplemented by analysis of selection compositions, from the standard repertoire and presentation through the use of finale.
Prerequisite: MUC 3232 or written instructor permission.

MUC 4242 Composition 4 3 Credits
Grading Scheme: Letter Grade
Composition in extended forms supplemented by analysis of selection compositions, from the standard repertoire and presentation through the use of finale.
Prerequisite: MUC 4241 or written instructor permission.

MUC 4313 Introduction to Electroacoustic Music 3 Credits
Grading Scheme: Letter Grade
Survey of the techniques, history, literature and materials of electroacoustic music.
Prerequisite: MUC 2102 or written instructor permission.

MUC 4401 Composition of Electroacoustic Music 3 Credits
Grading Scheme: Letter Grade
Continuation of MUC 4313. Projects in electroacoustic music dealing with real-time, interactivity, live-electronic and solo digital media music composition issues.
Prerequisite: MUC 4313 or written instructor permission.

MUC 4441 Electroacoustic Music Composition: Digital 1 3 Credits
Grading Scheme: Letter Grade
Continuation of skills developed through MUC 4401, Composition of Electroacoustic Music.
Prerequisite: MUC 4401.

MUC 4442 Electroacoustic Music Composition: Digital 2 3 Credits
Grading Scheme: Letter Grade
Continuation of skills developed through MUC 4441, Electroacoustic Music Composition: Digital 1.
Prerequisite: MUC 4441.

MUC 4950 Senior Composition Recital 1 Credit
Grading Scheme: Letter Grade
Organization and presentation of a recital of original compositions.

MUE 1090 Exploring Music Teaching and Learning 1 Credit
Grading Scheme: Letter Grade
An introduction to and overview of music teaching as a profession. Designed for both students who have chosen to major in music education and those who are interested in learning more about a possible career as a music educator.
Prerequisite: Music major or instructor permission.

MUE 2040 Music Teaching as a Profession 3 Credits
Grading Scheme: Letter Grade
An overview of philosophical, historical, psychological, and sociological perspectives on music education in schools. Contemporary topics and trends including diversity, special needs students, and culturally responsive pedagogy will be discussed. The Florida Educator Accomplished Practices (FEAPs) will be introduced. Field experience in schools.

MUE 2430 Voice Skills 1 Credit
Grading Scheme: Letter Grade
Required of all music education majors. Basic technical competency and pedagogical technique for voice.
Prerequisite: music majors only and department permission.

MUE 2440 String Skills 1 1 Credit
Grading Scheme: Letter Grade
Required of all music education majors. Basic technical competency and pedagogical techniques for the upper string instruments: violin/viola.
Prerequisite: music majors only and department permission.

MUE 2442 String Skills 2 1 Credit
Grading Scheme: Letter Grade
Basic technical competency and pedagogical techniques for the lower string instruments: cello and double bass.
Prerequisite: music majors only and department permission.

MUE 2450 Woodwind Skills 1 1 Credit
Grading Scheme: Letter Grade
Required of all music education majors. Basic technical competency and pedagogical techniques for clarinet and flute.
Prerequisite: music majors.

MUE 2452 Woodwind Skills 2 1 Credit
Grading Scheme: Letter Grade
Basic technical competency and pedagogical techniques for alto saxophone, bassoon and oboe.
Prerequisite: music majors only and department permission.

MUE 2460 Brass Skills 1 1 Credit
Grading Scheme: Letter Grade
Required of all music education majors. Basic technical competency and pedagogical techniques for two brass instruments.
Prerequisite: music majors only and department permission.

MUE 2462 Brass Skills 2 1 Credit
Grading Scheme: Letter Grade
Basic technical competency and pedagogical techniques for two brass instruments, other than those studied in MUE 3460.
Prerequisite: music majors only and department permission.

MUE 2470 Percussion Skills 1 Credit
Grading Scheme: Letter Grade
Required of all music education majors. Basic technical competency and pedagogical techniques for percussion instruments.
Prerequisite: music majors only and department permission.

MUE 2471 Percussion Skills 2 1 Credit
Grading Scheme: Letter Grade
Continuation of percussion teaching and performance skills.
Prerequisite: MUE 2470.

MUE 2680 Music Learning with Technology 2 Credits
Grading Scheme: Letter Grade
This class will explore the role of digital technologies in creating, performing, and responding to music, with applications to the practice of K-12 music educators and the cultivation of lifelong music learning and participation.
Prerequisite: Music major.

MUE 3210 Music for the Elementary Child 2-3 Credits
Grading Scheme: Letter Grade
Helps meet state certification requirements for elementary classroom teachers. Function of elementary school music in aiding the developmental growth of children.
Prerequisite: HUM 2511 strongly recommended.

MUE 3311 Music in Elementary Schools 3 Credits
Grading Scheme: Letter Grade
Fundamental principles and procedures of music education in elementary school.
Prerequisite: MUE 2040 and midpoint guidance conference.

MUE 3330 Music in Secondary Schools 3 Credits
Grading Scheme: Letter Grade
Fundamental principles and procedures of music education in the secondary school.
Prerequisite: MUE 2040 and midpoint guidance conference.

MUE 3343 Materials and Methods of String Class Teaching 2 Credits
Grading Scheme: Letter Grade
The study of contemporary materials and methods suitable for use in public school string classes.
Prerequisite: MUE 2440.

MUE 3416 Literature and Arranging for School Choirs 3 Credits
Grading Scheme: Letter Grade
Become familiar with techniques and approaches for selecting and programming literature for K-12 performing ensembles. Introduces fundamental techniques used to create arrangements of choral and vocal works in order to better meet the needs of individual singers or ensembles. Also addresses arranging for instruments.
Prerequisite: MUE 3311 with a minimum grade of C.

MUE 3417 Literature and Arranging for Instrumental Ensembles 3 Credits
Grading Scheme: Letter Grade
Techniques for selecting, programming, and arranging music for school instrumental ensembles. Overview of repertoire and arranging techniques including genres, established works, composers, and publishers; pedagogical and practical considerations related to the selection and modification of music. Discussion of relevant copyright laws.
Prerequisite: MUE 3311.

MUE 4140 Music Student Teaching Seminar 3 Credits
Grading Scheme: Letter Grade
Principles and practices of developing, teaching, and administering K-12 public school music programs.
Prerequisite: EDG 4203 and MUE 3330; MVB 3970; MUG 4202 or MUG 4302.
Corequisite: MUE 4940.

MUE 4421 Teaching Secondary Choral Music 3 Credits
Grading Scheme: Letter Grade
Develop techniques and skills necessary to build and sustain a successful and comprehensive choral program in a secondary school setting. Students will synthesize and apply previous knowledge and skills related to vocal physiology and pedagogy, lesson and curriculum planning, sight-singing and musicianship, and other topics. Field experience in schools.
Prerequisite: MUE 3330, professional performance jury and musicianship assessment jury.

MUE 4422 Teaching Instrumental Music 3 Credits
Grading Scheme: Letter Grade
Develop musical and pedagogical knowledge, skills, and dispositions essential for teaching elementary, middle school, and high school instrumental music. Field work in schools.
Prerequisite: MUE 3330, professional performance jury and musicianship assessment jury.

MUE 4480 Marching Band Techniques 3 Credits
Grading Scheme: Letter Grade
Examination, evaluation and practical application of marching band techniques for the high school and college band director.
Prerequisite: MUE 3330, professional performance jury and musicianship assessment jury.

MUE 4940 Student Teaching in Music Education 9 Credits
Grading Scheme: S/U
Student teaching in selected classrooms of public schools. Special seminars and continuous evaluation of teaching experiences. (S-U)
Corequisite: MUE 4140; all coursework must be completed except MUE 4140.

MUG 4104 Conducting 1 1-2 Credits
Grading Scheme: Letter Grade
Basic techniques of choral and instrumental conducting.
Prerequisite: professional performance jury, musicianship assessment jury.

MUG 4202 Choral Conducting and Materials 2 Credits
Grading Scheme: Letter Grade
Basic techniques of choral conducting, score analysis, interpretation and use of basic choral materials.
Prerequisite: MUG 4104.

MUG 4302 Instrumental Conducting and Materials 1-2 Credits
Grading Scheme: Letter Grade
Basic techniques of instrumental conducting, score analysis, interpretation and use of basic instrumental materials.
Prerequisite: MUG 4104.

MUH 2501 Introduction to World Musics 3 Credits
Grading Scheme: Letter Grade
Introduction to musics of non-western cultures in comparison with music of Western European civilizations; the nature of music and the realm of ethnomusicology. (H and N)
Attributes: General Education - Humanities, General Education - International

MUH 3025 Popular Music in the USA: From Ragtime to Hip-Hop and Beyond 3 Credits
Grading Scheme: Letter Grade
Survey of the musical styles, artists, audiences and eras of American popular music in relation to the social, cultural, political and historical contexts in which they emerged. Special attention is given to the diversity and intersecting nature of musical voices in the USA through the examination of musical styles including rock, rhythm and blues, country, punk, hip-hop, salsa and beyond. (H and D)
Attributes: General Education - Diversity, General Education - Humanities

MUH 3211 Music History Survey 1 3 Credits
Grading Scheme: Letter Grade
Survey of music literature, styles and techniques from antiquity to ca. 1600. Examines representative repertoire from historical, theoretical, and cultural contexts; develop critical thinking skills in reading and writing, analysis, and listening. (H and N) (WR)
Prerequisite: music major, MUT 1121 and MUT 1122 with minimum grades of C.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

MUH 3212 Music History Survey 2 3 Credits
Grading Scheme: Letter Grade
Survey of music literature, styles and techniques from ca. 1600 to ca. 1820. Examines representative repertoire from historical, theoretical, and cultural contexts; develop critical thinking skills in reading and writing, analysis and listening. (H and N) (WR)
Prerequisite: music majors, MUH 3211 or MUT 2127 with a minimum grade of C.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

MUH 3213 Music History Survey 3 3 Credits
Grading Scheme: Letter Grade
Survey of music literature, styles and techniques from ca. 1820 to the present. Examines representative repertoire from historical, theoretical and cultural contexts; develop critical skills in reading and writing, analysis and listening. (H) (WR)
Prerequisite: music majors, MUH 3211 and MUH 3212 with minimum grades of C, or coreq of MUT 2127.
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

MUH 3530 Popular and Traditional Musics of Africa 3 Credits
Grading Scheme: Letter Grade
A study of traditional and popular African musical styles placed within their historical, social and cultural environments. (H and N)
Prerequisite: MUH 2501 or written instructor permission.
Attributes: General Education - Humanities, General Education - International

MUH 3532 Music and Healing in Contemporary Africa 3 Credits
Grading Scheme: Letter Grade
Explores the historical role of music in healing traditions across African by exploring practices based around dance, religion, ritual and modern health care methodologies. Outlines the changing historical perspectives of Western rational thought on art-based practices, contextualizing contemporary approaches throughout the continent.
Prerequisite: ENC 1101 or instructor permission.

MUH 3541 Latin American Music 3 Credits
Grading Scheme: Letter Grade
The variable musical expressions of Latin America (including the Caribbean), their historical formations and social importance. (H and N)
Prerequisite: MUL 2010, MUH 3211 or written instructor permission.
Attributes: General Education - Humanities, General Education - International

MUH 3621 Jewish Art Music in Western Culture 3 Credits
Grading Scheme: Letter Grade
Cultural history of western art music inspired by Jewish subjects, Biblical and non-Biblical, composed by both Jewish and non-Jewish composers, and a survey of Jewish performing musicians from the Renaissance to the present. (H and N)
Prerequisite: written instructor permission.
Attributes: General Education - Humanities, General Education - International

MUH 4016 History of Jazz 3 Credits
Grading Scheme: Letter Grade
From African, Latin American and Black American sources through contemporary development. (H and N)
Attributes: General Education - Humanities, General Education - International

MUH 4930 Special Topics in Music History 3 Credits
Grading Scheme: Letter Grade
Rotating topics of current or special interest to students or instructors.
Prerequisite: written instructor permission.

MUL 2010 Experiencing Music 3 Credits
Grading Scheme: Letter Grade
Examines how we experience music and how it teaches us about ourselves and our world. Illuminates how music both shapes and is shaped by social, political, national, and cultural forces. Music from around the world demonstrates a variety of musical experiences within historical and contemporary cultural settings. (H and N)
Attributes: General Education - Humanities, General Education - International

MUL 3341 Baroque Literature 3 Credits
Grading Scheme: Letter Grade
Compositions of Monteverdi, Gabrieli, Schultz, Buxtehude, Bach, Handel and others.
Prerequisite: MUL 2010 or MUH 3211.

MUL 3693 The American Musical: Broadway and Beyond 3 Credits
Grading Scheme: Letter Grade
Provides non-music majors and music minors with an introduction to the history and development of the American musical, focusing on the genre's relationship to American culture and society. Topics include musical and dramatic features of specific works, principal creators and performers, commercialization and popularity, the genre's relationship to film, its role in the formation of America's national identity, and its communication of American values, attitudes and norms with regard to different cultures. (H)
Prerequisite: MUL 2010, MUL 2501 or instructor permission.
Attributes: General Education - Humanities

MUL 4334 Renaissance Literature 3 Credits
Grading Scheme: Letter Grade
Renaissance literature surveys the music from the period roughly 1430-1600, stressing the major genres of mass, motet, madrigal and chanson, and touching on less prominent regional practices and instrumental music. The music is placed into social and historical context. (H and N)
Prerequisite: MUL 2010 or MUH 3211.
Attributes: General Education - Humanities, General Education - International

MUL 4361 Romantic Literature 3 Credits
Grading Scheme: Letter Grade
Representative Romantic literature in such genres as the symphony, symphonic poem, opera, song, chamber music, piano music and sacred music. Composers from Beethoven through Mahler. (H and N)
Prerequisite: MUL 2010 or MUH 3211.
Attributes: General Education - Humanities, General Education - International

MUL 4371 Contemporary Literature 3 Credits
Grading Scheme: Letter Grade
Twentieth-century music literature, including works of Debussy, Ravel, Stravinsky, Schoenberg, Webern, Berg, Hindemith, Bartok, Copland, Sessions, Boulez and Stockhausen. (H and N)
Prerequisite: MUL 2010 or MUH 3211.
Attributes: General Education - Humanities, General Education - International

MUL 4400 Piano Literature Seminar 2-3 Credits
Grading Scheme: Letter Grade
A survey of piano literature from early keyboard works to the present.
Prerequisite: Music major to self-register.

MUL 4432 String Lit Seminar 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MUL 4441 Woodwind Literature Seminar 2 Credits
Grading Scheme: Letter Grade
An intensive, investigative study of representative repertoire for woodwind instruments.
Prerequisite: Music major to self-register.

MUL 4442 Brass Literature Seminar 2 Credits
Grading Scheme: Letter Grade
An intensive, investigative study of standard repertoire for brass instruments.
Prerequisite: Music major to self-register.

MUL 4460 Percussion Literature Seminar 2 Credits
Grading Scheme: Letter Grade
An intensive, investigative study of standard repertoire for solo percussion and percussion ensemble.
Prerequisite: professional performance jury and musicianship assessment jury.

MUL 4490 Organ Literature Seminar 2 Credits
Grading Scheme: Letter Grade
A survey of the major trends and styles of organ composition from the Renaissance to the present.
Prerequisite: professional performance jury and musicianship assessment jury.

MUL 4602 Song Literature Seminar 2-3 Credits
Grading Scheme: Letter Grade
The study and performance of representative literature for the voice from each style period.
Prerequisite: Music major to self-register.

MUL 4662 History and Literature of Opera 3 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

MUL 4801 The Music of J.S. Bach 3 Credits
Grading Scheme: Letter Grade
Offered in Miami only. The works of Bach with special emphasis on the historical sources of his choral and instrumental styles and detailed study of a selection of his chief works.
Prerequisite: MUL 2010 or MUH 3211.

MUL 4802 The Music of W.A. Mozart 3 Credits
Grading Scheme: Letter Grade
Offered in Miami only. The music, life and times of Mozart.
Prerequisite: MUL 2010 or MUH 3211.

MUN 1110 Marching Band 1 Credit
Grading Scheme: Letter Grade
Performance of marching band literature.

MUN 1120 Concert Band 1 Credit
Grading Scheme: Letter Grade
Performance of general and popular band literature. (H)
Attributes: General Education - Humanities

MUN 1130 Symphonic Band 1 Credit
Grading Scheme: Letter Grade
Performance of traditional and contemporary band literature. (H)
Prerequisite: audition.
Attributes: General Education - Humanities

MUN 1140 Wind Symphony 1 Credit
Grading Scheme: Letter Grade
Performance of wind ensemble literature. (H)
Prerequisite: audition.
Attributes: General Education - Humanities

MUN 1210 University Orchestra 1 Credit
Grading Scheme: Letter Grade
Standard orchestra literature. (H)
Prerequisite: conductor permission.
Attributes: General Education - Humanities

MUN 1310 University Choir 1 Credit
Grading Scheme: Letter Grade
An advanced choral group providing specialized study performance opportunities for vocally qualified students. (H)
Prerequisite: audition.
Attributes: General Education - Humanities

MUN 1320 Women's Chorale 1 Credit
Grading Scheme: Letter Grade
Vocal training and public performances of standard female chorus repertoire. (H)
Attributes: General Education - Humanities

MUN 1330 Men's Glee Club 1 Credit
Grading Scheme: Letter Grade
Vocal training and public performance of standard male chorus repertoire. (H)
Attributes: General Education - Humanities

MUN 1440 Percussion Ensemble 1 Credit
Grading Scheme: Letter Grade
The study and performance of ensemble literature for percussion instruments. (H)
Prerequisite: audition.
Attributes: General Education - Humanities

MUN 1460 Chamber Music Ensemble 1-3 Credits
Grading Scheme: Letter Grade
Examination and performance of standard repertoire for chamber ensembles.
Prerequisite: audition.

MUN 1491 Steel Drum Ensemble 1 Credit
Grading Scheme: Letter Grade
Prerequisite: conductor permission.

MUN 1710 Jazz Bands 1 Credit
Grading Scheme: Letter Grade
Standard and experimental jazz ensembles. A jazz laboratory. (H)
Attributes: General Education - Humanities

MUN 2800 World Music Ensemble 1 Credit
Grading Scheme: Letter Grade
The rehearsal and performance of folk and traditional musics of the world. (H)
Prerequisite: director permission.
Attributes: General Education - Humanities

MUN 3113 Marching Band 1 Credit
Grading Scheme: Letter Grade
Performance of marching band literature.

MUN 3123 Concert Band 1 Credit
Grading Scheme: Letter Grade
Performance of general and popular band literature. (H)
Attributes: General Education - Humanities

MUN 3133 Symphonic Band 1 Credit
Grading Scheme: Letter Grade
Performance of traditional and contemporary band literature.
Prerequisite: audition.

MUN 3143 Wind Symphony 1 Credit
Grading Scheme: Letter Grade
Performance of wind ensemble literature. (H)
Prerequisite: audition.
Attributes: General Education - Humanities

MUN 3213 University Orchestra 1 Credit
Grading Scheme: Letter Grade
Standard orchestra literature. (H)
Prerequisite: conductor permission.
Attributes: General Education - Humanities

MUN 3313 University Choir 1 Credit
Grading Scheme: Letter Grade
An advanced choral group providing specialized study performance opportunities for vocally qualified students. (H)
Prerequisite: audition.
Attributes: General Education - Humanities

MUN 3323 Women's Chorale 1 Credit
Grading Scheme: Letter Grade
Vocal training and public performances of standard female chorus repertoire. (H)
Attributes: General Education - Humanities

MUN 3333 Men's Glee Club 1 Credit
Grading Scheme: Letter Grade
Vocal training and public performance of standard male chorus repertoire. (H)
Attributes: General Education - Humanities

MUN 3343 University Chamber Singers 1 Credit
Grading Scheme: Letter Grade
Study and performance of early and contemporary vocal literature. (H)
Prerequisite: audition.
Attributes: General Education - Humanities

MUN 3443 Percussion Ensemble 1 Credit
Grading Scheme: Letter Grade
Attributes: General Education - Humanities

MUN 3454 Two Piano Literature 2 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

MUN 3463 Chamber Music 1-2 Credits
Grading Scheme: Letter Grade
Exploration of the assigned repertoire through weekly one-hour coaching sessions with the instructor, a minimum of three hours weekly of unsupervised group rehearsal and a final performance by each group on the class recital. Students will study the art of chamber music interpretation and performance and develop effective group rehearsal technique.
Prerequisite: by audition only in the first week of classes before the drop/add deadline.

MUN 3493 New Music Ensemble 1 Credit
Grading Scheme: Letter Grade
Rehearsal and performance of repertoire for small ensembles written in the 20th and 21st centuries.
Prerequisite: instructor permission.

MUN 3643 Musical Theatre Ensemble 1 Credit
Grading Scheme: Letter Grade
Offered in Miami only. Examination and performance of standard repertoire for the musical theatre.
Prerequisite: director permission.

MUN 3713 Jazz Bands 1 Credit
Grading Scheme: Letter Grade
Standard and experimental jazz ensembles. A jazz laboratory.

MUN 3714 Jazz Chamber Music 1 1 Credit
Grading Scheme: Letter Grade
Small group ensemble performance experience in the jazz idiom. Students will memorize jazz standards and learn melody interpretation techniques, rhythmic techniques to communicate to other members of the ensemble and small group compositional techniques for harmonizing jazz standards and original compositions.
Prerequisite: MUT 1362 with a minimum grade of B.

MUN 3803 World Music Ensemble 1 Credit
Grading Scheme: Letter Grade
The rehearsal and performance of folk and traditional musics of the world.
Prerequisite: director permission.

MUN 3813 Steel Drum Ensemble 1 Credit
Grading Scheme: Letter Grade

MUO 3503 Opera Workshop 1 Credit
Grading Scheme: Letter Grade
Study and performance of works from opera and operetta.
Prerequisite: director permission.

MUR 3104 Music and the Catholic Church 3 Credits
Grading Scheme: Letter Grade
Examines the music of the Catholic Church from historical and artistic perspectives and presents issues that have surrounded major changes in the church's music. Focuses on six historical periods in which the church was significantly focused on musical developments or changes. Views the music from various cultural perspectives, primarily U.S. and European. Requires online computer proficiency and high-speed Internet access. (H) (WR)
Attributes: General Education - Humanities, Satisfies 4000 Words of Writing Requirement

MUS 1010 Recital Attendance 0 Credits
Grading Scheme: S/U
Attendance at concerts and recitals. Students must check the school of music student's handbook for specific attendance requirements. (S-U)

MUS 1360 Introduction to Music Technology 2-3 Credits
Grading Scheme: Letter Grade
Introduction to word processing, internet, presentation, CD ROM, multimedia, music printing and music sequencing.

MUS 2211 English Diction 1 Credit
Grading Scheme: Letter Grade
An English diction course for singers and choral directors to improve their capacity to respond with ease, accuracy and expression.

MUS 2221 French Diction 1 Credit
Grading Scheme: Letter Grade
A French diction course for singers and choral directors to improve their capacity to respond with ease, accuracy and expression.

MUS 2231 German Diction 1 Credit
Grading Scheme: Letter Grade
A German diction course for singers and choral directors to improve their capacity to respond with ease, accuracy and expression.

MUS 2241 Italian Diction 1 Credit
Grading Scheme: Letter Grade
An Italian diction course for singers and choral directors to improve their capacity to respond with ease, accuracy and expression.

MUS 2931 Interdisciplinary Honors in Music 3 Credits
Grading Scheme: Letter Grade
Attributes: Satisfies 6000 Words of Writing Requirement

MUS 4203 Language and Diction for Singers 2 2 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

MUS 4204 Language and Diction for Singers 1 2 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

MUS 4905 Projects and Problems in Music 1-3 Credits
Grading Scheme: Letter Grade
Individual work in music and music education.

MUS 4910 Supervised Research 1-3 Credits
Grading Scheme: S/U
Individual guided research in music and music education. (S-U)

MUT 1001 Introduction to Music Theory Rudiments 2 Credits
Grading Scheme: Letter Grade
The study of notation, scales, intervals, triads, aural skills and keyboard skills.

MUT 1011 How Music Works 3 Credits
Grading Scheme: Letter Grade
Students gain an understanding of musics architecture on small and large scales. By learning both conceptual and applied approaches to rhythm, pitch and timbre, students prepare to analyze musical works from various times and places to be more informed, critical listeners and makers of music. Skills developed include notation, ear training and compositional techniques. (H)
Attributes: General Education - Humanities

MUT 1111 Music Theory 1 2 Credits
Grading Scheme: Letter Grade
Studies rhythms, intervals, motifs, phrases, melodies, chords and chord progressions, in the standard clefs through listening, playing, and writing. Chord study includes primary and secondary triads in root position and inversions, non-harmonic tones and seventh chords.
Prerequisite: Music Theory Placement Examination or MUT 1001

MUT 1112 Music Theory 2 2 Credits
Grading Scheme: Letter Grade
Rhythms, intervals, motifs, phrases, melodies, chords and chord progressions, in the standard clefs through listening, playing, singing and writing. Chord study includes primary and secondary triads in root position and inversions, non-harmonic tones and diatonic seventh chords.

MUT 1121 Theory of Music 1 3 Credits
Grading Scheme: Letter Grade
Rhythms, intervals, motifs, phrases, melodies, chords and chord progressions, in the standard clefs through listening, playing, singing and writing. Chord study includes primary and secondary triads in root position and inversions, non-harmonic tones and diatonic seventh chords.
Prerequisite: Music Theory Placement Examination or MUT 1001;
Corequisite: MVK 1111 or MVK 1112.

MUT 1122 Theory of Music 2 3 Credits
Grading Scheme: Letter Grade
Rhythms, intervals, motifs, phrases, melodies, chords and chord progressions, in the standard clefs through listening, playing, singing and writing. Chord study includes primary and secondary triads in root position and inversions, non-harmonic tones and diatonic seventh chords.
Prerequisite: Music Theory Placement Examination or MUT 1121 or equivalent;
Corequisite: MVK 1111 or MVK 1112.

MUT 1214 Jazz Aural Skills 1 1 Credit
Grading Scheme: Letter Grade
This course teaches students how to aurally recognize commercial chords, standard chord progressions and recognize the scales used in improvisation. This course is a hybrid course with only 7 in class meetings. The course utilizes online resources and instructional videos and online aural quizzes and weekly aural skills drills.
Prerequisite: MUT 1361 with a grade of B or higher.

MUT 1241L Aural Skills 1 1 Credit
Grading Scheme: Letter Grade
First of a sequence of four courses that develop skills in sight singing and ear training. Singing techniques are taught at the beginning of the course.

MUT 1242L Aural Skills 2 1 Credit
Grading Scheme: Letter Grade
Second of a sequence of four courses that develop skills in sight singing and ear training.
Prerequisite: MUT 1241L

MUT 1361 Jazz Fundamentals 1 2 Credits
Grading Scheme: Letter Grade
This course is fully online and provides a basic theoretical understanding of jazz harmony, jazz chord symbols, common jazz scales and modes, jazz articulations, blues forms and piano voicings. Online resources include online platform, flash cards, worksheets and 35 instructional videos.
Prerequisite: Jazz Theory Proficiency Exam with a score of B or higher.

MUT 1362 Jazz Fundamentals 2 2 Credits
Grading Scheme: Letter Grade
This course provides an intermediate theoretical understanding of jazz harmony, jazz chord symbols, common jazz scales and modes, jazz articulations, blues forms, piano voicings, the basics of tune writing and techniques in accurately memorizing jazz standards. Online resources include online platform, flash cards, worksheets and 35 instructional videos.
Prerequisite: MUT 1361 with a grade of B or higher.

MUT 2116 Music Theory 3 2 Credits
Grading Scheme: Letter Grade
Using Roman numerals, analyze harmonically the music of the common practice period; includes all harmonic materials studied to date such as Borrowed chords, Neapolitan 6th chords, and Augmented 6th chords. The study of forms from the 18th and 19th Centuries.

MUT 2117 Music Theory 4 2 Credits
Grading Scheme: Letter Grade
The study of the materials and structures of tonal and post-tonal music through reading, listening, model composition, and music analysis.

MUT 2126 Theory of Music 3 3 Credits
Grading Scheme: Letter Grade
Modulation, secondary dominants, diminished sevenths, Neapolitan and augmented sixth, chords of the ninth, eleventh, thirteenth, sight singing and dictation.
Prerequisite: MUT 1121;
Corequisite: MVK 2121 or MVK 2222.

MUT 2127 Theory of Music 4 3 Credits
Grading Scheme: Letter Grade
Modulation, secondary dominants, diminished sevenths, Neapolitan and augmented sixth, chords of the ninth, eleventh, thirteenth, sight singing and dictation.
Prerequisite: MUT 2126;
Corequisite: MVK 2121 or MVK 2222.

MUT 2246L Aural Skills 3 1 Credit
Grading Scheme: Letter Grade
Third of a sequence of four courses that develop skills in sight singing and ear training.
Prerequisite: MUT 1241L and MUT 1242L

MUT 2247L Aural Skills 4 1 Credit
Grading Scheme: Letter Grade
Fourth in a sequence of four courses that develop skills in sight singing and ear training.
Prerequisite: MUT 1241L, MUT 1242L, and MUT 2246L

MUT 2641 Jazz Improvisation 2 Credits
Grading Scheme: Letter Grade
Prerequisite: written instructor permission.

MUT 3321 Arranging for Voices and Instruments 3 Credits
Grading Scheme: Letter Grade
Study of voices and instruments, singly and by family, with basic scoring for standard ensemble combinations.
Prerequisite: professional performance jury and musicianship assessment jury.

MUT 3322 Scoring for Band and Orchestra 3 Credits
Grading Scheme: Letter Grade
Transcribing and arranging for full band and orchestra, including preparation of parts for performance.
Prerequisite: professional performance jury and musicianship assessment jury; MUT 3321.

MUT 3611 Form and Analysis 1 3 Credits
Grading Scheme: Letter Grade
Analysis of melodic structures and homophonic forms of the common practice period including binary, ternary, rondo and sonata-allegro forms.
Prerequisite: professional performance jury and musicianship assessment jury.

MUT 3612 Form and Analysis 2 3 Credits
Grading Scheme: Letter Grade
Analysis of contrapuntal forms of canon, motet and fugue; study of musical forms in the 20th century.
Prerequisite: MUT 3611.

MUT 4365 Jazz Arranging 1 2 Credits
Grading Scheme: Letter Grade
This course provides instruction in jazz composition and arranging as well as the basic techniques for commercial song writing. Students will study chord movement, melodic development and composition techniques for various styles of music. Students will complete several small group arrangements and original jazz compositions.
Prerequisite: MUT 1362 and MUT 2641 with minimum grades of B.

MUT 4366 Jazz Arranging 2 2 Credits
Grading Scheme: Letter Grade
This course provides instruction in jazz composition and arranging as well as the basic techniques for commercial song writing. Students will score a large group arrangement and a big band chart for eight brass, five saxophones and four rhythm section players.
Prerequisite: MUT 4365 with a minimum grade of B.

MUT 4401 Counterpoint 1 3 Credits
Grading Scheme: Letter Grade
Addresses the practice of two-voice counterpoint in Renaissance and Baroque styles with additional focus on historical context. Through composition, study, performance and listening, students gain fluency in both strict and free two-part counterpoint, compound melody, canon, antiphon and inventions.
Prerequisite: MUT 2126.

MUT 4402 Counterpoint 2 3 Credits
Grading Scheme: Letter Grade
Continues the study of counterpoint begun in MUT 4401, expanding two-voice composition and analysis into three and four voices. Straddling the late Renaissance and the Baroque, the techniques covered in this class prepare students to write and fully comprehend modal motets as well as tonal fugues. Through analysis, composition, study, performance and listening, students will gain competence in the strict techniques and idioms of multi-voiced imitative entrance, sequence and subject harmonization. Students will also familiarize themselves with Bach's The Well-Tempered Clavier both for its technical uses of counterpoint, exemplary and exceptional, and its historical significance. The course concludes with a brief excursion into the use of chromaticism in later contrapuntal styles.
Prerequisite: MUT 4401.

MUT 4411 Modal Counterpoint 3 Credits
Grading Scheme: Letter Grade
Free and strict counterpoint in the 16th century modal style through listening, reading, playing, singing and writing.
Prerequisite: professional performance jury and musicianship assessment jury.

MUT 4421 Tonal Counterpoint 3 Credits
Grading Scheme: Letter Grade
Counterpoint in the 18th-century style through listening, reading, playing, singing and writing.
Prerequisite: professional performance jury and musicianship assessment jury.

MUT 4601 Score Reading 2 Credits
Grading Scheme: Letter Grade
Score-reading at the keyboard. Exercises in realization of music in two or more staves and clefs, and involving instrumental transpositions.
Prerequisite: professional performance jury and musicianship assessment jury.

MUT 4663 Advanced Jazz Musicianship 2 Credits
Grading Scheme: Letter Grade
Instruction covers implementing jazz harmony, chord symbols, jazz scales and modes, jazz articulations, and techniques for accurately memorizing jazz standards. Lessons focus on implementing these concepts in jazz performances. This course uses the music of the blues, jazz standards, and contemporary music as "play along" tools.
Prerequisite: MUT 1362 with a grade of B or higher and instructor permission.

MVB 1411 Trumpet 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 1412 French Horn 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 1413 Trombone 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 1414 Euphonium 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 1415 Tuba 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 2421 Trumpet 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 2422 French Horn 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 2423 Trombone 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 2424 Euphonium 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 2425 Tuba 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 3431 Trumpet 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 3432 French Horn 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 3433 Trombone 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 3434 Euphonium 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 3435 Tuba 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 3970 Junior Recital 1 Credit
Grading Scheme: Letter Grade
All music majors in the Bachelor of Music program must present a public recital during their junior year. See areas of emphasis for specific requirements.
Prerequisite: Fine Arts students, music or music education majors

MVB 4441 Trumpet 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 4442 French Horn 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 4443 Trombone 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 4444 Euphonium 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 4445 Tuba 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVB 4640 Brass Instruments Pedagogy 3 Credits
Grading Scheme: Letter Grade
An analysis of the principles, methods and practices currently used in the teaching of brass instruments.
Prerequisite: Fine Arts students, music or music education majors

MVB 4971 Senior Recital 1 Credit
Grading Scheme: Letter Grade
All music performance majors must present a public recital during their senior year. See areas of emphasis for specific requirements.
Prerequisite: Fine Arts students, music or music education majors

MVK 1111 Secondary Piano 1 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: MUT 1001 and music majors.

MVK 1112 Secondary Piano 2 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: MVK 1111 and music majors.

MVK 1411 Piano 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 1412 Harpsichord 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 1413 Organ 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 1415 Carillon 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 2221 Secondary Piano 3 1-3 Credits
Grading Scheme: Letter Grade
This course is required of all music majors, with the exception of keyboard majors. Levels (3) and (4) may be exempted by examination.
Prerequisite: MVK 1112 and music majors.

MVK 2222 Secondary Piano 4 1-3 Credits
Grading Scheme: Letter Grade
This course is required of all music majors, with the exception of keyboard majors. Levels (3) and (4) may be exempted by examination.
Prerequisite: MVK 2221 and music majors.

MVK 2421 Piano 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 2422 Harpsichord 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 2423 Organ 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 2425 Carillon 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 3431 Piano 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 3432 Harpsichord 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 3433 Organ 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 3435 Carillon 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 3702 Accompanying 2 Credits
Grading Scheme: Letter Grade
Instrumental chamber music, song, orchestral reductions and editions.
Prerequisite: Fine Arts students, music or music education majors

MVK 3970 Junior Recital 1 Credit
Grading Scheme: Letter Grade
All music majors in the Bachelor of Music program must present a public recital during their junior year. See areas of emphasis for specific requirements.

MVK 4126 Improvisational Keyboard Skills and Related Technology 2 Credits
Grading Scheme: Letter Grade
Study of improvisational skills, electric keyboard technology, and musical styles outside of the classical realm.
Prerequisite: for upper-division and graduate keyboard majors/minors; instructor permission.

MVK 4441 Piano 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 4442 Harpsichord 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 4443 Organ 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Fine Arts students, music or music education majors

MVK 4600 Organ Pedagogy 3 Credits
Grading Scheme: Letter Grade
An analysis of the principles, methods and practices currently in the teaching of organ.
Prerequisite: Fine Arts students, music or music education majors

MVK 4640 Piano Pedagogy 3 Credits
Grading Scheme: Letter Grade
An analysis of the principles, methods and practices currently used in the teaching of piano.
Prerequisite: Fine Arts students, music or music education majors

MVK 4971 Senior Recital 1 Credit
Grading Scheme: Letter Grade
All music performance must present a public recital during the senior year. See areas of emphasis for specific requirements.
Prerequisite: Fine Arts students, music or music education majors

MVO 3970 Junior Recital 1 Credit
Grading Scheme: Letter Grade

MVP 1411 Percussion 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVP 2421 Percussion 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVP 3431 Percussion 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVP 3970 Junior Recital 1 Credit
Grading Scheme: Letter Grade
All music majors in the Bachelor of Music program must present a public recital during their junior year. See areas of emphasis for specific requirements.

MVP 4441 Percussion 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVP 4971 Senior Recital 1 Credit
Grading Scheme: Letter Grade
All music performance majors must present a public recital during the senior year. See areas of emphasis for specific requirements.

MVS 1411 Violin 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 1412 Viola 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 1413 Cello 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 1414 String Bass 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 1416 Guitar 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 2421 Violin 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 2422 Viola 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 2423 Cello 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 2424 String Bass 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 2426 Guitar 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 3431 Violin 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 3432 Viola 1-3 Credits
Grading Scheme: Letter Grade

MVS 3433 Cello 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 3434 String Bass 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 3436 Guitar 3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 3970 Junior Recital 1 Credit
Grading Scheme: Letter Grade
All music majors in the Bachelor of Music program must present a public recital during their junior year. See areas of emphasis for specific requirements.

MVS 4441 Violin 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 4442 Viola 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 4443 Cello 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 4444 String Bass 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 4446 Guitar 3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVS 4640 String Instrument Pedagogy 3 Credits
Grading Scheme: Letter Grade
An introduction to the teaching of basic string instrument techniques.
Prerequisite: MVS 2000 level.

MVS 4971 Senior Recital 1 Credit
Grading Scheme: Letter Grade
All music performance majors must present a public recital during their senior year. See areas of emphasis for specific requirements.

MVV 1411 Voice 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVV 2421 Voice 2 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVV 3431 Voice 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVV 3970 Junior Recital 1 Credit
Grading Scheme: Letter Grade
All music majors in the Bachelor of Music program must present a public recital during their junior year. See areas of emphasis for specific requirements.

MVV 4441 Voice 1-3 Credits
Grading Scheme: Letter Grade
Prerequisite: Music major to self-register.

MVV 4640 Vocal Pedagogy 1-3 Credits
Grading Scheme: Letter Grade
An analysis of various methods, principles and practices in the teaching of voice.
Prerequisite: MVV 2421.

MVV 4971 Senior Recital 1 Credit
Grading Scheme: Letter Grade
All music performance and church music majors must present a public recital during their senior year. See areas of emphasis for specific requirements.

MVW 1411 Flute 1-3 Credits
Grading Scheme: Letter Grade

MVW 1412 Oboe 1-3 Credits
Grading Scheme: Letter Grade

MVW 1413 Clarinet 1-3 Credits
Grading Scheme: Letter Grade

MVW 1414 Bassoon 1-3 Credits
Grading Scheme: Letter Grade

MVW 1415 Saxophone 1-3 Credits
Grading Scheme: Letter Grade

MVW 2421 Flute 2 Credits
Grading Scheme: Letter Grade

MVW 2422 Oboe 2 Credits
Grading Scheme: Letter Grade

MVW 2423 Clarinet 2 Credits
Grading Scheme: Letter Grade

MVW 2424 Bassoon 2 Credits
Grading Scheme: Letter Grade

MVW 2425 Saxophone 2 Credits
Grading Scheme: Letter Grade

MVW 3431 Flute 1-3 Credits
Grading Scheme: Letter Grade

MVW 3432 Oboe 1-3 Credits
Grading Scheme: Letter Grade

MVW 3433 Clarinet 1-3 Credits
Grading Scheme: Letter Grade

MVW 3434 Bassoon 1-3 Credits
Grading Scheme: Letter Grade

MVW 3435 Saxophone 1-3 Credits
Grading Scheme: Letter Grade

MVW 3970 Junior Recital 1 Credit
Grading Scheme: Letter Grade
All music majors in the Bachelor of Music program must present a public recital during their junior year. See areas of emphasis for specific requirements.

MVW 4441 Flute 1-3 Credits
Grading Scheme: Letter Grade

MVW 4442 Oboe 1-3 Credits
Grading Scheme: Letter Grade

MVW 4443 Clarinet 1-3 Credits
Grading Scheme: Letter Grade

MVW 4444 Bassoon 1-3 Credits
Grading Scheme: Letter Grade

MVW 4445 Saxophone 1-3 Credits
Grading Scheme: Letter Grade

MVW 4640 Woodwind Instruments Pedagogy 3 Credits
Grading Scheme: Letter Grade
An analysis of the principles, methods and practices currently used in the teaching of woodwind instruments.
Prerequisite: MVW 2000 level.

MVW 4971 Senior Recital 1 Credit
Grading Scheme: Letter Grade
All music performance majors must present a public recital during their senior year. See areas of emphasis for specific requirements.

Nuclear and Radiological Engineering

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

EGN 4912 Engineering Directed Independent Research 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

EGS 1005 Prep for Success 1-4 Credits
Grading Scheme: S/U
Freshman success course that includes academic preparation in calculus, chemistry, student success and technical communications. (S-U)
Prerequisite: EG student.

ENU 1000 Introduction to Nuclear Engineering 1 Credit
Grading Scheme: Letter Grade
Introduction to the nuclear engineering field and careers in the nuclear industry. Topics include engineering ethics, nuclear history, elementary nuclear and reactor physics, reactor types, nuclear safety, nuclear fuel cycle and radiation protection.

ENU 4001 Nuclear Engineering Analysis 1 4 Credits
Grading Scheme: Letter Grade
Four one-hour lectures discussing continuous and discrete variable solution methods for the statistical, algebraic, differential and integral equations important in nuclear engineering. Problems involving neutron, photon, fluid and temperature distributions in configuration, time and velocity are mathematically modeled, solved and interpreted.
Prerequisite: MAP 2302;
Corequisite: COP 2271.

ENU 4103 Reactor Analysis and Computation 1: Statics 4 Credits
Grading Scheme: Letter Grade
Three one-hour lectures discussing neutron reactions, fission chain and criticality and neutron transport/diffusion for nuclear reactors. Neutron thermalization and thermal scattering kernels. Dynamic analysis of reactors including point and space-time models. Feedback and reactor dynamics and control. Short-term transient analysis and long-term time-dependence.
Prerequisite: ENU 4001 and ENU 4605 with minimum grades of C.

ENU 4104 Reactor Analysis and Computation 2: Dynamics 3 Credits
Grading Scheme: Letter Grade
A continuation of ENU 4103. Three one-hour lectures discussing neutron thermalization and thermal scattering kernels. Treatment of resonances and Doppler broadening. Dynamic analysis of reactors including point model and space-time models. Feedback and reactor dynamics and control. Short-term transient analysis and long-term time dependence.
Prerequisite: ENU 4103.

ENU 4133 Reactor Thermal Hydraulics 1 3 Credits
Grading Scheme: Letter Grade
Fundamentals of thermodynamics, fluid mechanics and heat transfer with application to design and safety of nuclear power plants. Thermal hydraulic characteristics of nuclear power plants, energy conversion cycles, applications of first and second law of thermodynamics, nuclear heat generation, fluid mechanics, conservation laws and governing equations for inviscid and viscous single-phase flow, conduction and convection heat transfer and thermal design of fuel elements.
Prerequisite: EML 3100.

ENU 4134 Reactor Thermal Hydraulics 4 Credits
Grading Scheme: Letter Grade
Nuclear applications of fluid mechanics, heat transfer and thermodynamics. Two-phase flow and boiling heat transfer. Heat transfer mechanisms in reactor core and sub-channel thermal hydraulics. Steam generator, power cycles, and balance of plant. Introduction to thermal design for reactors.
Prerequisite: EML 4140 and (ENU 4133 or EGN 3353C).

ENU 4144 Nuclear Power Plant Reactor Systems 1 3 Credits
Grading Scheme: Letter Grade
Three one-hour lectures discussing the basis for light water reactor (LWR) design; the NRC design criteria for LWRs. Study of the major systems, components and performance characteristics of LWRs including fuels, primary and secondary coolant systems, emergency and auxiliary systems.
Prerequisite: EML 3100 and ENU 4605 and ENU 4001 with minimum grades of C.

ENU 4145 Risk Assessment for Radiation Systems 3 Credits
Grading Scheme: Letter Grade
Three one-hour lectures discussing the study of radiation management systems, including reliability and probabilistic risk assessment.
Prerequisite: ENU 4144 and STA 3032.

ENU 4191 Elements of Nuclear and Radiological Engineering Design 1 Credit
Grading Scheme: Letter Grade
The first of a two-course capstone design sequence. A one-hour lecture that provides preparatory work for ENU 4192. Identification of initial design project(s) and areas of work, selection/assignment of groups to areas of work/tasks, accumulation of reference materials and computer codes and development of initial timelines/milestones.
Prerequisite: ENU 4144;
Corequisite: ENU 4134, ENU 4612 and ENU 4630.

ENU 4192 Nuclear and Radiological Engineering Design 3 Credits
Grading Scheme: Letter Grade
Continuation of ENU 4191. Nuclear reactor theory and engineering as applied to design synthesis of reactors. Nuclear, material, thermo-fluid and/or mechanical design considerations of nuclear reactors with particular emphasis on design characteristics. Analytical methods and application of computer codes for design analysis and evaluation. Individual and/or group design involving integration of reactor neutronics, dynamics and control, thermal hydraulics, transient analysis and safety, power production, instrumentation, control, radiation shielding and protection, fuel cycle, fuel behavior and/or cost.
Prerequisite: ENU 4134 and ENU 4191 with a minimum grade of C and ENU 4612 and ENU 4630.
Corequisite: ENU 4641.

ENU 4194 Control of Nuclear Reactors and Power Plants 3 Credits
Grading Scheme: Letter Grade
Three one-hour lectures discussing the analysis of the control and dynamic characteristics of nuclear reactors, including the effects of feedback. Analysis of the control and dynamic characteristics of the integrated nuclear power plant.
Prerequisite: ENU 4104.

ENU 4505L Nuclear and Radiological Engineering Laboratory 1 3 Credits
Grading Scheme: Letter Grade
Two one-hour lectures discussing experimental procedures used in reactor operation, personnel monitoring, radiation detection devices and the statistics of nuclear counting systems. Also includes a four-hour laboratory experience that integrates practical applications of radiation sources, radiation interactions, radiation transport and radiation diction. (WR)
Prerequisite: ENU 4612.
Attributes: Satisfies 4000 Words of Writing Requirement

ENU 4605 Radiation Interactions and Sources 1 4 Credits
Grading Scheme: Letter Grade
Three one-hour lectures discussing interaction of ionizing radiation with matter; cross sections and radiation fields with emphasis on photons, heavy charged particles and electrons.

ENU 4606 Radiation Interactions and Sources 2 3 Credits
Grading Scheme: Letter Grade
Continuation of ENU 4605. Three one-hour lectures discussing the study of photon-charged particle and electron interactions with matter, attenuation, energy transfer and energy absorption in matter. X-ray production, accelerators and neutron sources, and applications in nuclear and radiological engineering.
Prerequisite: ENU 4001 with a minimum grade of C and ENU 4605.

ENU 4612 Nuclear Radiation Detection and Instrumentation 3 Credits
Grading Scheme: Letter Grade
Three one-hour lectures discussing the physics and electronics of radiation detection and instrumentation systems for application to nuclear energy, radiological sciences, radiation protection, medical physics and imaging, and industrial safety and control systems.
Prerequisite: ENU 4605 with a minimum grade of C and EEL 3003.

ENU 4612L Nuclear Radiation Detection and Instrumentation Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory experiments related to the physics and electronics of radiation detection and instrumentation systems for application to nuclear energy, radiological sciences, radiation protection, medical physics and imaging, and industrial safety and control systems.
Prerequisite: ENU 4605 with a minimum grade of C and EEL 3003;
Corequisite: ENU 4612.

ENU 4630 Fundamental Aspects of Radiation Shielding 3 Credits
Grading Scheme: Letter Grade
Three one-hour lectures discussing basic principles of radiation shielding. Study of radiation sources and shielding design for radiation facilities.
Prerequisite: ENU 4605 with a minimum grade of C.

ENU 4641C Applied Radiation Protection 2 Credits
Grading Scheme: Letter Grade
Two one-hour lectures of introduction to practical radiation protection techniques and practices, including laboratory experiences. Examination of pertinent regulations, current practice, ethics and instrumentation/measurement practices. Design of facilities and controls to optimize benefits of radiation applications and minimize exposure risks. (WR)
Prerequisite: ENU 4605 with a minimum grade of C and ENU 4630.
Attributes: Satisfies 2000 Words of Writing Requirement

ENU 4800 Introduction to Nuclear Reactor Materials 3 Credits
Grading Scheme: Letter Grade
Provides a comprehensive knowledge on the types of materials used in nuclear reactors, their response to the reactor environments and most of the materials problems encountered in the operation of nuclear power reactors for energy production.
Prerequisite: EMA 3010.

ENU 4905 Special Problems in Nuclear and Radiological Engineering 1-6 Credits
Grading Scheme: Letter Grade
Individually selected problems or projects in the students' major field of engineering study.
Prerequisite: department chair recommendation.

ENU 4906 Special Problems in Nuclear and Radiological Engineering Design 1-6 Credits
Grading Scheme: Letter Grade
Individually selected design problems or design projects in the student's major field of engineering study.
Prerequisite: department chair recommendation.

ENU 4930 Special Topics in Nuclear and Radiological Engineering 1-4 Credits
Grading Scheme: Letter Grade
Special courses covering selected topics in nuclear engineering.
Prerequisite: instructor permission.

ENU 4934 Fundamentals of Nuclear and Radiological Engineering 1 Credit
Grading Scheme: Letter Grade
Presentations and discussions on topics of current and continuing interest in nuclear engineering sciences.
Prerequisite: Nuclear Engineering major of junior standing or higher.

ENU 4944 Practical Work in Nuclear and Radiological Engineering 1-5 Credits
Grading Scheme: Letter Grade
Practical engineering work under industrial supervision, as set forth in the Herbert Wertheim College of Engineering regulations.

ENU 4949 Co-op Work Experience 1 Credit
Grading Scheme: S/U
Three-hour laboratory of practical engineering work under industrial supervision, as set forth in the Herbert Wertheim College of Engineering regulations. (S-U)
Prerequisite: 4EG classification and one term of industrial employment, including extra work according to a pre-approved outline.

ENV 4212 Nuclear Power Radioactive Waste Technology 3 Credits
Grading Scheme: Letter Grade
Characterization and description of low and high level radwastes, regulatory requirements and method of treatment. Transportation, burial and surveillance of radwaste. Decommissioning of nuclear facilities.
Prerequisite: refer to the department.

Nursing

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

NUR 2650 Transcultural Communications in Health Care Today 3 Credits
Grading Scheme: Letter Grade
Broadens the perceptions and understanding of health care beliefs and practices of specific cultural groups in the United States; fosters the development of essential communication skills and techniques necessary for effective multidisciplinary teams and culturally sensitive practice.
Attributes: Satisfies 2000 Words of Writing Requirement

NUR 3065C Comprehensive Health Assessment 3 Credits
Grading Scheme: Letter Grade
Examines comprehensive health assessment principles and techniques. Emphasizes the principles of assessment of health status of individuals across the lifespan and therapeutic communication.
Prerequisite: admission to the RN-BSN track.

NUR 3069C Communication and Health Assessment 3 Credits
Grading Scheme: Letter Grade
Examines therapeutic communication and health assessment principles and techniques. Focuses on development of therapeutic relationships and the use of general and specialized assessment skills as a basis for clinical decision making.
Prerequisite: admission to the college;
Corequisite: NUR 3129.

NUR 3123 Pathophysiology and Pharmacology 4 Credits
Grading Scheme: Letter Grade
Increases understanding of cellular physiology and alterations in structure and function resulting from the action of stressors on the human body at the cellular level.
Prerequisite: admission to RN-BSN track.

NUR 3129 Pathophysiology and Psychopathology 4 Credits
Grading Scheme: Letter Grade
Examines pathophysiology and psychopathology related to human illness within a systems framework. Focuses on presentation of selected pathophysiology and psychopathology and subsequent symptomatology in diverse clients across the lifespan.
Prerequisite: admission to upper-division BSN program.

NUR 3138 Systems of Care 1: Wellness Promotion and Illness Prevention 2 Credits
Grading Scheme: Letter Grade
Examines models of health in wellness promotion and illness prevention across the lifespan. Focuses on appraisal of risk and evidence-based reduction of risk.
Prerequisite: admission to upper-division BSN program;
Corequisite: NUR 3069C and NUR 3138L.

NUR 3138C Clinical Practice 1: Wellness Promotion and Illness Prevention 4 Credits
Grading Scheme: S/U
Provides clinical experience in the promotion of wellness and prevention of illness for diverse clients across the lifespan. Focuses on use of health education and counseling with clients in selected settings.
Prerequisite: admission to upper-division BSN program;
Corequisite: NUR 3069C and NUR 3138.

NUR 3145 Pharmacology for Nursing 3 Credits
Grading Scheme: Letter Grade
Examines the pharmacotherapeutic agents used in the treatment of illness and the promotion, maintenance and restoration of wellness in diverse individuals across the lifespan.
Prerequisite: NUR 3129 and NUR 3138;
Corequisite: AGR 4932.

NUR 3169 Inquiry and Evidence in Professional Nursing Practice 3 Credits
Grading Scheme: Letter Grade
Examines the processes required to translate and to integrate evidence into nursing practice.
Prerequisite: admission to upper-division BSN Program.

NUR 3638 Population Focused Care 2 Credits
Grading Scheme: Letter Grade
Examines strategies for wellness promotion, disease prevention and disaster management in communities and populations. Focuses on the impact of interventions that address health disparities in related populations.
Prerequisite: NUR 3138

NUR 3738 Systems of Care 2: Restoration of Wellness 3 Credits
Grading Scheme: Letter Grade
Examines the knowledge necessary to participate in development of plans of care for clients with common acute and chronic illnesses across the lifespan and for intrapartal women. Focuses on clients with a medium to high potential for wellness.
Prerequisite: NUR 3069C, NUR 3129 and NUR 3138;
Corequisite: NUR 3145.

NUR 3738C Clinical Practice 2: Restoration of Wellness 5 Credits
Grading Scheme: S/U
Provides laboratory and clinical experiences to provide nursing care for clients with common acute and chronic illnesses across the lifespan and for intrapartal women.
Prerequisite: NUR 3138;
Corequisite: NUR 3145, NUR 3169, NUR 3738 or NGR 6101.

NUR 3805 Professional Nursing in the Evolving Healthcare System 3 Credits
Grading Scheme: Letter Grade
Builds on initial nursing education to enhance professional development, prepare for a broader scope of practice, and provide deeper understanding of the cultural, political, economic, and social issues that affect clients and influence care delivery.
Prerequisite: admission to the RN-BSN track.

NUR 3816 Seminar in Professional Nursing 1 Credit
Grading Scheme: Letter Grade
Relates past nursing practice and current academic achievements to professional nursing role development.
Prerequisite: NUR 3123 and NUR 3826;
Corequisite: NUR 3197 and NUR 3169.

NUR 3825 Introduction to the Profession of Nursing 2 Credits
Grading Scheme: Letter Grade
Examines the framework for acculturation into professional nursing. Focuses on knowledge and understanding of the ANA Code of Ethics and the legal parameters governing nursing practice.
Prerequisite: admission to the college.

NUR 3826 Legal and Ethical Issues in Nursing 2 Credits
Grading Scheme: Letter Grade
Examines the legal issues and ethical dilemmas in nursing practice. Consequences of ethical misconduct and legal malpractice are explored. Focus is on case analysis of legal and ethical issues.
Prerequisite: junior standing in the college.

NUR 3946L Individual Clinical Practice 1-5 Credits
Grading Scheme: S/U
Additional opportunities for nursing practice. Objectives to be developed collaboratively by student and faculty. (S-U)
Prerequisite: 8 credits of 3000/4000-level nursing courses or instructor permission.

NUR 4635C Public Health Nursing 4 Credits
Grading Scheme: Letter Grade
Provides classroom and clinical experiences in population-focused nursing by examining strategies that promote wellness and disease prevention.
Prerequisite: NUR 3197 and NUR 3169;
Corequisite: NUR 4837.

NUR 4739 Systems of Care 3: Restoration of Wellness 4 Credits
Grading Scheme: Letter Grade
Examines the knowledge necessary to participate in development of plans of care for diverse clients with complicated acute and chronic illnesses across the lifespan. Focuses on the principles inherent in the care of clients whose complexity affects restoration to wellness.
Prerequisite: NUR 3738;
Corequisite: NUR 3826.

NUR 4739L Clinical Practice 3: Restoration of Wellness 4 Credits
Grading Scheme: S/U
Provides clinical experiences in the provision of healthcare for diverse clients with complicated acute and chronic illnesses and the application of population-focused care principles. Focuses on the evaluation of healthcare outcomes in individuals and groups with varied levels of acuity across the lifespan.
Prerequisite: NUR 3738;
Corequisite: NUR 3638, NUR 3826 and NUR 4739.

NUR 4748 Systems of Care 4: Multi-system Care 3 Credits
Grading Scheme: Letter Grade
Examines multi-system alterations in equilibrium across the lifespan. Focuses on synthesis of knowledge from multiple sources to influence client-centered outcomes.
Prerequisite: NUR 4739.

NUR 4748L Clinical Practice 4: Multi-system Care 3 Credits
Grading Scheme: S/U
Provides clinical experiences in the provision of healthcare for diverse clients with multi-system alterations in equilibrium and the application of population-focused care principles. Focuses on the delivery of holistic, safe and evidence-based healthcare for clients with multi-system illness.
Prerequisite: NUR 4739L;
Corequisite: NUR 4748.

NUR 4829 Leadership and Management in Nursing 2 Credits
Grading Scheme: Letter Grade
Examines leadership and management concepts used to address complex microsystem issues within selected healthcare organizations. Focuses on the interrelationship of selected roles within the context of specific theoretical frameworks and models of care.
Prerequisite: NUR 3826.

NUR 4837 Healthcare Policy, Finance, and Regulatory Environments 2 Credits
Grading Scheme: Letter Grade
Examines the foundations of healthcare policy, the financial structure of healthcare systems and the regulatory environments that impact nursing practice and client care. Focuses on the influence of the nursing profession on policy and regulation.
Prerequisite: senior standing.

NUR 4905 Individual Study 1-4 Credits
Grading Scheme: Letter Grade
Individual study. Qualified students may choose particular issues for study.
Prerequisite: 8 credits of 3000/4000-level nursing courses or instructor permission.

NUR 4930 Special Topics 1-3 Credits
Grading Scheme: Letter Grade
Prior to registration, students should contact the College of Nursing for special topics offered.
Prerequisite: 8 credits of 3000/4000-level nursing courses or instructor permission.

NUR 4935 Honors Seminar in Nursing 3 Credits
Grading Scheme: S/U
The honors seminar provides a unique and challenging experience for students who have exhibited exceptional academic ability to enhance the development of creativity and the ability to engage in scientific inquiry. (S-U)
Prerequisite: NUR 3168.

NUR 4944L Transition to Professional Practice 5 Credits
Grading Scheme: S/U
Provides opportunities to translate, integrate and apply available evidence to the care of clients. Focuses on the transition from student to entry-level professional nursing practice.
Prerequisite: senior standing;
Corequisite: NUR 4748, NUR 4748L, NUR 4829 and NUR 4837.

Occupational Therapy

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

OTH 3200C Applied Human Development 1 3 Credits
Grading Scheme: Letter Grade
Application to occupational therapy of principles of human growth and development, from infancy to adolescence.
Prerequisite: BSC 2007 or BSC 2005 or BSC 2010, APK 2105C, PSY 2012, STA 2023, majors/minors only and department permission.

OTH 3201 Applied Human Development 2 2 Credits
Grading Scheme: Letter Grade
Application to occupational therapy of principles of human growth and development, from young adulthood to senescence.
Prerequisite: BSC 2007 or BSC 2005 or BSC 2010, APK 2105C, PSY 2012, STA 2023, majors/minors only and department permission.

OTH 3282 Occupation and Participation Across Cultures 3 Credits
Grading Scheme: Letter Grade
Occupation is what we routinely do, incorporating activities that are life sustaining, purposeful and meaningful. The influence of occupation on health of persons with disabilities across cultures will be analyzed throughout the lifespan. Participation is an outcome concept involving engagement in activities like school, work and social life.
Prerequisite: PSY 2012 or instructor permission. Junior standing or higher recommended.

OTH 3413C Applied Kinesiology 3 Credits
Grading Scheme: Letter Grade
Biomechanics of movement, palpation, goniometry, manual muscle testing and motion analysis for occupational therapy.
Corequisite: OTH 4412, OTH 4412L, majors/minors only and department permission.

OTH 4412 Musculoskeletal Anatomy 3 Credits
Grading Scheme: Letter Grade
Comprehensive foundation in the human musculoskeletal system.
Prerequisite: HSC 3502, HSC 4558 and OTH 3416;
Corequisite: OTH 4412L and majors/minors only.

OTH 4412L Musculoskeletal Anatomy Laboratory 2 Credits
Grading Scheme: Letter Grade
Intensive laboratory study of the human musculoskeletal system.
Corequisite: OTH 4412 and majors/minors only.

OTH 4418 The Nervous System and Disorders 3 Credits
Grading Scheme: Letter Grade
Comprehensive foundation in neuroanatomy, neurophysiology and neuropathology.
Prerequisite: HSC 3502, HSC 4558 and OTH 3416;
Corequisite: OTH 4418L and majors/minors only.

OTH 4418L The Nervous System and Disorders Laboratory 2 Credits
Grading Scheme: Letter Grade
Intensive laboratory study, under supervision, of cadaver musculoskeletal anatomy.
Prerequisite: HSC 3502, HSC 4558 and OTH 3416;
Corequisite: OTH 4418 and majors/minors only.

Packaging Science

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

PKG 3001 Principles of Packaging 3 Credits
Grading Scheme: Letter Grade
Focuses on the materials, uses, functions and production processes of packaging. Topics include an industry overview and related applications as well as the historical, societal and technological drivers of packaging and how end-users decide on the product/package combination they use for their product and the impact these choices make on the product's market success.

PKG 3004 Packaging Materials 3 Credits
Grading Scheme: Letter Grade
Major packaging materials, properties, economics and applications. Addresses specific issues related to packaging composition and form.

PKG 3009 Consumer Products Packaging 3 Credits
Grading Scheme: Letter Grade
Covers packaging methods, materials, forms and strategies used for consumer products. Teams prepare a packaging plan with associated mock-ups for a proposed consumer product.

PKG 3010 Packaging, Society and the Environment 3 Credits
Grading Scheme: Letter Grade
Examines the evolution of modern society and its relationship to packaging technology, including real and assumed environmental concerns.

PKG 3103 Food Packaging 3 Credits
Grading Scheme: Letter Grade
Studies major technical, safety and legislative issues involved in modern food packaging practices. Includes the physical and chemical properties of food packaging materials and a survey of modern packaging techniques for various food types.
Prerequisite: CHM 2045. Fall.

PKG 4008 Distribution and Transport Packaging 3 Credits
Grading Scheme: Letter Grade
Studies containment, protection and preservation practices related to transporting and delivery of packages.

PKG 4011 Packaging Production and Processing 3 Credits
Grading Scheme: Letter Grade
Studies operations and machinery used in modern packaging lines. Topics include high-speed forming, filling, sealing, labeling, check weighing, inspection, coding, palletizing and shipping.

PKG 4101C Computer Tools for Packaging 3 Credits
Grading Scheme: Letter Grade
Studies the computer tools applicable to the packaging industry. Topics include label design, bar code technology, spreadsheet programming, 3D package design and distribution efficiency analysis.

PKG 4204C Package Decoration 3 Credits
Grading Scheme: Letter Grade
Presents major decoration methods used for packaging. Specific laboratory team projects prepare and execute the decoration of a cylindrical package or container from concept to a decorated item.

PKG 4905 Individual Work in Packaging Engineering 1-6 Credits
Grading Scheme: Letter Grade
Selected problems or projects enhance knowledge of packaging engineering related topics.

PKG 4932 Special Topics in Packaging Engineering 1-6 Credits
Grading Scheme: Letter Grade
Lectures, laboratory, and/or special projects.

PKG 4941 Work Experience in Packaging Engineering 1-3 Credits
Grading Scheme: S/U
Work experience in the packaging science industry. (S-U)

Pest Management | Plant Protection

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The crop science departments and the supporting disciplines of entomology-nematology, plant sciences, plant pathology and forest resources and conservation offer the following general and cross-department courses in pest management.

Refer to Agricultural Operations Management for AOM 3333 Pesticide Application and Agricultural General for AGG 5505 Plant Protection in Tropical Ecosystems.

Courses

IPM 3022 Fundamentals of Pest Management 3 Credits
Grading Scheme: Letter Grade

PMA 4570C Field Techniques in IPM 2 Credits
Grading Scheme: Letter Grade
Prerequisite: IPM 3022.

Pharmacy

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

PHA 3931 Honors Seminar in Pharmaceutical Research: In Search of Magic Bullets 3 Credits
Grading Scheme: Letter Grade
Overview of the issues associated with pharmaceutical research: drug discovery process, clinical research, drug tragedies, government laws and regulations, pharmaceutical care and drug efficacy versus risk. In addition, specific drug research by pharmacy faculty is presented and discussed. (WR)
Prerequisite: honors program only.
Attributes: Satisfies 6000 Words of Writing Requirement

PHA 4910 Undergraduate Research in Pharmaceutical Outcomes and Policy 0-3 Credits
Grading Scheme: S/U
Specific research projects in pharmacy are completed during a semester under the supervision of a pharmacy faculty member. (S-U)

PHA 4911 Undergraduate Research in Pharmacodynamics 0-3 Credits
Grading Scheme: S/U
Specific research projects in pharmacy are completed during a semester under the supervision of a pharmacy faculty member. (S-U)

PHA 4912 Undergraduate Research in Pharmaceutics 0-3 Credits
Grading Scheme: S/U
Specific research projects in pharmacy are completed during a semester under the supervision of a pharmacy faculty member. (S-U)

PHA 4913 Undergraduate Research in Medicinal Chemistry 0-3 Credits
Grading Scheme: S/U
Specific research projects in pharmacy are completed during a semester under the supervision of a pharmacy faculty member. (S-U)

PHA 4914 Undergraduate Research in Pharmacotherapy and Translational Research 0-3 Credits
Grading Scheme: S/U
Specific research projects in pharmacy are completed during a semester under the supervision of a pharmacy faculty member. (S-U)

PHA 4933 Selected Topics in Pharmacy 1-3 Credits
Grading Scheme: Letter Grade
Undergraduates work on a project or complete a term paper under the supervision of a pharmacy faculty member.
Prerequisite: instructor permission.

Philosophy

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

HPS 3003 Perspectives on Science and Mathematics 3 Credits
Grading Scheme: Letter Grade
Explores the different ways that scientists and mathematicians since the 17th century have explained the workings of the natural world. (H) (WR)
Prerequisite: UFTeach Step 1.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

PHH 3100 Ancient Greek Philosophy 3 Credits
Grading Scheme: Letter Grade
Sustained study of Plato and Aristotle with some consideration of pre-Socratic antecedents and Hellenistic successors. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

PHH 3111 Ancient Ethical and Political Thought 3 Credits
Grading Scheme: Letter Grade
Examines ancient Greek and Roman political theories and their ethical foundations. (H)
Attributes: General Education - Humanities

PHH 3200 Medieval Philosophy 3 Credits
Grading Scheme: Letter Grade
Surveys medieval philosophy. Philosophers to be read may include Augustine, Boethius, Anselm, Maimonides, Aquinas, Duns Scotus and Ockham. Topics include the nature of God, universals, individuation and future contingents.
Prerequisite: one course in philosophy.

PHH 3400 Modern Philosophy 3 Credits
Grading Scheme: Letter Grade
Surveys the work of major philosophers of the 17th and 18th centuries, from Descartes to Kant, in the primary texts. (H)
Attributes: General Education - Humanities

PHH 3610 Happiness and Well-Being 3 Credits
Grading Scheme: Letter Grade
Examines major philosophical theories of human happiness and well-being from both historical and contemporary perspectives. Topics may include self-interest, pleasure, subjective vs. objective conceptions of happiness, autonomy and the relation between morality and happiness.
Prerequisite: sophomore or higher standing or PHI 2010 or PHI 2100 or PHI 2630 or PHM 2204 or philosophy major or minor or instructor permission.

PHH 4141 Seminar in Ancient Philosophy 3 Credits
Grading Scheme: Letter Grade
Variable topic seminar focusing on a particular topic, period or school in the philosophy of Greco-Roman antiquity.
Prerequisite: a 3000-level philosophy course or department permission.

PHH 4420 Seminar in Modern Philosophy 3 Credits
Grading Scheme: Letter Grade
Variable topic seminar focusing on a period, school or topic in 17th or 18th century philosophy.
Prerequisite: a 3000-level philosophy course or department permission.

PHH 4644 Continental Philosophy 3 Credits
Grading Scheme: Letter Grade
Studies selected works by 19th and 20th century continental philosophers, with emphasis determined by the instructor. Selections may include such thinkers as Hegel, Nietzsche, Heidegger, and Foucault.
Prerequisite: a 3000-level course with the prefix PHI, PHH, PHM, or PHP.

PHH 4911 Undergraduate Research in History of Philosophy 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

PHH 4930 Seminar in a Major Philosopher 3 Credits
Grading Scheme: Letter Grade
Variable topic seminar on the work of a major historical or contemporary philosopher such as Plato, Aristotle, Aquinas, Descartes, Hobbes, Leibniz, Spinoza, Berkeley, Hume, Rousseau, Kant, Hegel, Mill, Marx, Nietzsche, Husserl, Heidegger, Russell, Moore, Sartre, Wittgenstein and Quine.
Prerequisite: a 3000-level philosophy course or department permission.

PHI 2010 Introduction to Philosophy 3 Credits
Grading Scheme: Letter Grade
Variable topics introduction to philosophy through study of traditional questions about the existence of God, the nature of the mind, the definition of good, freedom of the will, and criteria of truth and knowledge. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

PHI 2100 Logic 3 Credits
Grading Scheme: Letter Grade
Introductory-level survey of different methods of formal and informal analysis of the logical structure of propositions and arguments. Topics include syllogistic logic, propositional logic, quantification logic, inductive logic, informal fallacies, and probability. (M)
Attributes: General Education - Mathematics

PHI 2630 Contemporary Moral Issues 3 Credits
Grading Scheme: Letter Grade
Introduces moral philosophy through selected contemporary issues such as abortion, euthanasia, genetic engineering, and the treatment of animals. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

PHI 3114 Reasoning 3 Credits
Grading Scheme: Letter Grade
Practical methods for understanding reasoned argumentation; instruction in the use of diagrammatic techniques to develop both interpretations and criticisms of philosophical arguments as well as in the application of these techniques in the writing of critical essays on a range of philosophical topics.
Prerequisite: sophomore or higher standing or (PHI 2010 or PHI 2100 or PHI 2630 or PHM 2204 with a minimum grade of C) or (philosophy major or philosophy minor) or instructor permission.

PHI 3130 Symbolic Logic 3 Credits
Grading Scheme: Letter Grade
Systematic study of forms of deduction. Techniques and topics include truth-functional analysis and quantification. (M)
Attributes: General Education - Mathematics

PHI 3300 Theory of Knowledge 3 Credits
Grading Scheme: Letter Grade
Studies the central topics and concepts of the theory of knowledge, including the analysis of the concepts of knowledge, truth, justification and related concepts, the nature of empirical knowledge, the problem of skepticism, the nature of a priori knowledge, and the structure of the justification of our beliefs. (H)
Attributes: General Education - Humanities

PHI 3400 Philosophy of Natural Science 3 Credits
Grading Scheme: Letter Grade
Studies central contemporary issues in the philosophy of natural science: the nature of laws, the logic of discovery and the relationships between different sciences. The sciences used for illustration vary with the instructor. (H)
Attributes: General Education - Humanities

PHI 3420 Philosophy of the Social Sciences 3 Credits
Grading Scheme: Letter Grade
Studies the possibility of social laws, the nature of social explanation and rationality, and the role of value judgments in social-scientific research. (H)
Attributes: General Education - Humanities

PHI 3459 Medicine and Philosophy 3 Credits
Grading Scheme: Letter Grade
Examines areas in which medicine and philosophy overlap, including philosophy of science as applied to medical research, ethical theories as applied to medical cases, and moral reflection on the institution of medicine. Provides information about contemporary medical practice and research as well as tools for their critical assessment.
Prerequisite: sophomore or higher standing or PHI 2010 or PHI 2100 or PHI 2630 or PHM 2204 or philosophy major or minor or instructor permission.

PHI 3500 Metaphysics 3 Credits
Grading Scheme: Letter Grade
Studies the problems of first philosophy: the concepts of existence, essence, object, property and event; universals and particulars; the nature of change, possibility, causation, space and time. Traditional philosophical issues such as free will, the mind/body problem, personal identity and the existence of abstract entities (e.g., numbers) are discussed as are views of realism, idealism, materialism and relativism. (H)
Attributes: General Education - Humanities

PHI 3501 Free Will 3 Credits
Grading Scheme: Letter Grade
Sustained examination of key questions about free will. What exactly does it take for an action to be performed freely? Do scientific results threaten free will? What case can be made for the existence of free will? What are the consequences if free will does not exist?
Prerequisite: sophomore or higher standing or PHI 2010 or PHI 2100 or PHI 2630 or PHM 2204 or philosophy major or minor or instructor permission.

PHI 3551 Thought Experiments 3 Credits
Grading Scheme: Letter Grade
Much philosophical work depends on thought experiments in which we evaluate merely hypothetical situations; examine several such experiments to gain insight about their general character and proper use. Cases may include Descartes' "evil genius," Searle's "Chinese Room" example, and Gettier's examples of true, justified belief without knowledge.
Prerequisite: sophomore or higher standing or PHI 2010 or PHI 2100 or PHI 2630 or PHM 2204 or philosophy major or minor or instructor permission.

PHI 3553 The Self, Reason and Ethics 3 Credits
Grading Scheme: Letter Grade
Examines rationality, morality, and personhood. What does it mean to be the same person over time? How is personal identity related to the rationality of self-interest or the rationality of morality? Topics may include the nature of reasons, self-undermining theories, reductionism about people, population ethics, and more.
Prerequisite: sophomore or higher standing or PHI 2010 or PHI 2100 or PHI 2630 or PHM 2204 or philosophy major or minor or instructor permission.

PHI 3633 Bioethics 3 Credits
Grading Scheme: Letter Grade
The ethical issues that arise in medicine and biotechnology.

PHI 3641 Conduct, Change and Consequences: Making Ethical Decisions 3 Credits
Grading Scheme: Letter Grade
Grounding in ethical theory and moral reasoning with a focus on changes at both organizational and societal levels, including, for instance, technological innovations, new business practices and legal changes. Examines the rights and responsibilities of those making such changes as well as the conditions that facilitate responsible decision making. (H, WR4)
Prerequisite: sophomore or higher standing or PHI 2010 or PHI 2100 or PHI 2630 or PHM 2204 or philosophy major or minor or innovation academy minor or instructor permission.
Attributes: General Education - Humanities, Satisfies 4000 Words of Writing Requirement

PHI 3650 Moral Philosophy 3 Credits
Grading Scheme: Letter Grade
Analysis and criticism of various normative ethical theories such as egoism, utilitarianism, Kantianism, deontology and virtue ethics. (H)
Attributes: General Education - Humanities

PHI 3693 Ethics of Communication 3 Credits
Grading Scheme: Letter Grade
Examines ethical issues in communication between individuals and in the media. Topics include truth-telling, misrepresentation, privacy and fairness. (H)
Attributes: General Education - Humanities

PHI 3695 Philosophy and Death 3 Credits
Grading Scheme: Letter Grade
A philosophical investigation of the nature and significance of death. Focuses on critical assessment of arguments regarding such topics as the definition of death, whether death is bad for the deceased, whether immortality is desirable or even conceivable, and the ethics of ending and starting lives. (H)
Prerequisite: sophomore or higher standing or PHI 2010 or PHI 2100 or PHI 2630 or PHM 2204 or philosophy major or minor or instructor permission.
Attributes: General Education - Humanities

PHI 3700 Philosophy of Religion 3 Credits
Grading Scheme: Letter Grade
Studies problems in philosophical theology, including the nature of God, arguments for God's existence, the problem of evil and the relation between faith and reason, from both historical and contemporary perspectives. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

PHI 3930 Special Topics 3 Credits
Grading Scheme: Letter Grade
Check the department office for a course description for the offered term.

PHI 4220 Philosophy of Language 3 Credits
Grading Scheme: Letter Grade
Variable topics study the major topics and concepts of the philosophy of language, including truth and meaning, speech act theory, reference and descriptions, names and demonstratives, propositional attitudes and indirect discourse, the nature of language and metaphor.
Prerequisite: a 3000-level philosophy course or department permission.

PHI 4320 Philosophy of Mind 3 Credits
Grading Scheme: Letter Grade
Studies the central problems of the philosophy of mind, including the mind-body problem, the nature of mental states, intentionality and representation, and sensation and consciousness.
Prerequisite: a 3000-level philosophy course or department permission.

PHI 4542 Philosophy of Space and Time 3 Credits
Grading Scheme: Letter Grade
Studies the nature of space and time: the concepts of substantival space and time (or space-time), relational space and time (or space-time), dynamical space-time, conventional space-time metrics, causal reduction of time, time's arrow, dimensionality of space (or space-time). The approach, historical or issue-oriented, and the required amount of knowledge of physics varies with the instructor.
Prerequisite: a 3000-level philosophy course or department permission.

PHI 4662 Ethical Theory 1 3 Credits
Grading Scheme: Letter Grade
Advanced topics in moral theory, including cognitivism, obligations and permissions, moral reasons and moral epistemology.
Prerequisite: a 3000-level philosophy course or department permission.

PHI 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Registration requires advance application to the undergraduate coordinator.
Prerequisite: upper-division students with 12 credits of philosophy and department permission.

PHI 4911 Undergraduate Research in Philosophy 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

PHI 4912 Honors Project 3 Credits
Grading Scheme: Letter Grade
Open to qualified philosophy majors upon application to the undergraduate coordinator.

PHI 4930 Special Topics 3 Credits
Grading Scheme: Letter Grade
Refer to the department website for a course description for the offered term.
Prerequisite: a 3000-level philosophy course or department permission.

PHI 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

PHM 2204 Social Issues and Political Thought 3 Credits
Grading Scheme: Letter Grade
Introduces the classic works in the fundamental issues of political philosophy. Topics include comparative systems, authority and freedom. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

PHM 3032 Ethics and Ecology 3 Credits
Grading Scheme: Letter Grade
Normative study of the relationships between human beings and the environment, with special emphasis on land and resources. (H)
Attributes: General Education - Humanities

PHM 3123 Feminist Philosophy 3 Credits
Grading Scheme: Letter Grade
Analyzes theoretical and practical issues in feminism such as radical, liberal and socialist perspectives, gender roles and equal opportunity; an elective in the women's studies program. (H and D)
Attributes: General Education - Diversity, General Education - Humanities

PHM 3127 Race and Philosophy 3 Credits
Grading Scheme: Letter Grade
Examines the concept of race and how it has been used, both theoretically and practically, looking at both historical and contemporary works. Topics may include the definition of "race", the political use and abuse of the term, and its role in one's sense of identity.

PHM 3202 Political Philosophy 3 Credits
Grading Scheme: Letter Grade
Studies philosophical problems of political freedom, justice, obligation and coercion. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

PHM 3400 Introduction to Philosophy of Law 3 Credits
Grading Scheme: Letter Grade
Introduces philosophical issues in legal thought and practice; for pre-law majors and serves as an introduction to PHM 4440 Philosophy of Law, the course introduces the types of philosophical issues that the major schools of legal thought have attempted to resolve. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

PHM 3600 Philosophy of Education 3 Credits
Grading Scheme: Letter Grade
Examines questions about the nature, value, and proper role of education, with special attention to schooling in wealthy modern democracies. Topics may include the purposes of education, the value of having an education, educational authority, the distribution of educational opportunity, and the special role of higher education. (H)
Prerequisite: sophomore or higher standing or PHI 2010 or PHI 2100 or PHI 2630 or PHM 2204 or philosophy major or minor.
Attributes: General Education - Humanities

PHP 3786 Existentialism 3 Credits
Grading Scheme: Letter Grade
Examines the existentialist movement in philosophy through readings from such figures as Kierkegaard, Nietzsche and Sartre. (H)
Attributes: General Education - Humanities

PHP 4784 Analytic Philosophy 3 Credits
Grading Scheme: Letter Grade
Studies the major philosophers, themes and developments of the analytic tradition, from Frege, Russell, Moore and Wittgenstein to Quine, Austin and contemporary figures.
Prerequisite: a 3000-level philosophy course or department permission.

REL 4177 Special Topics in Religion and Ethics 3 Credits
Grading Scheme: Letter Grade
Special topics in religion and ethics. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

Physics

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Courses

IDH 3931 Interdisciplinary Junior Honors 1-3 Credits
Grading Scheme: Letter Grade
Special topics restricted to those in the university-wide honors program. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

ISC 2400L Cross-Disciplinary Laboratory 1 3 Credits
Grading Scheme: Letter Grade
First course in a two-semester inquiry-based laboratory focusing on major themes and concepts in biology, chemistry and physics with an emphasis on their integrated applications in modern, quantitative research. Satisfies course requirements for BSC 2010L, CHM 2045L and PHY 2053L.
Prerequisite: high school algebra or equivalent. Degree-seeking students only.

ISC 2401L Cross-Disciplinary Laboratory 2 3 Credits
Grading Scheme: Letter Grade
Second course in a two-semester inquiry-based laboratory focusing on major themes and concepts in biology, chemistry and physics with an emphasis on their integrated applications in modern, quantitative research. Satisfies course requirements for BSC 2011L, CHM 2046L and PHY 2054L.
Prerequisite: ISC 2400L and MAC 1147 or equivalent;
Corequisite: BSC 2010 and CHM 2045 or CHM 2047 or CHM 2095.

ISC 3523C Research Methods 3 Credits
Grading Scheme: Letter Grade
The tools scientists use to solve scientific problems, including use of experiments to answer scientific questions, design of experiments to reduce systematic and random errors, use of statistics to interpret experimental results and deal with sampling errors, mathematical modeling of scientific phenomena and oral presentation of scientific work.
Prerequisite: UFTeach Step 1 and one year of college biology, chemistry or physics.

MET 1010 Introduction to Weather and Climate 3 Credits
Grading Scheme: Letter Grade
A course for non-science students interested in understanding the phenomena of daily weather. Several principles of physics are introduced. (P)
Prerequisite: high school algebra.
Attributes: General Education - Physical Science

PHY 1033C Discovering Physics 3 Credits
Grading Scheme: Letter Grade
The fundamental concepts of physics that shape a scientist's view of the laws of nature. A laboratory experience is included to emphasize the importance of measurement for the testing of scientific hypotheses. (P)
Attributes: General Education - Physical Science

PHY 2004 Applied Physics 1 3 Credits
Grading Scheme: Letter Grade
Emphasizes the practical applications of basic physics to a range of professions, including architecture, agricultural sciences, building construction and forest resources. Mechanics of motion, forces, energy, momentum, wave motion and heat. (P)
Prerequisite: algebra and trigonometry.
Attributes: General Education - Physical Science

PHY 2004L Laboratory for Applied Physics 1 1 Credit
Grading Scheme: Letter Grade
Laboratory experience illustrating the practical applications of basic physics, including the mechanics of motion, forces, energy, momentum, wave motion and heat. (P)
Corequisite: PHY 2004.
Attributes: General Education - Physical Science

PHY 2005 Applied Physics 2 3 Credits
Grading Scheme: Letter Grade
Continuation of the applied physics sequence. Electric and magnetic fields; geometrical, wave and applied optics; and modern and nuclear physics. (P)
Prerequisite: PHY 2004.
Attributes: General Education - Physical Science

PHY 2005L Laboratory for Applied Physics 2 1 Credit
Grading Scheme: Letter Grade
Laboratory experience illustrating the practical applications of electric and magnetic fields geometrical, wave and applied optics; and modern and nuclear physics. (P)
Corequisite: PHY 2005.
Attributes: General Education - Physical Science

PHY 2020 Introduction to Principles of Physics 3 Credits
Grading Scheme: Letter Grade
Fundamental principles of physics in mechanics, electricity and modern physics as applied to conservation laws. An in-depth analysis of selected topics with lecture demonstration, films and other teaching aids. (P)
Prerequisite: high school algebra and trigonometry or the equivalent.
Attributes: General Education - Physical Science

PHY 2048 Physics with Calculus 1 3 Credits
Grading Scheme: Letter Grade
The first of a two-semester sequence of physics for scientists and engineers. The course covers Newtonian mechanics and includes motion, vectors, Newton's laws, work and conservation of energy, systems of particles, collisions, equilibrium, oscillations and waves. (P)
Prerequisite: high-school physics, PHY 2020 or the equivalent, and MAC 2311.
Corequisite: MAC 2312.
Attributes: General Education - Physical Science

PHY 2048L Laboratory for Physics with Calculus 1 1 Credit
Grading Scheme: Letter Grade
Laboratory experience for PHY 2048 illustrating the practical applications of Newtonian mechanics. (P)
Prerequisite: Degree-seeking students only.
Corequisite: PHY 2048 or the equivalent.
Attributes: General Education - Physical Science

PHY 2049 Physics with Calculus 2 3 Credits
Grading Scheme: Letter Grade
The second of a two-semester sequence of physics for scientists and engineers. Content includes Coulomb's law, electric fields and potentials, capacitance, currents and circuits, Ampere's law, Faraday's law, inductance, Maxwell's equations, electromagnetic waves, ray optics, interference and diffraction. (P)
Prerequisite: PHY 2048 and MAC 2312;
Corequisite: MAC 2313.
Attributes: General Education - Physical Science

PHY 2049L Laboratory for Physics with Calculus 2 1 Credit
Grading Scheme: Letter Grade
Laboratory experience for PHY 2049 illustrating the practical applications of Coulomb's law, electric fields and potentials, capacitance, currents and circuits, Ampere's law, Faraday's law, inductance, Maxwell's equations, electromagnetic waves, ray optics, interference and diffraction. (P)
Prerequisite: Degree-seeking students only.
Corequisite: PHY 2049 or the equivalent.
Attributes: General Education - Physical Science

PHY 2053 Physics 1 4 Credits
Grading Scheme: Letter Grade
First semester of introductory physics de-emphasizing calculus. Structure and properties of matter; kinematics, dynamics and statics; momentum and energy; rotation, elasticity; vibration; fluids; temperature and expansion, heat transfer, thermal behavior of gases; wave motion and sound. (P)
Prerequisite: high school algebra and trigonometry, or the equivalent. Degree-seeking students only.
Attributes: General Education - Physical Science

PHY 2053L Laboratory for Physics 1 1 Credit
Grading Scheme: Letter Grade
Laboratory experience for PHY 2053 illustrating the practical applications of the structure and properties of matter; kinematics, dynamics and statics; momentum and energy; rotation, elasticity; vibration; fluids; temperature and expansion, heat transfer, thermal behavior of gases; wave motion and sound. (P)
Corequisite: PHY 2053 or the equivalent. Degree-seeking students only.
Attributes: General Education - Physical Science

PHY 2054 Physics 2 4 Credits
Grading Scheme: Letter Grade
Second semester of introductory physics de-emphasizing calculus. Electric charge, fields and circuits; electromagnetism, applied electricity; geometrical optics, wave optics, applied optics; electrons and photons; atoms and nuclei. (P)
Prerequisite: PHY 2053 or the equivalent. Degree-seeking students only.
Attributes: General Education - Physical Science

PHY 2054L Laboratory for Physics 2 1 Credit
Grading Scheme: Letter Grade
Laboratory experience for PHY 2054 illustrating the practical applications of electric charge, fields and circuits; electromagnetism, applied electricity; geometrical optics, wave optics, applied optics; electrons and photons; atoms and nuclei. (P)
Corequisite: PHY 2054 or the equivalent. Degree-seeking students only.
Attributes: General Education - Physical Science

PHY 2060 Enriched Physics with Calculus 1 3 Credits
Grading Scheme: Letter Grade
First of the enriched sequence for physics majors and others wishing a deeper understanding of mechanics, kinematics, conservation laws, harmonic motion, central forces and special relativity. (P)
Prerequisite: Degree-seeking students only;
Corequisite: MAC 2312 or the equivalent.
Attributes: General Education - Physical Science

PHY 2061 Enriched Physics with Calculus 2 3 Credits
Grading Scheme: Letter Grade
Second course of the enriched sequence studying electricity and magnetism, including electrostatics, Gauss's Law, potentials, vector analysis, Laplace's equation, conductors and insulators, circuits, magnetism, Maxwell's equations and E and M fields in matter. (P)
Prerequisite: PHY 2060 or instructor permission;
Corequisite: MAC 2313 or the equivalent.
Attributes: General Education - Physical Science

PHY 2064L Accelerated Physics with Calculus Laboratory 2 Credits
Grading Scheme: Letter Grade
A cross-disciplinary, inquiry-based curriculum that focuses on major themes and concepts in physics, with an emphasis on their application in modern, quantitative life sciences research. Equivalent to PHY 2048L and PHY 2049L, or PHY 2060L and PHY 2061L.
Prerequisite: PHY 2048 or PHY 2060;
Corequisite: PHY 2049 or PHY 2061.

PHY 2464 The Physical Basis of Music 3 Credits
Grading Scheme: Letter Grade
Vibration and wave behavior as applied to musical instruments; and studies of the generation and reception of sound waves, musical intervals and scales, musical acoustics and musical electronics. (P)
Prerequisite: high school algebra and trigonometry, or the equivalent.
Attributes: General Education - Physical Science

PHY 3063 Enriched Modern Physics 3 Credits
Grading Scheme: Letter Grade
Theory of relativity and introduction to quantum theory. Course includes wave mechanics, quantum theory of solids, nuclear and particle physics and cosmology.
Prerequisite: PHY 2061 or instructor permission, and MAP 2302 or the equivalent.

PHY 3101 Introduction to Modern Physics 3 Credits
Grading Scheme: Letter Grade
Modern and atomic physics, relativity, wave phenomena and the basis of quantum physics. (P)
Prerequisite: PHY 2049 or the equivalent.
Attributes: General Education - Physical Science

PHY 3221 Mechanics 1 3 Credits
Grading Scheme: Letter Grade
First part of PHY 3221/4222 sequence in classical mechanics emphasizing matrices, vector calculus, Newtonian mechanics, frames of reference, conservation laws and harmonic oscillation. (P)
Prerequisite: PHY 2049 or the equivalent;
Corequisite: MAP 2302 or the equivalent.
Attributes: General Education - Physical Science

PHY 3323 Electromagnetism 1 3 Credits
Grading Scheme: Letter Grade
First part of the PHY 3323/4324 sequence in electromagnetism. Course covers static electric and magnetic fields, electric circuits, Maxwell's equations, radiation and propagation of electromagnetic waves. (P)
Prerequisite: (PHY 2049 or PHY 2061, or the equivalent) or (MAP 2302 or the equivalent).
Attributes: General Education - Physical Science

PHY 3400 Light, Color and Holography 3 Credits
Grading Scheme: Letter Grade
Demonstrations and discussion of commonly observed phenomena of light, color and vision, such as rainbows, sunsets, the blue sky and perceptual illusions. A study of the principles of holography and applications. (P)
Attributes: General Education - Physical Science

PHY 3513 Thermal Physics 1 3 Credits
Grading Scheme: Letter Grade
First part of the PHY 3513/4523 sequence that includes treatment of classical thermodynamics, including fundamental postulates, entropy and equations of states; thermodynamic equilibrium and potentials; Maxwell relations and phase transitions. (P)
Prerequisite: PHY 2049 or PHY 2061.
Attributes: General Education - Physical Science

PHY 3840L Building Scientific Equipment 2 Credits
Grading Scheme: Letter Grade
Hands-on experience in the mechanical fabrication of research apparatus. Topics include shop drawings, properties of materials, metal cutting (lathe and milling-machine operation) and metal joining.
Prerequisite: PHY 2061 or PHY 3101, or the equivalent.

PHY 4222 Mechanics 2 3 Credits
Grading Scheme: Letter Grade
Second part of the sequence in classical mechanics studying rigid body mechanics; motion in a noninertial frame, Lagrangian and Hamiltonian dynamics; elements of fluid mechanics; and relativity theory.
Prerequisite: PHY 3221 and differential equations.

PHY 4324 Electromagnetism 2 3 Credits
Grading Scheme: Letter Grade
The second in the PHY 3323/4324 electromagnetism sequence studying static electric and magnetic fields, electric circuits, Maxwell's equations, radiation and propagation of electromagnetic waves.
Prerequisite: PHY 3323 and differential equations.

PHY 4424 Optics 1 3 Credits
Grading Scheme: Letter Grade
The phenomena of reflection, refraction, dispersion, interference, diffraction and polarization of light.
Prerequisite: PHY 3323 or instructor permission.

PHY 4523 Statistical Physics 3 Credits
Grading Scheme: Letter Grade
Second of the PHY 3513/4523 sequence. Introduction to statistical physics and continued study of classical thermodynamics, including fundamental postulates, entropy and equations of states; thermodynamic equilibrium and potentials; Maxwell relations and phase transitions.
Prerequisite: PHY 3513 and PHY 4604; differential equations.

PHY 4550 Cryogenics 3 Credits
Grading Scheme: Letter Grade
History of cryogenics, air separation, liquefaction of permanent gases and natural gases, and superconducting devices and electronics.
Prerequisite: PHY 3101 or the equivalent;
Corequisite: PHY 3513 or the equivalent.

PHY 4604 Introductory Quantum Mechanics 1 3 Credits
Grading Scheme: Letter Grade
First of the PHY 4604/4605 sequence. Basic concepts of quantum mechanics with applications in atomic and nuclear physics and condensed matter. (P)
Prerequisite: PHY 3101 or PHY 3063; MAP 2302 or the equivalent.
Attributes: General Education - Physical Science

PHY 4605 Introductory Quantum Mechanics 2 3 Credits
Grading Scheme: Letter Grade
Second of the PHY 4604/4605 quantum mechanics sequence with applications in atomic and nuclear physics and condensed matter.
Prerequisite: PHY 4604.

PHY 4802L Laboratory Physics 1 3 Credits
Grading Scheme: Letter Grade
Electronics in the laboratory.
Corequisite: PHY 3323 or the equivalent.

PHY 4803L Laboratory Physics 2 3 Credits
Grading Scheme: Letter Grade
Current laboratory techniques.
Prerequisite: PHY 4604 and PHY 4802L.

PHY 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
Qualified undergraduate students study selected topics in physics.
Prerequisite: 12 credits of physics and instructor permission.

PHY 4911 Undergraduate Research in Physics 0-3 Credits
Grading Scheme: Letter Grade
Course provides firsthand, supervised research in Physics. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Physics.

PHZ 3113 Introduction to Theoretical Physics 3 Credits
Grading Scheme: Letter Grade
This course expands and systematizes the treatment of standard problems previously encountered in elementary physics. Mathematical techniques are developed to study problems in thermodynamics, statistical physics, the motion of coupled oscillators and electrodynamics.
Prerequisite: MAC 2313 and PHY 2061, or instructor permission.

PHZ 4390 Introduction to Elementary Particle Physics 3 Credits
Grading Scheme: Letter Grade
History and phenomenology of particle physics, physics of the Standard Model and beyond, and particle accelerators and detectors.
Prerequisite: PHY 3101 or PHY 3063;
Corequisite: PHY 4604.

PHZ 4404 Introduction to Solid State Physics 3 Credits
Grading Scheme: Letter Grade
Atomic binding, crystalline structure, diffraction and reciprocal lattice, lattice vibration, phonons, electrons in solids, energy bands, semiconductors.
Prerequisite: PHY 4604;
Corequisite: PHY 4523.

PHZ 4710 Introduction to Biological physics 3 Credits
Grading Scheme: Letter Grade
The physics of biological systems, including physics of proteins and nucleic acids, biomolecular motors and diffusional signaling and sensing. Important experimental tools such as magnetic resonance and synchrotron x-ray crystallography are also discussed. (WR)
Prerequisite: one year of introductory physics (PHY 2053/PHY 2054, PHY 2048/PHY 2049, or the equivalent) and one year of calculus (MAC 2311/MAC 2312, or the equivalent).
Attributes: Satisfies 2000 Words of Writing Requirement

Plant Pathology

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.

More Info (http://registrar.ufl.edu/soc)

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Courses

PLP 2000 Plants, Plagues and People 3 Credits
Grading Scheme: Letter Grade
Biology and history of the human species for non-science majors. A chronological presentation from the origin of life to the present with emphasis on the impact that plants, animals and diseases have had and are having on human civilizations. (B or H)
Attributes: General Education - Biological Science, General Education - Humanities

PLP 2060 Fungus among Us: Mushrooms, Molds and Civilization 3 Credits
Grading Scheme: Letter Grade
Role of fungi in human affairs, including their historical use as food or medicine or in religious activities. Also includes their current impact on society as pathogens of plants and animals, in the deterioration of food and fabric and in the synthesis of important drugs. (B)
Attributes: General Education - Biological Science

PLP 3002C Fundamentals of Plant Pathology 4 Credits
Grading Scheme: Letter Grade
Principles and practices of plant pathology. (B)
Prerequisite: BOT 2010C or BSC 2010.
Attributes: General Education - Biological Science

PLP 3103C Control of Plant Diseases 3 Credits
Grading Scheme: Letter Grade
Principles and practice of plant disease control through cultural practices, competing microorganisms and chemical pesticides. Offered every other year.)
Prerequisite: PLP 3002C.

PLP 3230 Survey of Plant Pathogens 3 Credits
Grading Scheme: Letter Grade
Introduces the main groups of pathogens that cause plant disease, how they spread and affect plants and how they are identified and managed. Also includes specific examples of how plant pathogens have changed the course of human history and culture.
Prerequisite: BOT 2010 or BSC 2010.

PLP 4104 Applied Plant Disease Management 3 Credits
Grading Scheme: Letter Grade
Summarizes the methods and strategies used to manage plant disease by targeting vulnerable points in the pathogen life cycle and disease epidemic. Utilize knowledge of organismal biology, epidemiology, management chemistry, and economics to develop strategies for managing plant diseases.
Prerequisite: BSC 2010/BSC 2010L or BOT 2010C and BSC 2011/BSC 2011L or BOT 2011C.

PLP 4222C Introduction to Plant Virology 3 Credits
Grading Scheme: Letter Grade
Introduces plant virology by covering the principles of plant virology, symptomatology, virus groups, structure, function, spread, detection and control.
Prerequisite: PLP 3002C and BCH 3025.

PLP 4242C Introduction to Plant Bacteriology 3 Credits
Grading Scheme: Letter Grade
Discusses the main characteristics and properties of bacteria that cause disease in plants with emphasis on problems unique to plant pathology. Offered every other year.
Prerequisite: MCB 3020;
Corequisite: PLP 3002C.

PLP 4260C Introduction to Plant Pathogenic Fungi 3 Credits
Grading Scheme: Letter Grade
Introduces the groups of fungi that cause disease in plants, including morphology, taxonomy, physiology, genetics and control of these fungi.
Prerequisite: PLP 3002C or PLP 4653C.

PLP 4653C Basic Fungal Biology 4 Credits
Grading Scheme: Letter Grade
Introduces the groups of fungi and fungi-like organisms. Discusses the structure, development, physiology, genetics, ecology and systematics of fungi.
Prerequisite: (BSC 2010 and BSC 2011) or PLP 3002C.

PLP 4900 Supervised Extension Experience in Plant Pathology 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

PLP 4905 Problems in Intermediate Plant Pathology 1-4 Credits
Grading Scheme: Letter Grade
Individual study and research in areas of special interest to undergraduates whose major field is plant pathology.
Prerequisite: PLP 3002 or the equivalent.

PLP 4911 Supervised Research in Plant Pathology 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application. (S-U)

PLP 4915 Honors Thesis Research in Plant Pathology 0-3 Credits
Grading Scheme: S/U
Independent research in plant pathology leading to an honors thesis; mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

PLP 4931 Seminar in Plant Pathology 1 Credit
Grading Scheme: Letter Grade
Discusses current concepts and procedures related to the practice of plant pathology as a profession.
Prerequisite: PLP 3002C.

PLP 4932 Special Topics in Plant Pathology 1-3 Credits
Grading Scheme: Letter Grade
Special topics in plant pathology.
Prerequisite: sophomore standing.

PLS 4941 Practical Work Experience 1-3 Credits
Grading Scheme: S/U
Practical, hands-on experience in the plant sciences through a paid internship in the industry. This must be a new experience and related to the student's field of study. One month of full-time work is required for each credit.
Prerequisite: junior standing and AG-PLS major.

Polish | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

PLT 2560 Poland through Movies 4 Credits
Grading Scheme: Letter Grade
Introductory survey of more than one thousand years of Polish history, illustrated on film.

PLT 3520 Polish Cinema 4 Credits
Grading Scheme: Letter Grade
Examination of principal developments and major directors of modern Polish cinema with emphasis on the visual and narrative techniques that distinguish Polish cinema from Hollywood and other national cinemas. Taught in English. (Cross-listed with ENG 4135.)

PLT 3930 Special Topics in Polish Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics in Polish literature, culture and society. Taught in English.

POL 1130 Introduction to Polish Language and Culture 1 5 Credits
Grading Scheme: Letter Grade
A two-semester Polish language sequence that introduces the basics of Polish language and culture.

POL 1131 Introduction to Polish Language and Culture 2 5 Credits
Grading Scheme: Letter Grade
Second in the two-semester sequence. Helps to expand vocabulary, command of Polish grammar, and the ability to speak Polish.
Prerequisite: POL 1130 or placement test.

POL 2220 Intermediate Polish 1 4 Credits
Grading Scheme: Letter Grade
Improve speaking, reading, writing, and listening comprehension skills by reviewing and expanding the language principles introduced in POL 1130 and POL 1131.

POL 2221 Intermediate Polish 2 4 Credits
Grading Scheme: Letter Grade
Improve speaking, reading, writing, and listening comprehension skills by reviewing and building upon the language principles introduced in POL 2220.

Political Science

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

CPO 2001 Comparative Politics 3 Credits
Grading Scheme: Letter Grade
The classification of political systems according to institutional and developmental characteristics. Causes and costs of political stability and instability. Comparison relates to contemporary political institutions and processes in specific countries. (S and N)
Attributes: General Education - International, General Education - Social Science

CPO 3044 Democracy in Dark Times 3 Credits
Grading Scheme: Letter Grade
Democratic decline across several counties and regions of the world. Addresses periods of democratic decline in regions in which democracy is expected, as well as in countries with histories of authoritarianism. Themes include Nazism, fascism, socialist and/or populist revolution, as well as democratic recovery in some cases.
Prerequisite: CPO 2001.

CPO 3103 Western European Politics 3 Credits
Grading Scheme: Letter Grade
Comparative analysis of the government and politics of the major Western European countries. Emphasizes party systems and the social bases of politics in industrialized societies. (S and N)
Prerequisite: CPO 2001.
Attributes: General Education - International, General Education - Social Science

CPO 3204 African Politics 3 Credits
Grading Scheme: Letter Grade
African nationalism, political movements and governments in the African states. (S and N) (WR)
Prerequisite: CPO 2001.
Attributes: General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

CPO 3303 Introduction to Latin American Politics 3 Credits
Grading Scheme: Letter Grade
Introductory overview of political patterns and political behavior in Latin America within comparative and developmental perspectives. Emphasizes the social, economic and political factors shaping contemporary political structures and processes. (S and N)
Attributes: General Education - International, General Education - Social Science

CPO 3403 Politics of the Middle East 3 Credits
Grading Scheme: Letter Grade
Focuses on key political and social processes in the modern Middle East. Variable themes in comparative politics are addressed, such as nationalism, state formation, women and politics, religious resurgence, feminism and law. (S and N)
Prerequisite: CPO 2001.
Attributes: General Education - International, General Education - Social Science

CPO 3614 Eastern European Politics 3 Credits
Grading Scheme: Letter Grade
Comparative analysis of the formal structures of government and politics of Eastern European countries; the actual operation of their political systems and the factors that influenced their transitions to democracy and market-based economies. (S and N)
Prerequisite: CPO 2001.
Attributes: General Education - International, General Education - Social Science

CPO 3633 Politics in Russia 3 Credits
Grading Scheme: Letter Grade
Analyzes the formal structures of government and politics in Russia, the actual operation of its political system and the factors that influenced the transition to democracy and a market-based economy. (S and N)
Prerequisite: CPO 2001.
Attributes: General Education - International, General Education - Social Science

CPO 3713 Women and Politics in the Modern Middle East 3 Credits
Grading Scheme: Letter Grade
Examines women and gender in the politics of the modern Middle East from the late 19th century through the 1990s.

CPO 4000 Selected Studies in Comparative Politics 3 Credits
Grading Scheme: Letter Grade
Variable topics in comparative politics; precise course content will be announced in advance. (S and N)
Attributes: General Education - International, General Education - Social Science

CPO 4034 Politics in Developing Nations 3 Credits
Grading Scheme: Letter Grade
Introduces politics in third world states, an examination of common problems and the various strategies for dealing with them.
Prerequisite: CPO 2001.

CPO 4042 Politics in Post-Industrial Societies 3 Credits
Grading Scheme: Letter Grade
Comparative analysis of advanced industrial states with emphasis on diverse patterns of economic, social and political development as determinants of current political structures and policies.

CPO 4053 Politics under Authoritarianism 3 Credits
Grading Scheme: Letter Grade
Investigates the sources of durable authoritarianism in Asia and around the world and contrasts the survival of dictatorships with successful democratic transitions.
Prerequisite: CPO 2001.

CPO 4072 Comparative Elections 3 Credits
Grading Scheme: Letter Grade

CPO 4133 Canadian Politics 3 Credits
Grading Scheme: Letter Grade
Surveys the political culture, constitutional foundations, public opinion and participation, and political institutions in Canada. Focus on the challenges to constitutional foundations, Canadian nationalism, federalism, parliamentary supremacy and the party system. (S)
Prerequisite: CPO 2001.
Attributes: General Education - Social Science

CPO 4145 Irish Government and Politics 3 Credits
Grading Scheme: Letter Grade
Intensive analysis of the contemporary history, politics and government of Ireland. The course examines the foundations of the state and society from an historical and political-cultural perspective.
Prerequisite: POS 2041.

CPO 4194 Islam and European Politics 3 Credits
Grading Scheme: Letter Grade
Introduces the variety of contacts that Islam, as a religion and system of thought and doctrine, has had on various strands of European politics since early Muslims engaged in translating, commenting on and expanding the Greek systems of thought.
Prerequisite: CPO 2001.

CPO 4302 Latin American Political Economy 3 Credits
Grading Scheme: Letter Grade
Introduces the Latin American political economy. Students acquire the analytical tools to understand the relationship between politics and economics in the shaping of public policies in the region.
Prerequisite: CPO 2001 or LAS 2001.

CPO 4306 Contemporary Problems in Latin American Politics 3 Credits
Grading Scheme: Letter Grade
Analyzes major themes and issues in the study of Latin American politics: democratic transitions, economic restructuring, social movements, civil-military relations and political violence. (WR)
Prerequisite: CPO 3303 or the equivalent experience.
Attributes: Satisfies 6000 Words of Writing Requirement

CPO 4384 Argentina and the Politics of Memory 3 Credits
Grading Scheme: Letter Grade
Politics of Argentina from the 19th century to the present with special focus on Peronism and the rise of democracy.
Prerequisite: CPO 2001.

CPO 4401 Arab-Israeli Conflict 3 Credits
Grading Scheme: Letter Grade
The Arab-Israeli conflict from the 19th century through the 1990s and into the current century.

CPO 4721 The Politics of Ethnic Conflict 3 Credits
Grading Scheme: Letter Grade
Introduces the systematic study of communal violence, to the major concepts in conflict studies, to the main approaches to studying conflict and to many of the major episodes of communal violence in contemporary Asia and beyond.
Prerequisite: CPO 2001.

CPO 4722 Latin American and Caribbean Migration to the United States 3 Credits
Grading Scheme: Letter Grade
Provides a clearer understanding and appreciation of Latin American and Caribbean migration to the United States. After a general introduction to some of the key theoretical concepts and the historical processes underlying immigration to the U.S., focuses in depth on selected immigrant groups from Latin America and the Caribbean.
Prerequisite: sophomore status or above.

CPO 4727 Judaism and Politics 3 Credits
Grading Scheme: Letter Grade
Examines how Jews govern themselves (often referred to as communal governance) and how Jews relate to the political system where they live. Explores the development of the Jewish political tradition in the Biblical period, the Middle Ages, the early modern period and the modern era.
Prerequisite: POS 2041.

CPO 4731 Democratization in Global Perspective 3 Credits
Grading Scheme: Letter Grade
Introduces literature on democratization, including familiarization with important theoretical and conceptual issues and empirical data on major regions of the world.
Prerequisite: CPO 2001.

CPO 4793 Environmental Politics in the Global South 3 Credits
Grading Scheme: Letter Grade
Examines the politics of environmental degradation in countries of the global south, a.k.a. the developing world, through case studies of Amazonian deforestation in Brazil, international development projects in India and oil drilling in the Niger Delta.
Prerequisite: sophomore standing or higher.

CPO 4911 Undergraduate Research in Comparative Politics 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Comparative Politics. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Comparative Politics.

INR 2001 Introduction to International Relations 3 Credits
Grading Scheme: Letter Grade
Examines philosophical, theoretical and methodological approaches to the student of international relations, the interaction of major global actors in the post-World War II and post-Cold War eras, the structure of the global economy and various issues such as arms proliferation and conflict associated with ethnicity and nationalism. (S and N)
Attributes: General Education - International, General Education - Social Science

INR 3034 Politics of the World Economy 3 Credits
Grading Scheme: Letter Grade
International trade, finance and investment issues in the global political economy and their importance for advanced industrial and less-developed countries.
Prerequisite: INR 2001.

INR 3084 Culture and World Politics 3 Credits
Grading Scheme: Letter Grade
Contending conceptualizations of culture and its relations to international politics. Examines several questions on the relationship between national/group identity and international politics: Do diplomatic alliances reflect cultural/ideological affinity among allies? What is the relationship between the self-image of the West and Western imperialism?
Prerequisite: INR 2001.

INR 3102 The U.S. and World Affairs 3 Credits
Grading Scheme: Letter Grade
The tradition and development of American foreign policy and contemporary foreign policy problems. (S and N)
Prerequisite: INR 2001 or instructor permission.
Attributes: General Education - International, General Education - Social Science

INR 3135 Contemporary Issues in National Security 3 Credits
Grading Scheme: Letter Grade
Surveys national security issues including proliferation, terrorism, and homeland defense.
Prerequisite: INR 2001 with a minimum grade of B.

INR 3333 Introduction to International Security 3 Credits
Grading Scheme: Letter Grade
Examines and applies the major theoretical and methodological approaches to international security. Analyzes the impact of domestic, state, regional and global system factors in international security. Familiarity with the basic concepts of world politics, particularly the dominant actors, issues and paradigms, is recommended.
Prerequisite: INR 2001.

INR 3502 International Institutions 3 Credits
Grading Scheme: Letter Grade
Analyzes the political and functional aspects of international organization and cooperation with emphasis on formal organizations, such as the United Nations or the European Union, and less formal institutions and arrangements. (S and N) (WR)
Prerequisite: INR 2001 and junior or senior standing.
Attributes: General Education - International, General Education - Social Science, Satisfies 6000 Words of Writing Requirement

INR 3603 Theories of International Relations 3 Credits
Grading Scheme: Letter Grade
Examines a variety of theoretical and methodological approaches to the study of international relations.
Prerequisite: INR 2001.

INR 4035 Rich and Poor Nations in the International System 3 Credits
Grading Scheme: Letter Grade
The economic, social and political linkages between less developed and advanced industrial countries in the global system predominantly from the former's perspective. Considers the historical sources of underdevelopment, theoretical and substantive aspects of world poverty, and regional and international efforts to redress the problems of developing countries.
Prerequisite: INR 2001.

INR 4083 War and Peace in World Politics 3 Credits
Grading Scheme: Letter Grade
Examination and application of the major theoretical and methodological approaches to the study of international conflict. Analyzes the impact of domestic, state, regional and global factors in explicating international war. Students should be familiar with the basic concepts of world politics, particularly the dominant actors, issues and paradigms informing analyses in the field, with special emphasis on quantitative analyses of war.

INR 4085 Gender and International Relations 3 Credits
Grading Scheme: Letter Grade
Despite the importance of gender in global politics, gender is still not fully integrated in the academic study of international politics. Examines the study of feminist work in international relations.

INR 4204 Comparative Foreign Policy 3 Credits
Grading Scheme: Letter Grade
Various theoretical approaches to explaining foreign policy, with special attention to the foreign policies of selected countries other than the United States.
Prerequisite: INR 2001 and junior or senior standing.

INR 4244 International Politics of Latin America 3 Credits
Grading Scheme: Letter Grade
Analyzes the international politics of Latin America, including relations with the United States and non-hemispheric powers as well as the foreign policies of Latin American states vis-vis each other. (WR)
Prerequisite: INR 2001 or advanced standing in Latin American studies.
Attributes: Satisfies 6000 Words of Writing Requirement

INR 4303 The Making of American Foreign Policy 3 Credits
Grading Scheme: Letter Grade
Examines the principal factors influencing the formulation of U.S. foreign policy, including the international environment, information processing, personality factors, political culture, decision-makers and decision making. Consideration is also given to the institutional setting, including the President, Congress and public opinion. (S)
Prerequisite: INR 2001 or instructor permission.
Attributes: General Education - Social Science

INR 4350 International Environmental Relations 3 Credits
Grading Scheme: Letter Grade
Considers the special problems posed by environmental collective action for international policymakers, some of the primary actors and organizations involved in addressing environmental problems and selected international environmental issues, such as global warming, ozone depletion and rain forest destruction.
Prerequisite: INR 2001.

INR 4531 Politics of the European Union 3 Credits
Grading Scheme: Letter Grade
Examines the primary structures, actors and processes of policy making in the European Union. Salient policy areas such as the single market, monetary union, agricultural policy and the potential for a common foreign and security policy are investigated.
Prerequisite: INR 2001.

INR 4684 Theories of International Ethics 3 Credits
Grading Scheme: Letter Grade
Introduces contemporary theories, debates and major scholarly traditions in the study of theories of international ethics. Students read and critique five books that present different debates on theory, method, policy and practice.
Prerequisite: INR 2001.

INR 4905 Individual Work 2-3 Credits
Grading Scheme: Letter Grade
Readings and discussion in advanced topics in International Relations.

INR 4911 Undergraduate Research in International Relations 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

INR 4931 Special Topics in International Relations 3 Credits
Grading Scheme: Letter Grade
Selected topics in International Relations.
Prerequisite: CPO 2001.

INR 4940 International Relations Internship 3 Credits
Grading Scheme: S/U
Internship with government, political parties, interest groups, lobbying organizations, international organizations, and private companies with 60% or more focus on international politics. Log and paper required. Only 3 hours of POS/PAD/INR 4940 credit may be counted towards the Political Science major and/or the International Relations Certificate.
Prerequisite: CPO 2001.

INR 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism for students to receive UF credit for international relations coursework taken in an approved study abroad program. Syllabuses of proposed coursework must be approved in advance by the departmental undergraduate coordinator.

PAD 3003 Introduction to Public Administration 3 Credits
Grading Scheme: Letter Grade
The role of administrative agencies in the formulation and implementation of public policy. Emphasizes the politics of administration. Problems in administration management. (S)
Prerequisite: POS 2041.
Attributes: General Education - Social Science

PAD 4940 Court Internship 3 Credits
Grading Scheme: S/U
Preapproved internship with the Alachua County Clerk of Court. Interns will work a minimum of 150 hours per semester, complete readings and a 5-10 page paper. Only three credits of POS/PAD 4940 credit may be counted toward the political science major. (S-U)
Prerequisite: POS 2041 and instructor permission.

POS 2032 Politics of Sustainability 3 Credits
Grading Scheme: Letter Grade
Examines the political determinants of societal efforts to achieve the competing objectives of sustainability; introduces key concepts and theories used by political scientists in studying sustainability. (S)
Attributes: General Education - Social Science

POS 2041 American Federal Government 3 Credits
Grading Scheme: Letter Grade
Basic principles of the Federal Constitution and Civil Rights. Political parties and the electoral process. The structure and machinery of the federal government, including Congress, the president and the judiciary. (S)
Attributes: General Education - Social Science

POS 2112 American State and Local Government 3 Credits
Grading Scheme: Letter Grade
State constitutions, political parties and politics. State legislatures, courts and chief executives. The functions of state, city and county government. (S)
Attributes: General Education - Social Science

POS 3122 State Politics 3 Credits
Grading Scheme: Letter Grade
Investigates major problems and issues in American state politics. Emphasizes the political institutions and organizations, political behavior in state politics and the impact of state politics on policy making at national, state and local levels.
Prerequisite: POS 2041.

POS 3173 Southern Politics 3 Credits
Grading Scheme: Letter Grade
The changing politics of the South, including two-party development, urbanism, traditionalism and racism. (S) (WR)
Prerequisite: POS 2041.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

POS 3204 Political Behavior 3 Credits
Grading Scheme: Letter Grade
Examines institutional, social and psychological influences on mass political behavior, political sophistication, political participation, voter choice, partisanship, ideology and values. (S) (WR)
Prerequisite: POS 2041.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

POS 3233 Politics and Public Opinion 3 Credits
Grading Scheme: Letter Grade
Studies the definition and measurement of political opinion by polls and surveys, and the developmental character of opinions. Includes variables in opinion formation, experiments in opinion measurement and the relation of political opinion to public policy.
Prerequisite: POS 2041.

POS 3263 Policy, Ethics and Public Leadership 3 Credits
Grading Scheme: Letter Grade
Public leaders bear a special responsibility to make ethical decisions based on the enduring values of our democracy; develops awareness of leadership and ethical issues in the public sector. (S) (WR)
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

POS 3603 American Constitutional Law 3 Credits
Grading Scheme: Letter Grade
Studies and analyzes the Federal Constitution, with study and briefing of leading cases in constitutional law. (WR)
Prerequisite: POS 2041 and junior or senior standing.
Attributes: Satisfies 6000 Words of Writing Requirement

POS 3606 American Civil Liberties 3 Credits
Grading Scheme: Letter Grade
Discusses statutes and court decisions emphasizing First Amendment freedoms, equal protection of the law, due process and rights of defendants, implied rights, and the rights of women, juveniles, students, prisoners and the mentally ill. (WR)
Prerequisite: POS 2041.
Attributes: Satisfies 6000 Words of Writing Requirement

POS 3679 Trial Advocacy 1 Credit
Grading Scheme: Letter Grade
This trial advocacy course allows students to act as attorneys and/or witnesses in a simulated civil or criminal trial. Requires participation in the fall (when the team begins preparing the case) and spring (through the end of March when the mock trial season ends).
Prerequisite: instructor permission.

POS 4074 Latino Politics and Policy 3 Credits
Grading Scheme: Letter Grade
Examines the political behavior of Hispanic Americans in the United States. Students discuss political and public policy issues that impact Hispanic/Latino communities, such as affirmative action, the Chicano movement, English-only movements, immigration, the presidency, racial profiling and urban politics.
Prerequisite: sophomore standing or above.

POS 4077 African American Politics and Policy 3 Credits
Grading Scheme: Letter Grade
Examines the political behavior of African Americans in the United States. Discusses the civil rights movement, the black power movement, black political thought (conservatism, liberalism and nationalism), blacks and the court system, the role of blacks in political parties, blacks and the presidency and contemporary issues in African American politics.
Prerequisite: sophomore standing or above.

POS 4194 Politics beyond the Beltway 3 Credits
Grading Scheme: Letter Grade
Examines key issues of politics that exist at regional, state and local levels such as campaign finance reform, lobbying, political action committees, political corruption, racial and civil rights issues, and state and local relations.
Prerequisite: POS 2041.

POS 4202 Asian American Politics 3 Credits
Grading Scheme: Letter Grade
Examines the political behavior, attitudes and mobilization of Asian Americans in America by studying the racial stereotypes that plague them, their electoral behavior, the mobilizations tactics utilized in their communities, their response to violent crimes against members of their group and crime within their communities, Asian American conservatism, their views on affirmative action and the politics of Asian American women.
Prerequisite: POS 2041.

POS 4258 Politics in Fiction and Film 3 Credits
Grading Scheme: Letter Grade
Uses make-believe stories told in popular novels and Hollywood motion pictures to provide insights into the nature of real-life politics in the United States. (WR)
Prerequisite: POS 2041.
Attributes: Satisfies 6000 Words of Writing Requirement

POS 4264 Ethics in American Politics 3 Credits
Grading Scheme: Letter Grade
The problem of unethical behavior involving elected officials is a perennial concern in American politics. How do political ethics differ, if at all, from private ethics? What causes corruption? What have been the aims of good-government reformers?
Prerequisite: POS 2041.

POS 4275 Modern Political Campaigns 3 Credits
Grading Scheme: Letter Grade
Explores major issues associated with modern political campaigns. Presidential campaigns are a primary, but not exclusive, focus. Investigates why modern campaigns take the forms they do, and to place them in broader American and political contexts. This is not a course on how to run campaigns; it is a course on understanding campaign politics.
Prerequisite: POS 2041.

POS 4291 Religion and Politics in the United States 3 Credits
Grading Scheme: Letter Grade
Investigates the role of religious institutions, values and communities in contemporary American political life. (WR)
Prerequisite: refer to the department.
Attributes: Satisfies 6000 Words of Writing Requirement

POS 4400 Politics of Modernity 3 Credits
Grading Scheme: Letter Grade
Focuses on the core elements of modernity: the transitions from traditional to modern political identities, from subsistence production to capitalism, and from less to more complex forms of political authority, whether democratic or not. This course also introduces advanced undergraduates in political science to the development of the central themes in comparative politics.
Prerequisite: CPO 2001.

POS 4413 The Presidency 3 Credits
Grading Scheme: Letter Grade
The central role of the American Presidency in the political process. Emphasizes the contemporary institutional nature of that office and the behavior of its occupants. (S)
Prerequisite: POS 2041.
Attributes: General Education - Social Science

POS 4424 Legislative Politics 3 Credits
Grading Scheme: Letter Grade
The politics of the legislative process, recruitment of legislators, formal and informal rules of behavior, legislative-executive relations and the committee system. Also discusses the impact of political parties, interest groups and constituents on the legislative process. (S)
Prerequisite: POS 2041 and junior or senior standing.
Attributes: General Education - Social Science

POS 4443 Political Parties and Elections 3 Credits
Grading Scheme: Letter Grade
Composition, organization and structure of political parties and their roles and relationships in the political process. (S) (WR)
Prerequisite: POS 2041.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

POS 4463 Interest Group Politics 3 Credits
Grading Scheme: Letter Grade
Examines the theoretical foundations, historical context and current activities of special interest groups in the United States.
Prerequisite: POS 2041

POS 4624 Race, Law and the Constitution 3 Credits
Grading Scheme: Letter Grade
Surveys the historical and contemporary response of the law enforcement, civil/criminal justice and corrections systems to minority/ethnic groups in the United States. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

POS 4674 Political Change and Legal Development 3 Credits
Grading Scheme: Letter Grade
Introduces the role of law in political and social development by providing a background in social theory and the history of legal systems, beginning with Roman law.
Prerequisite: POS 2041.

POS 4734 Research Methods in Political Science 3 Credits
Grading Scheme: Letter Grade
Introduces the theory and method of contemporary political analysis. Emphasizes alternative analytical frameworks, concepts, research design, variables, measurement and quantitative analysis of political data. Required for students pursuing the department honors program. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

POS 4750 Survey Research 3 Credits
Grading Scheme: Letter Grade
Prepares students to understand, conduct, analyze and assess opinion surveys and polls. Covers how to decide whether and when surveys are appropriate means of data collection, how to put together a survey, how to conduct basic quantitative analysis of survey data and how to report the findings.
Prerequisite: POS 2041.

POS 4905 Individual Work 2-3 Credits
Grading Scheme: Letter Grade
Readings and discussion in advanced topics of political science.
Prerequisite: department permission

POS 4911 Undergraduate Research in American Politics 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

POS 4931 Special Topics 3 Credits
Grading Scheme: Letter Grade
Selected topics in political science; precise course content will be announced in advance.

POS 4934 Honors Preparation 1 Credit
Grading Scheme: Letter Grade
Must be taken in conjunction with other political science courses at the 3000/4000 level. Required for students pursuing the department honors program.
Prerequisite: majors with a UF upper-division GPA of 3.5 and instructor permission.

POS 4940 Political Internship 3 Credits
Grading Scheme: S/U
Internship in government and politics. Internships are available at all levels - local, state and federal - and in every branch of government - executive, legislative and judicial. Other internships are available with political parties, interest groups, lobbying organizations, international organizations and private companies engaged in governmental relations and issue research. Readings and paper required. Only three credits of POS /PAD 4940 credit may be counted toward the major. (S-U).
Prerequisite: POS 2041 and instructor permission.

POS 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

POS 4970 Senior Thesis 2-4 Credits
Grading Scheme: Letter Grade
One of three required courses for students who are writing an honors thesis. Students work under the supervision of their thesis advisor. Generally, this course is taken in the second semester of the one-year thesis process. Students receive a letter grade for their work.

POT 2002 Introduction to Political Theory 3 Credits
Grading Scheme: Letter Grade
Basic principles of political thought. Examines the nature of the state and of the relationship between the individual and the state. Covers topics such as authority, consent, freedom and obligation. (H)
Attributes: General Education - Humanities

POT 3302 Political Ideologies 3 Credits
Grading Scheme: Letter Grade
Seeks understanding of the contemporary spectrum of political beliefs from liberal democracy to the ideological ideas of the far right. Examines the effects of ethical, historical, political and psychological perspectives on these belief systems.

POT 3503 Environmental Ethics and Politics 3 Credits
Grading Scheme: Letter Grade
An intensive investigation into the history and theory of environmental ethical and political thought.

POT 4013 Great Political Thinkers: Ancient and Medieval 3 Credits
Grading Scheme: Letter Grade
Major early political theorists including Plato, Aristotle, St. Augustine and St. Thomas Aquinas. Emphasis on the principles of a just political order: natural law, civic virtue, constitutionalism. Analysis of church-state struggles and the emergence of the modern state. (H)
Attributes: General Education - Humanities

POT 4053 Great Political Thinkers: Machiavelli to Marx 3 Credits
Grading Scheme: Letter Grade
Studies selected political theorists from Machiavelli to Marx. Emphasizes the ideas of authority and freedom, obligation and consent in the writing of Hobbes, Locke, Rousseau, etc. Liberalism, conservatism, utilitarianism and idealism. (H) (WR)
Attributes: General Education - Humanities, Satisfies 4000 Words of Writing Requirement

POT 4204 American Political Thought 3 Credits
Grading Scheme: Letter Grade
Examines the history of American political thought, including an analysis of Thomas Jefferson and the Declaration of Independence, the federalist papers and the ideology of Thomas Paine. Also includes African-American political thought, feminist political theories, liberalism and the contribution of Mark Twain.
Prerequisite: POT 2002.

POT 4311 Problems of Democracy 3 Credits
Grading Scheme: Letter Grade
The theory and practice of democracy, especially ideas that define a democratic order. Studies selected topics ranging from equality and majority rule to technology and the globalization of democracy. (WR)
Prerequisite: junior or senior standing, or instructor permission.
Attributes: Satisfies 4000 Words of Writing Requirement

POT 4911 Undergraduate Research in Political Theory 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

PUP 3002 Current Controversies in Public Policy 3 Credits
Grading Scheme: Letter Grade
Framework to understand the formation, adoption, budgeting, implementation and evaluation of public policy. This framework provides a basis for detailed discussions and debates about current policy issues. (S)
Prerequisite: POS 2041.
Attributes: General Education - Social Science

PUP 3323 Women in Politics 3 Credits
Grading Scheme: Letter Grade
Analyzes the roles women play in American politics, including political behavior and public policy issues.

PUP 4224 Florida Environmental Politics 3 Credits
Grading Scheme: Letter Grade
Examines the politics of environmental transformation in Florida, including issues of water supply, growth management and Everglades restoration. Supplements the department's offerings in environmental politics. Can be used to satisfy requirements for the major or minor in political science, but it is also intended for (and accessible to) interested students in any major.
Prerequisite: sophomore status or above.

PUP 4404 Politics of Education 3 Credits
Grading Scheme: Letter Grade
The interrelationship of American political and educational systems, educational policymaking as political process, and analysis of contemporary educational problems. (S) (WR)
Prerequisite: junior or senior standing, or instructor permission.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

PUP 4911 Undergraduate Research in Public Policy 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Public Policy. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Public Policy.

Portuguese | Spanish and Portuguese Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

LIT 2000 Introduction to Literature 3 Credits
Grading Scheme: Letter Grade
Examines the important role literature has played in individuals' lives and in society, presenting a range of literary styles and genres, from different countries and historical periods. Special attention paid to development of critical skills of analysis and interpretation. (H)
Prerequisite: ENC 1101
Attributes: General Education - Humanities

POR 1130 Beginning Portuguese 1 5 Credits
Grading Scheme: Letter Grade
First course in the basic Portuguese language sequence, which emphasizes the language as spoken in Brazil. Develops basic communication skills in reading, writing, speaking and listening. Not open to proficient speakers of Spanish.

POR 1131 Beginning Portuguese 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the series in basic Portuguese, which emphasizes the language as spoken in Brazil. Develops basic communication skills in reading, writing, speaking and listening. Not open to proficient speakers of Spanish.
Prerequisite: POR 1130 with minimum grade of C or S, or the equivalent.

POR 3010 Introduction to Portuguese and Brazil: Accelerated 5 Credits
Grading Scheme: Letter Grade
Designed for those with knowledge of another Romance language (usually Spanish) through study or home experience. A complete introduction to the language, assuming that students have no previous study of Portuguese. It also satisfies the CLAS and Journalism foreign-language requirement in one semester.
Prerequisite: FRE 3300, SPN 3300 or equivalent.

POR 3224 Applied Portuguese 1-5 Credits
Grading Scheme: Letter Grade
Portuguese-language reading and discussions to accompany and complement courses of diverse content offered in other departments. Readings and discussions are in Portuguese to develop vocabulary and fluency related to the content of the companion course and to provide an international perspective on the issues of the main course. (N)
Prerequisite: instructor permission.
Attributes: General Education - International

POR 3242 Oral and Written Practice 3 Credits
Grading Scheme: Letter Grade
Intermediate-level course emphasizing all four skills; consists of printed and electronic readings, writing essays and taking notes, oral discussions and presentations, lab activities and grammar review.
Prerequisite: POR 1131, POR 3010 or the equivalent.

POR 3243 Composition and Conversation 3 Credits
Grading Scheme: Letter Grade
An intermediate-level course with continued expansion of vocabulary, review of essential grammar and structures and development of reading, writing and speaking skills.
Prerequisite: POR 1131 or POR 3010, or the equivalent.

POR 3451 Introduction to Portuguese Translation and Interpretation 3 Credits
Grading Scheme: Letter Grade
Improve Portuguese language skills through application of the principles of translation while gaining information on professional opportunities in the field.
Prerequisite: POR 3010 or the equivalent.

POR 3500 Luso-Brazilian Civilization 3 Credits
Grading Scheme: Letter Grade
Introduction to the central historical events, political institutions, intellectual currents and artistic movements in the foundation and development of Portugal, Brazil and Lusophone Africa. Preview of topics studied in other literature and culture courses. (H and N)
Prerequisite: POR 3242 or the equivalent, or instructor permission.
Attributes: General Education - Humanities, General Education - International

POR 3502 Brazilian Culture 3 Credits
Grading Scheme: Letter Grade
Introduction to the study of modern cultural forms, including folk pageantry, performance arts, literature, film and television.
Prerequisite: POR 3242 or instructor permission.

POR 3701 Introduction to Portuguese Linguistics 3 Credits
Grading Scheme: Letter Grade
An introduction to the basic concepts and analytical techniques of linguistics, applied specifically to the Portuguese language. Practices the linguistic analysis of the sounds, words and sentences of Portuguese, with relevant comparisons to Spanish and English where applicable.
Prerequisite: POR 3242 or POR 3243 with minimum grade of C.

POR 3930 Topics in Brazilian Culture and Civilization 3 Credits
Grading Scheme: Letter Grade
Variable topics in Brazilian culture and civilization, including racial identity, feminism, regionalism, music, film, art, religion, sports, and more.
Prerequisite: POR 3010.

POR 4420 Advanced Composition and Syntax 3 Credits
Grading Scheme: Letter Grade
A language course that distinguishes Portuguese from related Romance tongues, including the more difficult aspects of grammar and structure, specialized vocabulary, different stylistic registers, and application of these to translation and original composition.
Prerequisite: POR 3243 or the equivalent (intermediate proficiency).

POR 4906 Honors Thesis 1-3 Credits
Grading Scheme: Letter Grade
Honors thesis preparation.
Prerequisite: 4000-level POW or POR course.

POR 4956 Overseas Studies 3-6 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

POW 3100 Introduction to Literature in Portuguese 3 Credits
Grading Scheme: Letter Grade
A survey of literature written in Portuguese by major authors from Portugal, Brazil and Lusophone Africa. Primary emphasis falls on narrative and comparisons of developments in Portugal and the former colonies. (H and N)
Prerequisite: POR 3243 or the equivalent, or instructor permission.
Attributes: General Education - Humanities, General Education - International

POW 3130 Introduction to Brazilian Literature 1 3 Credits
Grading Scheme: Letter Grade
A survey of literary production in Brazil 1500-1900, including the literature of discovery, colonial manifestations and the major works of Romanticism, Realism and Parnassianism. (H and N)
Prerequisite: POR 3243 or the equivalent, or instructor permission.
Attributes: General Education - Humanities, General Education - International

POW 3131 Introduction to Brazilian Literature 2 3 Credits
Grading Scheme: Letter Grade
A survey of 20th-century literary movements: premodernism, modernism and regionalism in prose and poetry, with an emphasis on the fiction of contemporary writers. (H and N)
Prerequisite: POR 3243 or the equivalent, or program coordinator permission.
Attributes: General Education - Humanities, General Education - International

POW 4380 Contemporary Brazilian Poetry 3 Credits
Grading Scheme: Letter Grade
A study of lyric, both literary and musical, in the second half of the 20th century, including experimental trends, political verse, popular music and youth movements.
Prerequisite: introductory knowledge of Brazilian literature.

POW 4382 Brazilian Drama 3 Credits
Grading Scheme: Letter Grade
A survey of the milestones of Brazilian theatre with an emphasis on 20th century plays. In addition to the plays, the course also presents the theoretical framework and political context of theatrical production in Brazil. (H and N)
Prerequisite: introductory knowledge of Brazilian literature.
Attributes: General Education - Humanities, General Education - International

POW 4450 The Modernist Movement in Brazilian Literature 3 Credits
Grading Scheme: Letter Grade
Readings in fiction, poetry and essay of the nationalist and avant-garde decades of the 1920s and 1930s. Discussions are designed to situate Brazilian letters in diverse national and international contexts. Literary works are complemented by considerations of concurrent production in music and the arts.
Prerequisite: introductory knowledge of Brazilian literature.

POW 4454 Nineteenth-Century Brazilian Literature 3 Credits
Grading Scheme: Letter Grade
The major literary trends of the 19th century, primarily in fiction (Romanticism, Realism and Naturalism), poetry and essays, to familiarize students with representative works of each literary movement and genre. (H and N)
Prerequisite: introductory knowledge of Brazilian literature.
Attributes: General Education - Humanities, General Education - International

POW 4480 Contemporary Brazil Narrative 3 Credits
Grading Scheme: Letter Grade
Rotating topics may include studies in genre (the short story, the novel), theme (science fiction) or author (Rubern Fonseca, Clarice Lispector, Guimaraes Rosa). (H and N)
Attributes: General Education - Humanities, General Education - International

POW 4700 Machado de Assis and His Contemporaries 3 Credits
Grading Scheme: Letter Grade
Machado de Assis, the 19th-century master of Brazilian letters, produced writings of every literary genre, including literary criticism, poetry and drama, in addition to his ingenious short stories and novels. This course surveys Machado's work and compares his novels to those of his contemporaries. (H and N)
Prerequisite: introductory knowledge of Brazilian literature.
Attributes: General Education - Humanities, General Education - International

POW 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Individual work in Portuguese.
Prerequisite: instructor permission.

POW 4911 Undergraduate Research in Portuguese 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

POW 4930 Readings in Luso-Brazilian Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Diverse subjects in Brazilian and Portuguese studies, including the Brazilian Northeast, the Afro-Brazilian world, the culture of dictatorship, popular genres and popular music. In addition to readings of original texts, course may incorporate sound recordings and film.
Prerequisite: introductory knowledge of Luso-Brazilian literature.

PRT 3391 Brazilian Cinema 4 Credits
Grading Scheme: Letter Grade
Critical analysis of Brazilian film and the relationship of content to social and political forces.

PRT 3930 Special Topics in Lusophone Culture and Civilization 1-4 Credits
Grading Scheme: Letter Grade
Variable topics in Brazilian, Portuguese or Luso-African culture and civilization, including globalism, regionalism, song literature, film and video, negritude, women's movements and Amazonian discourse.

Psychology

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

CBH 3003 Comparative Psychology 3 Credits
Grading Scheme: Letter Grade
Survey of approaches to and concepts of the study of animal behavior and psychology. (B)
Prerequisite: PSY 2012.
Attributes: General Education - Biological Science

CLP 2001 Personal Growth 3 Credits
Grading Scheme: Letter Grade
Introduces the concepts and techniques in psychology that apply to personal growth and development. All students have the opportunity to participate in research projects or alternative experiences. (S)
Attributes: General Education - Social Science

CLP 3144 Abnormal Psychology 3 Credits
Grading Scheme: Letter Grade
The varieties of disordered experience and conduct, and their contribution to an understanding of more effective personal and social adjustment. Includes the neuroses, psychoses and psychosomatic and conduct disturbances. (S)
Prerequisite: PSY 2012.
Attributes: General Education - Social Science

CLP 4110 Eating Disorders 3 Credits
Grading Scheme: Letter Grade
Overview of the causes and treatments associated with the full range of recognized eating disorders, including anorexia, bulimia and binge eating disorder, as well as a variety of subclinical forms of problematic eating behaviors and their surrounding factors and issues.
Prerequisite: PSY 2012.

CLP 4160 Advanced Abnormal Psychology 3 Credits
Grading Scheme: Letter Grade
Detailed coverage of the origins, treatments and controversies associated with select forms of emotional distress or mental illness. Includes theoretical and empirical contributions to understanding select mood disorders, anxiety disorders, substance disorders, and psychotic disorders, among others.
Prerequisite: PSY 2012 and CLP 3144.

DEP 3053 Developmental Psychology 3 Credits
Grading Scheme: Letter Grade
Theory and research on psychological development from prenatal stages through adulthood. (S)
Prerequisite: PSY 2012
Attributes: General Education - Social Science

DEP 4115 Infant Development 3 Credits
Grading Scheme: Letter Grade
Development from the prenatal period through three years of age with a focus on physical cognitive and social-emotional processes. (S)
Prerequisite: PSY 2012
Attributes: General Education - Social Science

DEP 4163 Cognitive Development 3 Credits
Grading Scheme: Letter Grade
Basic principles and theories of cognitive development from infancy through early adolescence. Information-processing, Piagetian and neo-Piagetian theories are covered, as is language, memory, social cognition, concept formation, perception and attention.
Prerequisite: DEP 3053.

DEP 4305 Adolescent Psychology 3 Credits
Grading Scheme: Letter Grade
Biological, psychological and sociological perspectives on adolescence, including the dynamics of socialization, self-concept and identity, peer groups and problems of adolescence. (S)
Prerequisite: DEP 3053.
Attributes: General Education - Social Science

DEP 4464 Psychology of Aging 3 Credits
Grading Scheme: Letter Grade
Topics in gerontology from a life span developmental perspective, including the development of psychological problems of the aged and theoretical and methodological issues in the study of the aged. (S)
Prerequisite: refer to the department.
Attributes: General Education - Social Science

DEP 4704C Research Methods in Developmental Psychology 4 Credits
Grading Scheme: Letter Grade
Methodological approaches to the study of development including experimental and observational techniques. (S) (WR)
Prerequisite: DEP 3053 and STA 2023; Prereq or
Corequisite: STA 3024.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

DEP 4930 Revolving Topics in Developmental Psychology 3 Credits
Grading Scheme: Letter Grade
Advanced study in developmental psychology, including development of language and thought, social-personality development, gerontology and death and dying. Content varies; refer to the schedule of courses for the semester's topic.
Prerequisite: refer to the department.

EAB 3002 Principles of Behavior Analysis 3 Credits
Grading Scheme: Letter Grade
Introduces and surveys the principles, methods, theories, and applications of the experimental analysis of behavior. Although EAB 3002 and EAB 3764 cannot both be taken to fulfill the Group A requirement, both courses may be taken, with one counting as an additional course toward the major. (S)
Prerequisite: PSY 2012.
Attributes: General Education - Social Science

EAB 3764 Applied Behavior Analysis 3 Credits
Grading Scheme: Letter Grade
Extending learning principles to human problems in child development, education, mental health, mental retardation, behavioral medicine, business and industry, aging and environmental applications. Although students cannot take both EAB 3002 and 3764 to fulfill the Group A requirement, they can take both courses; one will count as an additional course toward the major. (S)
Prerequisite: PSY 2012.
Attributes: General Education - Social Science

EAB 4022C Laboratory Procedures in Behavior Analysis 4 Credits
Grading Scheme: Letter Grade
General laboratory procedures and apparatus employed in the experimental analysis of animal behavior. Daily laboratory sessions focus upon experimental treatments, apparatus programming and data analysis. (S) (WR)
Prerequisite: EAB 3002.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

EAB 4184 Behaviorism and Contemporary Society 3 Credits
Grading Scheme: Letter Grade
Consideration of the applications of behavioral science and technology to contemporary society. Emphasis on the implications of behavior theory and the experimental analysis of behavior. (S)
Prerequisite: EAB 3002 or EAB 3764.
Attributes: General Education - Social Science

EAB 4714C Laboratory in Applied Behavior Analysis 4 Credits
Grading Scheme: Letter Grade
Introduces research methods in applied behavior analysis. Computerized measurement and assessment of human behavior in ongoing field studies, data analysis and implementation of experimental techniques. (WR)
Prerequisite: EAB 3002 or EAB 3764 or instructor permission
Attributes: Satisfies 6000 Words of Writing Requirement

EAB 4930 Advanced Seminar in Behavior Analysis 3 Credits
Grading Scheme: Letter Grade
In-depth examination of topics related to behavior analysis. Some examples include developmental and intellectual disabilities, behavioral treatments for substance abuse, behavioral health and exercise, and ethics in behavior analysis. Content varies; refer to the schedule of courses for the semester's topic.
Prerequisite: EAB 3002 or EAB 3764 with minimum grade of C.

EXP 3104 Sensory Processes 3 Credits
Grading Scheme: Letter Grade
Introduces the human senses and their role in perception, how we sense the physical environment and what factors influence our perception of it. (B)
Prerequisite: PSY 2012.
Attributes: General Education - Biological Science

EXP 3604 Cognitive Psychology 3 Credits
Grading Scheme: Letter Grade
Introduces human cognitive abilities, including perceptual and motor skill, attention, learning and memory, language and thinking, and the methods used to study these abilities. (S)
Prerequisite: PSY 2012.
Attributes: General Education - Social Science

EXP 4174C Laboratory in Sensory Processes 4 Credits
Grading Scheme: Letter Grade
Collect, analyze, and evaluate data on specific problems related to sensory and perceptual abilities. (B) (WR)
Prerequisite: (EXP 3104 or EXP 3604) and STA 2023.
Corequisite: STA 3024.
Attributes: General Education - Biological Science, Satisfies 6000 Words of Writing Requirement

GEY 4001 Issues and Concepts in Gerontology 3 Credits
Grading Scheme: Letter Grade
This multidisciplinary overview of the field of aging covers biomedical and health issues, psychosocial factors, applied aspects and policy issues.

PCO 4050 Applied Health Psychology 3 Credits
Grading Scheme: Letter Grade
Introduces health psychology with an emphasis on both health psychology research and practice. It promotes an understanding of the roles of health psychologists in treating/reducing health problems and diseases, promoting health behaviors, and overcoming health care challenges that are major foci in health psychology.
Prerequisite: PSY 2012 with a minimum grade C.

PCO 4113 Positive Psychology 3 Credits
Grading Scheme: Letter Grade
Explores the history of positive psychology and its basic tenets before examining a wide range of topics that relate to happiness and well-being, including positive relationships, positive thinking, life meaning, religion/spirituality, gratitude, altruism, career development, and character strengths.
Prerequisite: PSY 2012 with a minimum grade C.

PCO 4272 Advanced Seminar in Psychology of Women 3 Credits
Grading Scheme: Letter Grade
Advanced seminar on psychological theories and research related to the psychology of women. Also integrates consideration of the intersections of gender, race/ethnicity, class, sexual-orientation, and other dimensions of diversity.
Prerequisite: PSY 2012.

PCO 4911 Undergraduate Research in Psychology of Health Disparities 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

PCO 4930 Seminar in Counseling Psychology 3 Credits
Grading Scheme: Letter Grade
Advanced study in counseling psychology, including psychology of women, studies of the person and studies of self. (S)
Prerequisite: PSY 2012.
Attributes: General Education - Social Science

PPE 3003 Psychology of Personality 3 Credits
Grading Scheme: Letter Grade
Development and organization of personality, description and assessment methods, results of research in personality structure and processes. (S)
Prerequisite: PSY 2012.
Attributes: General Education - Social Science

PPE 4324C Research Methods in Personality Psychology 4 Credits
Grading Scheme: Letter Grade
Emphasizes four aspects of research: measuring psychological variables, designing research projects, statistically analyzing data and writing psychological research reports. (WR)
Prerequisite: PPE 3003 or SOP 3004 with minimum grade of B; STA 2023 or STA 3024 with minimum grade of B; or instructor permission.
Attributes: Satisfies 6000 Words of Writing Requirement

PSB 3002 Physiological Psychology 3 Credits
Grading Scheme: Letter Grade
Survey of the biological basis of behavior with special relevance to psychology. Students cannot take both PSB 3002 and PSB 3340. (B)
Prerequisite: PSY 2012.
Attributes: General Education - Biological Science

PSB 3340 Behavioral Neuroscience 3 Credits
Grading Scheme: Letter Grade
Neuroanatomical, chemical and electrophysiological studies in the biological basis of behavior. Students cannot take both PSB 3002 and PSB 3340 (PSB 3340 is recommended for IDS majors in neurobiological sciences). (B)
Prerequisite: BSC 2010.
Attributes: General Education - Biological Science

PSB 4240 Psychobiology of Abnormal Behavior 3 Credits
Grading Scheme: Letter Grade
Biological theories and models of developmental disabilities, schizophrenia and affective disorders, and the treatments of these conditions.
Prerequisite: PSB 3340 and STA 2023.
Attributes: General Education - Biological Science

PSB 4342 Introduction to Cognitive Neuroscience 3 Credits
Grading Scheme: Letter Grade
The biological foundations of human cognition.
Prerequisite: PSB 3340 or instructor permission.

PSB 4343C Laboratory in Cognitive Neuroscience 4 Credits
Grading Scheme: Letter Grade
Practical training in the foundations of cognitive neuroscience with a strong focus on cognitive experiments with human participants. Engage in theoretical work and practical experiments addressing behavioral, cognitive, and physiological processes relationships between biological processes.
Prerequisite: PSB 3340 and EXP 3604 and PSY 3213L and STA 2023.

PSB 4434 Neurochemistry, Pharmacology and Behavior 3 Credits
Grading Scheme: Letter Grade
Advanced discussion of neurotransmitters, neuromodulators and the action of neuroactive drugs in relation to behavior.
Prerequisite: PSB 3340 or instructor permission.
Attributes: General Education - Biological Science

PSB 4504 Developmental Psychobiology 3 Credits
Grading Scheme: Letter Grade
Principles of neural and behavioral development stressing the correlations among structural, chemical, endocrine and behavioral events during maturation.
Prerequisite: PSB 3340 or instructor permission.
Attributes: General Education - Biological Science

PSB 4654 Chemical Senses and Behavior 3 Credits
Grading Scheme: Letter Grade
Discussion of neural mechanisms and function of chemical senses, and the interaction with physiologic state and motivational aspects.
Prerequisite: PSB 3340 or instructor permission.
Attributes: General Education - Biological Science

PSB 4810 Neurobiology of Learning and Memory 3 Credits
Grading Scheme: Letter Grade
Advanced undergraduate seminar on neurobiological mechanisms of learning and memory, with concepts applied to the ways in which neuroplasticity underlies many aspects of behavior.
Prerequisite: PSB 3340 or instructor permission.

PSB 4823 Principles of Integrative Physiological Psychology 3 Credits
Grading Scheme: Letter Grade
Discussion of the problem of how reflexes become transformed into operant behaviors. Focus on drug and disease states as a way of getting insights into this problem in animals and humans.
Prerequisite: PSB 3340 or instructor permission.

PSB 4934 Special Topics in Physiological Psychology 3 Credits
Grading Scheme: Letter Grade
Selected topics; precise course content will be announced in advance. The course provides an opportunity for in-depth study not offered in other courses.
Prerequisite: PSB 3340 or instructor permission.

PSY 2012 General Psychology 3 Credits
Grading Scheme: Letter Grade
Introduction to psychology; this course is the prerequisite for advanced courses. Emphasis is on psychology as a research enterprise. Students are required to participate as subjects in psychological research or to write a paper on a psychological research article. (S)
Attributes: General Education - Social Science

PSY 3213L Laboratory Methods in Psychology 3 Credits
Grading Scheme: Letter Grade
Introduces experimental design in psychology, data analysis and interpretation of results, and literature reports.
Prerequisite: PSY 2012.

PSY 3626 Psychology of Sustainability 3 Credits
Grading Scheme: Letter Grade
Examines the psychology of sustainability and its impact on human behavior. Provides knowledge of social value orientation, environmental identity, altruism, social capital, and participatory action from a sustainability perspective.
Prerequisite: PSY 2012

PSY 3912 Introduction to Research in Psychology 1-3 Credits
Grading Scheme: S/U
An introduction to current techniques used in psychology research. Students participate in on-going research. (S-U)
Prerequisite: refer to the department.

PSY 4625 The Psychology of Pseudoscience 3 Credits
Grading Scheme: Letter Grade
Studies the psychological causes and consequences of belief in "weird" things.
Prerequisite: PSY 2012 with minimum grade of C.

PSY 4824 Psychology of Eating and Obesity 3 Credits
Grading Scheme: Letter Grade
Comprehensive examination of theory and application of psychological and brain science principles to understanding eating behavior and the contemporary problem of overweight and obesity.
Prerequisite: PSY 2012 with a B or greater and any two of the following: PSB 3002, PSB 3340, CLP 3144, PPE 3003, DEP 3053, SOP 3004, EAB 3002, EAB 3764, or EXP 3604.

PSY 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Qualified students and the instructor or supervisor choose a particular problem for investigation or studying psychology. A formal written report of the work is required.
Prerequisite: minimum of 12 semester credits in psychology.

PSY 4911 Undergraduate Research in Psychology 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research in Psychology. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Psychology.

PSY 4930 Special Topics in Psychology 3 Credits
Grading Scheme: Letter Grade
Topics in psychology that provide opportunity for in-depth study not offered in other courses.
Prerequisite: PSY 2012.

PSY 4940 Introduction to Teaching in Psychology 0-3 Credits
Grading Scheme: S/U
College-level teaching experience in psychology by serving as an undergraduate teaching assistant (TA). Each assistantship is unique, tailored to both the student's skills and knowledge and to the instructor's needs. Responsibilities may include facilitating discussion groups or study sessions, reviewing written assignments and providing evaluative feedback, and responding to student questions and inquiries. (S-U)
Prerequisite: instructor permission and completion of the course for which the student will serve as a teaching assistant.

PSY 4949 Community Work in Psychology 1-3 Credits
Grading Scheme: S/U
Credit is earned by volunteering with community agencies that have been approved by the department. Students work 45 hours per credit earned. (S-U)
Prerequisite: 12 semester credits of psychology.

PSY 4956 Overseas Studies 1 1-15 Credits
Grading Scheme: Letter Grade
This course provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

PSY 4970 Senior Thesis 1-3 Credits
Grading Scheme: S/U
Qualified students must write a formal research proposal to enroll in the course. They also must carry out individual research under the supervision of a faculty member and submit a formal written report. (S-U)
Prerequisite: 24 credits in psychology and instructor permission.

SOP 3004 Social Psychology 3 Credits
Grading Scheme: Letter Grade
A study of the social factors influencing individual behavior. Consideration of socialization, social influence and conformity, social interaction, decision-making, attitudes and opinions. (S)
Prerequisite: PSY 2012.
Attributes: General Education - Social Science

SOP 4214C Research Methods in Social Psychology 4 Credits
Grading Scheme: Letter Grade
Laboratory training and basic experimental techniques and procedures used in the investigation of social-psychological processes. (S) (WR)
Prerequisite: SOP 3004 or STA 2023 or STA 3024 with a minimum grade B.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

SOP 4444 Attitudes and Social Cognition 3 Credits
Grading Scheme: Letter Grade
A consideration of the formation and utilization of knowledge about the social world. Includes a focus on how attitudes and values are defined, measured, formed and changed. (S)
Prerequisite: SOP 3004.
Attributes: General Education - Social Science

SOP 4704 Advanced Social Psychology (Revolving Topics) 3 Credits
Grading Scheme: Letter Grade
In-depth examination of topics in social psychology; refer to the schedule of courses to determine the topic covered each semester. Topics can include health psychology, social motivation, the self, self-presentation, group dynamics, conflict, population psychology, community psychology and the psychology of law. Content varies; refer to the schedule of courses for the semester's topic. (S)
Prerequisite: SOP 3004.
Attributes: General Education - Social Science

SOP 4777 Psychology of Human Sexuality 3 Credits
Grading Scheme: Letter Grade
Examination of human sexuality in the United States from a psychological perspective, including but not limited to the following topics: Sexual desire and sexual responses, sexual development, sexual practices, sexual dysfunctions and sex therapy.
Prerequisite: PSY 2012 with a minimum grade C.

SOP 4842 Legal Psychology 3 Credits
Grading Scheme: Letter Grade
Studies the interaction between individuals and the legal system; considers how the application of various psychological disciplines can inform the legal system.
Prerequisite: PSY 2012

Public Relations

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Students who have not been admitted to the College of Journalism and Communications must have a 3.0 overall grade point average to enroll in courses other than PUR 3000. Students minoring in mass communication generally need department approval to register for PUR courses.

Courses

MMC 1009 Introduction to Media and Communications 1 Credit
Grading Scheme: Letter Grade
Introduces the tools, resources and academic and extra-curricular activities offered by the College of Journalism and Communications. Includes lessons on the history and organization of the college and academic and career preparation.
Prerequisite: 1JM or exploratory major, 2JM, or 3JM classification, or instructor approval.

MMC 2121 Writing Fundamentals for Communicators 3 Credits
Grading Scheme: Letter Grade
One-third of the course is to ensure students have sufficient skill in grammar and punctuation to write with clarity. In two-thirds of the course, students put principles of good writing into practice with short writing assignments that have real-world applications.

MMC 3030 Personal Branding for Communicators 1 Credit
Grading Scheme: Letter Grade
Professional development course that stresses how to communicate and connect as professionals. Emphasizes mastery of writing, speaking, presentation and employment-seeking skills, working with media, handling media interviews and using social media to establish a professional identity.
Prerequisite: 3JM designation.

MMC 3203 Ethics and Problems in Mass Communications 3 Credits
Grading Scheme: Letter Grade
A cross-disciplinary introduction to ethics-relevant situations faced by media professionals. Topics include professional standards of conduct, audience representation and engagement and issues associated with the production, presentation and delivery of messages that reflect the best interests of audiences, clients and stakeholders.
Prerequisite: 2JM designation and ADV 3008, JOU 1001, PUR 3000 or RTV 3001 with minimum grade of C.

MMC 3254 Media Entrepreneurship 1 Credit
Grading Scheme: Letter Grade
Introduces media entrepreneurship with a focus on how digital technologies are transforming industries. Students work in teams to develop new digital media businesses. Develop and pitch ideas, explore market analysis, develop business and financial plans and study social media strategies.
Prerequisite: sophomore standing.

MMC 3420 Consumer and Audience Analytics 3 Credits
Grading Scheme: Letter Grade
Provides practical analytical skill-sets, benefiting those who plan careers in analytics/research, social media, media business, advertising/marketing and public relations.
Prerequisite: Junior standing.

PUR 3000 Principles of Public Relations 3 Credits
Grading Scheme: Letter Grade
The nature and role of public relations in a democratic society, activities of public relations professionals, major influences that affect organizational behavior, and ethics and professional development of practitioners in the private and public sectors. Emphasizes management functions and developing effective public relations strategies.
Prerequisite: sophomore standing.

PUR 3463 Sports Communication 3 Credits
Grading Scheme: Letter Grade
Instruction, analysis, and training in the principles and practice of public relations in sports organizations. Emphasizes media relations and skills essential for sports communication professionals, including handling media interactions across platforms, problems, crises, and integration of positive communications strategies with strategic goals of sports organizations.
Prerequisite: PUR 3000.

PUR 3500 Public Relations Research 3 Credits
Grading Scheme: Letter Grade
Using principles of scientific research to establish, monitor and evaluate communications programs: research planning, theory, design - sampling, surveys, experiments, focus groups, content analysis and participant observation; qualitative and statistical analysis and reporting of research with advanced technologies.
Prerequisite: PUR 3000 with minimum grade of C, statistics with minimum grade of C and junior standing.

PUR 3622 Social Media Management 3 Credits
Grading Scheme: Letter Grade
Social media management explores the use of the internet to build connections, market businesses, and engage audiences. With billions of people connected online, businesses are constantly cultivating new ways to join the online conversation. Highlights the various platforms and best techniques used in social media.
Prerequisite: junior standing.

PUR 3801 Public Relations Strategy 3 Credits
Grading Scheme: Letter Grade
Develops skills in strategic public relations management based on an analysis of current and historical case studies.
Prerequisite: PUR 3000 and PUR 3500 with minimum grades of C.

PUR 4100 Public Relations Writing 4 Credits
Grading Scheme: Letter Grade
Prepares students to meet the demands of the marketplace for persuasive, professional public relations writing skills.
Prerequisite: PUR 3000 and JOU 3101 with minimum grades of C and proficiency in word processing.

PUR 4103 Public Relations Visual Communication 3 Credits
Grading Scheme: Letter Grade
Preparation of visual communications generally produced by public relations departments. Emphasizes printed publications for internal and external audiences. Diversity of publics is emphasized. Includes management's viewpoint on, reasons for and state-of-the-art of publications.
Prerequisite: PUR 3801 and JOU 3101.

PUR 4203 Ethics and Professional Responsibility in Public Relations 3 Credits
Grading Scheme: Letter Grade
Ethical responsibilities of the public relations professional: identifying the moral dimensions of issues that arise in the practice of public relations, increasing the ability to employ reason as a tool for dealing with moral issues, providing knowledge and skills necessary to reach and justify ethical decisions, and eliciting a sense of personal and professional responsibility.
Prerequisite: PUR 3500 and PUR 3000 with minimum grades of C.

PUR 4404C International Public Relations 3 Credits
Grading Scheme: Letter Grade
Analyzes the impact of international activities on the public relations function.
Prerequisite: PUR 3000.

PUR 4410 Principles of Fund Raising 3 Credits
Grading Scheme: Letter Grade
Fund raising: the high demand, low supply occupation unique to the charitable nonprofit subsector.
Prerequisite: PUR 3000 and PUR 3500.

PUR 4442 Public Interest Communications 3 Credits
Grading Scheme: Letter Grade
Delves into strategies to drive social change, strategic planning process for social change communications campaigns, and tools and tactics that make these campaigns effective. Gain insight to the richness of the field and the power that communications has to address problems and profoundly affect peoples lives.
Prerequisite: junior standing.

PUR 4443 Global Social Change Communication 3 Credits
Grading Scheme: Letter Grade
Explains core elements of strategic communications to support global social change through case studies and the application of theory. Taught from the practitioner's perspective, extensive real-life examples provide an opportunity to learn the critical functions of effective communications.

PUR 4800 Public Relations Campaigns 3 Credits
Grading Scheme: Letter Grade
Utilizing the principles and techniques of public relations to create comprehensive campaigns for actual clients.
Prerequisite: PUR 3000, PUR 3801, PUR 4100, VIC 3001 and senior standing.

PUR 4905 Individual Problems 1-3 Credits
Grading Scheme: Letter Grade
Students and the instructor choose a problem or project which will give the student experience in his or her major field.
Prerequisite: at least 10 credits of professional courses and department chair approval.

PUR 4912 Public Relations Undergraduate Research 0-3 Credits
Grading Scheme: Letter Grade
Provides an opportunity for firsthand, supervised research. Mentored but self-directed work that enables individuals or a small group to explore an issue of interest and to communicate their results to others.
Prerequisite: junior standing

PUR 4932 Special Study 1-3 Credits
Grading Scheme: Letter Grade
Variable content provides opportunity for advanced study in the principles, processes and effects of public relations.
Prerequisite: instructor permission.

PUR 4940 Public Relations Internship 1-3 Credits
Grading Scheme: S/U
Student and instructor will select an appropriate work area in public relations for on-the-job training. Student will work a minimum of 100 hours per semester for 1 credit; 200 hours per semester for 2 credits; 300 hours per semester for 3 credits. Progress reports and summary are required. (S-U)
Prerequisite: 9 credits of professional courses (including JOU 3101), a 2.5 GPA and academic advisor, department and college approvals.

VIC 3001 Sight, Sound and Motion 4 Credits
Grading Scheme: Letter Grade
Visual literacy is a prerequisite for success in most areas of mass communication. Teaches fundamentals of design across print, web and multimedia platforms. Also emphasizes how visual forms convey messages to readers.
Prerequisite: sophomore standing.

Rehabilitative Services

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

GEY 4001 Issues and Concepts in Gerontology 3 Credits
Grading Scheme: Letter Grade
This multidisciplinary overview of the field of aging covers biomedical and health issues, psychosocial factors, applied aspects and policy issues.

RCS 3030 Introduction to Rehabilitation and Human Services 3 Credits
Grading Scheme: Letter Grade
An examination of legislative history and social policies as they relate to rehabilitation and human services and their impact on persons with disabilities and exploration of various careers in rehabilitation and human services.
Prerequisite: BSC 2007 or BSC 2005 or BSC 2010, PSY 2012, majors/minors only, with department permission.

RCS 4061 Psychosocial Aspects of Rehabilitation 3 Credits
Grading Scheme: Letter Grade
Introduction to the psychological, social, vocational adjustment barriers and techniques used by individuals and society to overcome these hindrances to rehabilitation.
Prerequisite: APK 2105C, BSC 2005 or BSC 2010, PSY 2012, STA 2023.
Corequisite: HSC 3502, majors/minors only, permission of department.

RCS 4415L Therapeutic Communication Skills Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory for HSC 3661; includes hands-on practice of therapeutic communication skills using simulated patient scenarios.
Prerequisite: HSC 3502, HSA 3111, HSC 4558.
Corequisite: HSC 3661, majors only.

RCS 4451 Rehabilitation Aspects of Substance Abuse 3 Credits
Grading Scheme: Letter Grade
Rehabilitation counseling implications of alcohol and drug use in society and the work place. Emphasis on detection, treatment and follow-up services for individuals in the rehabilitation process.
Prerequisite: HSC 3502, HSC 4558, majors/minors only, and permission of department.

Religion

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

ANT 3153 North American Archaeology 3 Credits
Grading Scheme: Letter Grade
Archaeological materials relating to prehistoric North American cultures. The origins of the North American Indian, Historic Indian and colonial materials. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

ANT 3241 Anthropology of Religion 3 Credits
Grading Scheme: Letter Grade
Cross-cultural survey of beliefs and practices dealing with the supernatural, magic, and religion. Conceptualization of the supernatural. Sacred specialists, their function, and social position. Theories of comparative religion in light of anthropological data. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

CLT 3371 Religions of the Graeco-Roman World 3 Credits
Grading Scheme: Letter Grade
Development, importance and influence of Greek and Roman religion and cult practice. The main literary and epigraphical sources are read in translation. (H and N)
Attributes: General Education - Humanities, General Education - International

LIT 3173 Jewish Literature 3 Credits
Grading Scheme: Letter Grade
Variable topics in the Jewish literary experience, from the biblical narrative and classical tales to Yiddish and Hebrew literature, the modern European novel, and American Jewish fiction. (H and N)
Attributes: General Education - Humanities, General Education - International

PHI 3700 Philosophy of Religion 3 Credits
Grading Scheme: Letter Grade
Studies problems in philosophical theology, including the nature of God, arguments for God's existence, the problem of evil and the relation between faith and reason, from both historical and contemporary perspectives. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

POS 4291 Religion and Politics in the United States 3 Credits
Grading Scheme: Letter Grade
Investigates the role of religious institutions, values and communities in contemporary American political life. (WR)
Prerequisite: refer to the department.
Attributes: Satisfies 6000 Words of Writing Requirement

REL 2000 Introduction to Religion 3 Credits
Grading Scheme: Letter Grade
Introduces the historical underpinnings, geographical movement, development and current expression of a variety of religious traditions.

REL 2071 Sustainability and Religion 3 Credits
Grading Scheme: Letter Grade
Examines the relationship between religion and sustainability and explores how the worlds different religious traditions address the social, economic and environmental dimensions of sustainability. Topics include social and environmental justice, sustainable consumption and sustainable agriculture. Case studies highlight multiple religious perspectives, especially in Latin America and south Asia. (H) (WR)
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

REL 2104 Environmental Ethics 3 Credits
Grading Scheme: Letter Grade
Explores competing secular and religious views regarding human impacts on and moral responsibilities toward nature and of the key thinkers and social movements in contention over them. (H) (WR)
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

REL 2121 American Religious History 3 Credits
Grading Scheme: Letter Grade
Historical inquiry into the ideological origins and social context of American religious life. (H and D)
Attributes: General Education - Diversity, General Education - Humanities

REL 2166 Religion and the Environmental Crisis 3 Credits
Grading Scheme: Letter Grade
Examines the relationship between religion, nature and ethics in different religious traditions. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

REL 2210 Hebrew Scriptures 3 Credits
Grading Scheme: Letter Grade
History, literature, and beliefs of the Israelites from the Biblical text in the light of modern scholarship. (H)
Attributes: General Education - Humanities

REL 2240 New Testament 3 Credits
Grading Scheme: Letter Grade
Introduces various literary, social, and religious contexts of the books of the New Testament. (H)
Attributes: General Education - Humanities

REL 2300 Introduction to World Religions 3 Credits
Grading Scheme: Letter Grade
Origin, historical development, and key figures, concepts, symbols, practices and institutions of Judaism, Christianity, Islam, Hinduism, Buddhism, and East Asian traditions, including Taoism, Shinto, and Confucianism. (H and N)
Attributes: General Education - Humanities, General Education - International

REL 2301 Introduction to Hindu Culture 3 Credits
Grading Scheme: Letter Grade
History, performing arts, and cultural expressions of the Hindu traditions of India and in the diaspora.

REL 2315 Religion in Asia 3 Credits
Grading Scheme: Letter Grade
Studies the religious dimensions of human culture, focusing on Asia: Hinduism, Buddhism, Confucianism, Taoism, Shinto. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

REL 2341 Introduction to Buddhism 3 Credits
Grading Scheme: Letter Grade
Introduces doctrines, practices, and institutions that shaped the essential identity of Buddhism as a pan-Asian religion that transcended ethic, cultural, and linguistic boundaries. (H)
Attributes: General Education - Humanities

REL 2362 Introduction to Islam 3 Credits
Grading Scheme: Letter Grade
Historical introduction to Islamic tradition. The foundational elements of the tradition, based on the life of Prophet Muhammad and the text of the Qur'an and on an examination of subsequent Islamic expressions. (H and N)
Attributes: General Education - Humanities, General Education - International

REL 2388 Indigenous Religions of the Americas 3 Credits
Grading Scheme: Letter Grade
Religious values, attitudes, and norms of Native American peoples within the United States. (H) (WR)
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 4000 Words of Writing Requirement

REL 2502 Introduction to Christianity 3 Credits
Grading Scheme: Letter Grade
Includes origins and development of Christianity, beliefs and rituals, global diversity, Christianity-inspired literature, and engagement with contemporary cultural issues.

REL 2600 Jews, Judaism, and Jewishness 3 Credits
Grading Scheme: Letter Grade
Multidisciplinary approach to the Jewish experience from its Biblical origins to modern times.

REL 2930 Topics in Religion 3 Credits
Grading Scheme: Letter Grade
Variable topics at an introductory level. (H)
Attributes: General Education - Humanities

REL 3022 Myth and Ritual 3 Credits
Grading Scheme: Letter Grade
Theory and method in the anthropological and religious studies of myths, rituals, religious specialists, and religious movements using examples from cultures throughout the world.

REL 3076 Cults and New Religious Movements 3 Credits
Grading Scheme: Letter Grade
Investigates significant new religious movements such as the People's Temple and the Branch Davidians. The origins, internal structure, popularity, and functioning of these movements as well as claims of manipulation and discrimination. (S)
Attributes: General Education - Social Science

REL 3082 Global Ethics 3 Credits
Grading Scheme: Letter Grade
Explores ethical dimensions of global social, political, and environmental issues. Introduction to and application of diverse theoretical approaches in philosophical and religion ethics to contemporary global issues such as human rights, war and peace, climate change, and public health.
Attributes: General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

REL 3098 Religion Medicine and Healing 3 Credits
Grading Scheme: Letter Grade
Non-conventional healers and healing practices in religious traditions around the globe.
Prerequisite: sophomore standing.

REL 3099 Spirituality and Health Care 3 Credits
Grading Scheme: Letter Grade
Investigation of the relationship between religious and spiritual beliefs, alternative and traditional medical practice, and Western biomedicine, in historical and contemporary context.
Prerequisite: sophomore standing or higher.

REL 3103 Religion and Nature in North America 3 Credits
Grading Scheme: Letter Grade
Investigates ways that religion and nature have evolved and influenced one another during the cultural, political, and environmental history of North America since European contact. (H)
Attributes: General Education - Humanities

REL 3108 Religion and Food 3 Credits
Grading Scheme: Letter Grade
Explores the relationship between food and religion by investigating food in the context of specific religious traditions, such as Hinduism, and examines food as a moral and ethical category in religious and secular contexts, e.g., organic and locavore. (D and H) (WR)
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 2000 Words of Writing Requirement

REL 3120 Religion and the American Immigrant Experience 3 Credits
Grading Scheme: Letter Grade
Offers a survey of the roles that religion has played in some significant movements of people into and out of the U.S. from the pre-Colonial period to the present.

REL 3139 African-American Religion 3 Credits
Grading Scheme: Letter Grade
Interdisciplinary study of African-American religious experience from its beginnings in the 17th century to the present. (H)
Attributes: General Education - Humanities

REL 3140 Religion and Society 3 Credits
Grading Scheme: Letter Grade
Interaction of religion and social institutions; the ways religious groups influence and are influenced by the socio-cultural environment. (S) (WR)
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

REL 3148 Religion and Violence 3 Credits
Grading Scheme: Letter Grade
Explores the problem of violence that springs from religious roots in Western, Asian, African, and Native American traditions. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 4000 Words of Writing Requirement

REL 3154 Gender and Nature 3 Credits
Grading Scheme: Letter Grade
Examines the relationship between gender and nature as it is constructed in different religious traditions.

REL 3160 Religion and Science 3 Credits
Grading Scheme: Letter Grade
Examines the relationship between religion, science, and philosophy in different religious traditions, focusing on the West. (H) (WR)
Prerequisite: sophomore standing.
Attributes: General Education - Humanities, Satisfies 4000 Words of Writing Requirement

REL 3169 Religion and Environmental Movements of the Global South 3 Credits
Grading Scheme: Letter Grade
Explores the religious dimensions of environmental movements in the global South, including seed-saving campaigns in India and Mexico, Liberation Theology and the Green Belt Movement. Examines global environmental issues; e.g., loss of biodiversity, climate change and privatization of water that disproportionately affect the poor and marginalized.
Prerequisite: sophomore status or higher.

REL 3171 Ethics in America 3 Credits
Grading Scheme: Letter Grade
Examines ethical issues facing contemporary U.S. society, with a focus on cultural and religious diversity. Introduces major religious and philosophical frameworks as ways of understanding and addressing these issues. (D)
Prerequisite: sophomore standing or above.
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 2000 Words of Writing Requirement

REL 3179 Race, Religion and Rebellion 3 Credits
Grading Scheme: Letter Grade
Examines the interplay of religion, race, and rebellion in the various revolts, insurrections, and social movements of African Americans in the United States.

REL 3191 Death and the Afterlife: Perspectives from World Religions 3 Credits
Grading Scheme: Letter Grade
Examines conceptions of death and the afterlife from the perspectives of various religious traditions and popular culture. Considers certain ethical issues related to death and how some American religious traditions engage with such issues.
Prerequisite: sophomore standing.

REL 3213 Hebrew Bible as Literature 3 Credits
Grading Scheme: Letter Grade
Intensive introduction to the literary study of the Hebrew Bible within the context of ancient Near Eastern literature and history.

REL 3234 Wisdom in the Hebrew Bible 3 Credits
Grading Scheme: Letter Grade
Examines ancient Israelite and early Jewish wisdom literature alongside similar literature from ancient Mesopotamia and Egypt.

REL 3249 The Christian Gospels 3 Credits
Grading Scheme: Letter Grade
Redaction-critical study of selected portions of the canonical Gospels with particular attention to the development of traditions about Jesus in the earliest church. (H) (WR)
Prerequisite: REL 2210 or REL 2240, or instructor permission.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

REL 3252 Acts, Paul, and Early Christianity 3 Credits
Grading Scheme: Letter Grade
Examines the narrative of the beginning of Christianity according to the Book of Acts, especially as it describes the career of Paul. The second half focuses on the letters of Paul as an alternative source for understanding the earliest forms of Christianity. (H) (WR)
Prerequisite: REL 2210 or REL 2240, or instructor permission.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

REL 3291 Gender and the Hebrew Bible 3 Credits
Grading Scheme: Letter Grade
Critical examination of the literary representation and historical realities of gender and sexuality in ancient Israel through close readings of selected texts from the Hebrew Bible.

REL 3294 Apocalypticism 3 Credits
Grading Scheme: Letter Grade
Explores Jewish and Christian apocalypticism through a survey of apocalyptic texts from the Hebrew Bible, Second Temple Jewish literature (including the Dead Sea Scrolls), and the New Testament. (H)
Attributes: General Education - Humanities

REL 3318 Chinese Religions 3 Credits
Grading Scheme: Letter Grade
Comprehensive historical survey of the main religious traditions in China, with focus on Confucianism, Taoism, and Buddhism.

REL 3321 Early Judaism and Christianity 3 Credits
Grading Scheme: Letter Grade
Examines the Jewish-Christian encounter. The historical interaction between Judaism and Christianity including how each group symbolized the other, and the practical implications of the representations. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

REL 3330 Religions of India 3 Credits
Grading Scheme: Letter Grade
Historical look at the major religious traditions of the Indian subcontinent. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

REL 3333 Gods, Sages and Kings: Mythology 3 Credits
Grading Scheme: Letter Grade
Survey and analysis of important narrative genres and myth cycles of premodern India, featuring selections from the Vedas, Puranas, and the Indian epics, read in translation. (H)
Attributes: General Education - Humanities

REL 3335 Hindu Sacred Text/Social-Ritual Context 3 Credits
Grading Scheme: Letter Grade
Investigates the development, use, authority, and performance of sacred texts in ritual, drama, festival, and music within the Hindu tradition. (H and N)
Prerequisite: any course in Asian religion, Asian scripture, or REL 4024.
Attributes: General Education - Humanities, General Education - International

REL 3336 Religion in Modern India 3 Credits
Grading Scheme: Letter Grade
Studies religious traditions of India and their interpretation in relation to conditions of the modern world. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

REL 3344 Chinese Buddhism 3 Credits
Grading Scheme: Letter Grade
Comprehensive historical survey of Chinese Buddhism. Explores the growth and transformation of the beliefs, doctrines, practices and institutions that shaped the historical trajectory of Chinese Buddhism.

REL 3370 Religions of Africa 3 Credits
Grading Scheme: Letter Grade
Religion and culture in Africa, the encounter of Islam and Christianity with indigenous religions, and diasporic reformulations. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

REL 3381 Religion in Latin America 3 Credits
Grading Scheme: Letter Grade
Main religious traditions in Latin America: native religions, Catholicism in its various forms, Protestantism, and African-based religions. (H and N)
Attributes: General Education - Humanities, General Education - International

REL 3463 God: Beliefs, Concepts, Issues 3 Credits
Grading Scheme: Letter Grade
Investigates central issues connected with the concept of God in Western religious traditions. Topics include arguments for the existence of God, the problem of evil, theodicy, faith, and reason. (H)
Attributes: General Education - Humanities

REL 3492 Religion Ethics and Nature 3 Credits
Grading Scheme: Letter Grade
Religious perspectives on nature and the environment that focus on different theological understandings of the natural world; approaches to using natural resources and efforts to understand human responsibility for the realm of nature. (H)
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

REL 3563 American Catholicism 3 Credits
Grading Scheme: Letter Grade
American Catholic experience from an historical and sociological perspective. (H) (WR)
Attributes: General Education - Humanities, Satisfies 4000 Words of Writing Requirement

REL 3693 Judaism and Nature 3 Credits
Grading Scheme: Letter Grade
Surveys Jewish traditions about nature, the environment, and ecology.

REL 3931 Junior Seminar 3 Credits
Grading Scheme: Letter Grade
Intensive introduction to the study of religion. Required of all religion majors during the junior year.

REL 3938 Special Topics in Religion 3 Credits
Grading Scheme: Letter Grade
Special topics in religion. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

REL 4092 Ethics, Utopias and Dystopias 3 Credits
Grading Scheme: Letter Grade
Examines relationships between ethics and utopias in literature, religious communities, and millenarian movements. (H) (WR)
Prerequisite: instructor permission.
Attributes: General Education - Humanities, Satisfies 2000 Words of Writing Requirement

REL 4134 Religion in Southern Culture 3 Credits
Grading Scheme: Letter Grade
Development of religious life in the South through its history, with particular reference to its interaction with regional culture. (H) (WR)
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

REL 4141 Religion and Social Change 3 Credits
Grading Scheme: Letter Grade
Investigates diverse relations between religion and processes of social change. Uses both theoretical and ethnographic case studies to explore issues raised by religion's social role in the U.S., Britain, Asia, Latin America, and Africa. (S) (WR)
Attributes: General Education - Social Science, Satisfies 4000 Words of Writing Requirement

REL 4145 Women in Religion and Society 3 Credits
Grading Scheme: Letter Grade
Provides an understanding of both the oppressive and liberatory aspects for women of the three monotheistic religions: Judaism, Christianity, and Islam.
Prerequisite: instructor permission.

REL 4168 Religion, Nature and Social Change 3 Credits
Grading Scheme: Letter Grade
Explores relationships between religion, nature, and society as a means to understand how these relationships reflect and shape social relations among people.
Prerequisite: junior standing or above.

REL 4177 Special Topics in Religion and Ethics 3 Credits
Grading Scheme: Letter Grade
Special topics in religion and ethics. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

REL 4188 Special Topics in Religion and Ethics 3 Credits
Grading Scheme: Letter Grade
Examines the ethical, religious, and political dimensions of the relationship between ideas and practices, including the divergence between expressed values and actual practices, and some possible reasons for this divergence.

REL 4209 Dead Sea Scrolls and Early Jewish Literature 3 Credits
Grading Scheme: Letter Grade
Explores the varieties of literature that arose within Judaism from 250 BCE to 220 CE, including selections from the Dead Sea Scrolls, the OT Pseudepigrapha, Philo, and Josephus. (H)
Prerequisite: refer to the department.
Attributes: General Education - Humanities

REL 4221 The Pentateuch 3 Credits
Grading Scheme: Letter Grade
In-depth study of the Pentateuch (Genesis-Deuteronomy) in light of modern biblical scholarship.
Prerequisite: instructor permission.

REL 4337 Women in Hindu Tradition 3 Credits
Grading Scheme: Letter Grade
Studies women in Hindu traditions, focusing on their participation in temple practices, religious scholarship, and practices of piety and austerity. Pays special attention to female poets, scholars, ascetics, and patrons in Hindu religions and society. (H and N) (WR)
Prerequisite: one course in Hinduism.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

REL 4345 Chan/Zen Buddhism 3 Credits
Grading Scheme: Letter Grade
Comprehensive inquiry of the history, doctrines, and practices of the Chan/Zen tradition of East Asian Buddhism.
Prerequisite: introduction to Buddhism, Chinese religions, or instructor permission.

REL 4349 Buddhist Meditation 3 Credits
Grading Scheme: Letter Grade
Theory and practice of Buddhist meditation; focuses on the systems of meditation practice developed by the Theravada school in Sri Lanka and the main traditions of Chinese Buddhism.
Prerequisite: introduction to Buddhism or instructor permission.

REL 4361 Women and Islam 3 Credits
Grading Scheme: Letter Grade
Provides an interdisciplinary understanding of the history and role of women in Islam.
Prerequisite: instructor permission.

REL 4367 The History of Islam in the Modern World 3 Credits
Grading Scheme: Letter Grade
History of Muslims from the 18th century to the present with particular attention to certain critical issues and interpretations in relation to conditions of the modern world. (H and N) (WR)
Prerequisite: REL 2362.
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

REL 4368 Global Islam 3 Credits
Grading Scheme: Letter Grade
Addresses the need for a deeper understanding of the diversity of Muslim cultures/societies in the contemporary global context; combines topical and geographical approach and studies Islam as it intersects with broader social, cultural, political, and economic dynamics.
Prerequisite: Sophomore standing.

REL 4371 Islam in Africa 3 Credits
Grading Scheme: Letter Grade
Development of Muslim societies in Africa from the 7th to the early 20th century with a focus on the religious dynamics that led to the formation of a multitude of African Muslim cultures.
Prerequisite: sophomore standing or higher.

REL 4382 Religion and Politics in Latin America 3 Credits
Grading Scheme: Letter Grade
Relationship between religion and politics in Latin America from a variety of perspectives and approaches. Addresses millenarian movements, gender, ethnicity and class, as well as church-state dynamics. (S and N)
Attributes: General Education - International, General Education - Social Science

REL 4393 Islam in the Americas 3 Credits
Grading Scheme: Letter Grade
Provides knowledge of Islam in the Americas from the 15th century to the present. (H) (WR)
Prerequisite: instructor permission.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

REL 4490 Special Topics in Religious Thought 3 Credits
Grading Scheme: Letter Grade
Special topics in religious thought. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

REL 4491 Sacred Geographies: Place, Space and Pilgrimage in South Asia 3 Credits
Grading Scheme: Letter Grade
Focuses on reading primary texts in translation, supplemented with recent ethnographies, to explore various conceptions of sacred space and place, including movement to, from and between them, in the Indic imagination.
Prerequisite: REL 2315 or REL 2341 or REL 3022.

REL 4611 Israelite Religion 3 Credits
Grading Scheme: Letter Grade
Comparative survey of literary, historical, ritual, and material aspects of ancient Israelite religion with evidence from Canaan, Mesopotamia, Greece, and Rome.
Prerequisite: instructor permission.

REL 4905 Individual Work 1-5 Credits
Grading Scheme: Letter Grade
Majors or other advanced undergraduates who wish to supplement regular coursework by individual studies under guidance may apply to a member of the faculty for individual work.
Prerequisite: 9 credits in religion or department permission.

REL 4930 Special Topics in Religious Thought 3 Credits
Grading Scheme: Letter Grade
Special topics in religious thought.

REL 4932 Thesis Seminar in Religion 3 Credits
Grading Scheme: Letter Grade
Thesis preparation option for honors-level students.

REL 4933 The Comparative Study of Religion 3 Credits
Grading Scheme: Letter Grade
The history and major methods that have contributed to the modern study of religion. (H) (WR)
Prerequisite: junior or senior standing and department permission.
Attributes: General Education - Humanities, Satisfies 6000 Words of Writing Requirement

REL 4936 Special Topics in Religious Studies 3 Credits
Grading Scheme: Letter Grade
Advanced study for those with proper preparation of selected topics involving one or more religious traditions. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

REL 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

SRK 1120 Beginning Sanskrit 1 4 Credits
Grading Scheme: Letter Grade
First of a two-semester series that introduces the Sanskrit language through the Devanagari Script.

SRK 1121 Beginning Sanskrit 2 4 Credits
Grading Scheme: Letter Grade
Second of a two-semester series that introduces the Sanskrit language through the Devanagari Script with an emphasis on reading, writing, grammar and oral recitation.

SRK 2200 Intermediate Sanskrit 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of Sanskrit to increase knowledge of vocabulary by developing reading and translation skills.
Prerequisite: SRK 1121 with a minimum grade of C, or equivalent.

SRK 2201 Intermediate Sanskrit 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate Sanskrit to increase knowledge of vocabulary by developing reading and translation skills.
Prerequisite: SRK 2200 with a minimum grade of C, or equivalent.

SRK 3410 Advanced Sanskrit 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of Sanskrit to further develop skills in reading and understanding texts.
Prerequisite: SRK 2201 with a minimum grade of C, or equivalent.

SRK 3411 Advanced Sanskrit 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced Sanskrit to further develop skills in reading and understanding texts.
Prerequisite: SRK 3410 with a minimum grade of C, or equivalent.

SYO 4200 Sociology of Religion 3 Credits
Grading Scheme: Letter Grade
The sociological perspective on religions, including religious ideologies and rituals. Social aspects of the religious and religious aspects of the social. Organized religions and religions. (S and N)
Prerequisite: SYG 2000.
Attributes: General Education - International, General Education - Social Science

Russian | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

RUS 1130 Introduction to Russian Language and Culture 1 5 Credits
Grading Scheme: Letter Grade
RUS 1130 and its sequel, RUS 1131, offer a comprehensive introduction to Russian, using interactive methods to develop competence in speaking, listening, reading, writing and cultural interaction.

RUS 1131 Introduction to Russian Language and Culture 2 5 Credits
Grading Scheme: Letter Grade
Continuation of introductory language and cultural study.
Prerequisite: RUS 1130 with minimum grade of C or S, or the equivalent.

RUS 2220 Intermediate Russian 1 4 Credits
Grading Scheme: Letter Grade
Intermediate study with exercises in sentence patterns, vocabulary building and oral and written discourse in Russian.
Prerequisite: None

RUS 2340 Russian for Heritage Learners 3 Credits
Grading Scheme: Letter Grade
A practical overview of Russian grammar and writing for those with significant bilingual speaking and listening backgrounds. Devotes special attention to reading, writing and vocabulary development.
Prerequisite: instructor or undergraduate coordinator permission.

RUS 3240 Oral Practice in Russian 3 Credits
Grading Scheme: Letter Grade
Development of advanced speaking and listening skills in conversational Russian.
Prerequisite: None

RUS 3400 Intermediate Russian 2 4 Credits
Grading Scheme: Letter Grade
Continued study with exercises in sentence patterns, vocabulary building and sustained oral and written discourse.
Prerequisite: RUS 2220 or the equivalent.

RUS 4000 Advanced Russian 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills (speaking, listening, reading, and writing) with attention to more complex structures.
Prerequisite: None

RUS 4001 Advanced Russian 2 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills (speaking, listening, reading, and writing) with attention to more complex structures.
Prerequisite: RUS 4000 with a minimum grade of C or S or the equivalent as proven by a placement test.

RUS 4300 Advanced Grammar and Composition 3 Credits
Grading Scheme: Letter Grade
Study of advanced grammar and composition in Russian.
Prerequisite: one 3000-level Russian course or the equivalent.

RUS 4411 Advanced Oral Practice 3 Credits
Grading Scheme: Letter Grade
Continued development of advanced speaking and listening skills based on authentic written, audio and video texts from contemporary Russian culture.
Prerequisite: RUS 3240.

RUS 4501 Russian Studies Research Seminar 3 Credits
Grading Scheme: Letter Grade
Introduces significant trends and ideas in Russian literary, cultural, historical, and critical studies. Develop the ability to understand and produce critical scholarly argument in a variety of formats, including class discussion, formal presentation and a written research project.
Prerequisite: None

RUS 4502 Language and Culture of the Russian Business World 3 Credits
Grading Scheme: Letter Grade
Combines advanced language training, a practical introduction to the language and culture of the contemporary Russian business world, and extensive practice translating and interpreting texts used in business settings. Focuses on issues such as starting companies and joint ventures, advertising, and setting up and conducting official meetings and telephone calls. Basic Russian business ethics are also studied.
Prerequisite: RUW 3101, RUW 4341 or the equivalent, or instructor permission.

RUS 4503 Theory and Practice of Russian-English Translation 1 3 Credits
Grading Scheme: Letter Grade
The first part of a two-part translation series focusing on the theory and practice of conveying word semantics in Russian-English and English-Russian translation.
Prerequisite: RUW 3101, RUW 4341 or instructor permission.

RUS 4504 Theory and Practice of Russian-English Translation 2 3 Credits
Grading Scheme: Letter Grade
The second part of the translation series focusing on the theory and practice of conveying sentence and paragraph semantics in Russian-English and English-Russian translation.
Prerequisite: RUW 3101, RUW 4341 or instructor permission.

RUS 4700 Structure of the Russian Language 3 Credits
Grading Scheme: Letter Grade
Introduction to the phonology, morphology and syntax of contemporary standard Russian from a formal and semantic standpoint. Also includes the development of Russian word stress and a survey of the development of Russian verb tense, aspect and mood.
Prerequisite: one 3000-level Russian course or the equivalent.

RUS 4780 Corrective Phonetics and Intonation 3 Credits
Grading Scheme: Letter Grade
Develops advanced-level phonetic and intonational skills via a variety of genres of authentic texts from Russian culture.
Prerequisite: RUW 3101, RUW 4341 or instructor permission.

RUS 4905 Individual Work in Russian 1-3 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course. Available only by special arrangement.
Prerequisite: RUS 2220 or the equivalent.

RUS 4911 Undergraduate Research in Russian Language 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research in Russian Language. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Russian Language.

RUS 4930 Special Topics in Russian 3-9 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in Russian studies. New, experimental, or one-time offerings.

RUS 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

RUT 3101 Russian Masterpieces 3 Credits
Grading Scheme: Letter Grade
Introduces the Russian literature of the 19th-21st centuries. Read some of the most influential works by Pushkin, Gogol, Tolstoy, Dostoevsky, Chekhov, Nabokov, Pasternak and Sorokin, thereby gaining essential knowledge of Russian history, culture and the authors personal lives. Readings and discussions in English. (H and N)
Prerequisite: sophomore standing.
Attributes: General Education - Humanities, General Education - International

RUT 3441 Tolstoy and Dostoevsky 3 Credits
Grading Scheme: Letter Grade
Introduction to the major 19th century Russian novelists and their contemporaries. Readings and discussions in English. (H)
Attributes: General Education - Humanities

RUT 3442 Themes from Russian Literature 3 Credits
Grading Scheme: Letter Grade
An examination of Russian everyday life and institutions of the 19th and 20th centuries through the media of literature and film. (H and N)
Attributes: General Education - Humanities, General Education - International

RUT 3452 Russian Literature of the Twentieth Century 3 Credits
Grading Scheme: Letter Grade
Authors, movements and genres in Russian literature from the Revolution of 1917 to the present. Readings and discussions in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

RUT 3500 Russian Cultural Heritage 3 Credits
Grading Scheme: Letter Grade
An introduction to the culture of pre-revolutionary Russia. Philosophical, religious, artistic and literary currents in relation to Western civilization. Readings and discussions in English. (H and N)
Attributes: General Education - Humanities, General Education - International

RUT 3501 Contemporary Russian Culture and Society 3 Credits
Grading Scheme: Letter Grade
Patterns of continuity and change in the philosophical and cultural values of Russian society as they explain the Soviet Union and contemporary Russia. Readings and discussions in English. (H)
Attributes: General Education - Humanities

RUT 3503 Violence and Terror in the Russian Experience 3 Credits
Grading Scheme: Letter Grade
An examination of the impact of violence and terror on the human condition as reflected and expressed in well-known works of Russian literature (fiction and historical narratives), art and film. Taught in English. No knowledge of other languages required. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 2000 Words of Writing Requirement

RUT 3504 Russia Today 3 Credits
Grading Scheme: Letter Grade
Patterns of continuity and change in the philosophical and cultural values of Russian society as they explain the Soviet Union and contemporary Russia. Readings and discussions in English. (H and N) (WR)
Attributes: General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

RUT 3506 Creative Lives: Writers, Artists, and Extraordinary People 3 Credits
Grading Scheme: Letter Grade
Explores Russian visions of creativity and creative people in Russian culture by placing them in dialogue with broader European and American models and considerations of creativity.
Prerequisite: sophomore standing or higher, or instructor permission.

RUT 3514 Russian Fairy Tales 3 Credits
Grading Scheme: Letter Grade
A critical introduction to Russian fairy tales and folklore and an examination of the aesthetic, social, cultural and psychological values they reflect. (H and N)
Attributes: General Education - Humanities, General Education - International

RUT 3524 Russia through Film 3 Credits
Grading Scheme: Letter Grade
Examines Russian life, institutions, and the arts against the background of period-defining historical, political, and cultural events from the early twentieth century to the present day as reflected and refracted in some emblematic feature films, documentaries, and animated cartoon films produced in the Soviet Union and post-Soviet Russia.
Prerequisite: sophomore standing or higher, or instructor permission.

RUT 3530 Russia's Struggle with Nature: Legacies of Destruction and Preservation 3 Credits
Grading Scheme: Letter Grade
Explores competing concepts of nature in modern Russian culture through works of Russian fiction and non-fiction in translation. Emphasis falls on environmental problems in Russia and the former Soviet Union (desiccation of the Aral Sea, pollution of Lake Baikal, the Chernobyl nuclear accident etc.) and their impact on Russian thought.
Prerequisite: sophomore standing or instructor permission.

RUT 3600 The Twentieth Century through Slavic Eyes 3 Credits
Grading Scheme: Letter Grade
Introduction to the literature, film and culture of 20th century Eastern and Central Europe. (H and N)
Attributes: General Education - Humanities, General Education - International

RUT 3930 Variable Topics in Russian Studies 1-9 Credits
Grading Scheme: Letter Grade
Variable topics in Russian studies, taught in English translation.

RUT 4440 Pushkin and Gogol 3 Credits
Grading Scheme: Letter Grade
Major works of Russian literature written the first half of the 19th century. Readings and discussions in English. (H)
Attributes: General Education - Humanities

RUT 4450 Russian Modernism 3 Credits
Grading Scheme: Letter Grade
Introduction to the major artistic contributions of Russian modernism in the context of the political, social, and cultural upheavals of late Imperial to Stalinist Russia (1890 - 1939). (H and N)
Attributes: General Education - Humanities, General Education - International

RUT 4911 Undergraduate Research in Russian Studies, English Translation 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

RUT 4930 Variable Topics in Russian Studies 1-9 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in Russian studies, taught in English translation.
Prerequisite: one 3000-level Russian course or instructor permission.

RUW 3101 Reading Russian Literature 3 Credits
Grading Scheme: Letter Grade
An in-depth study of the vocabulary, structures, reading strategies and cultural background needed for understanding and interpreting a broad range of Russian prose fiction. (H)
Prerequisite: RUS 3400 or the equivalent.
Attributes: General Education - Humanities

RUW 4301 Russian Drama and Poetry 3-6 Credits
Grading Scheme: Letter Grade
Study of plays and poems by major Russian writers from the 19th and 20th centuries. Readings in Russian.

RUW 4341 Russian Media Culture 3 Credits
Grading Scheme: Letter Grade
An in-depth study of the history and recent trends in the Russian mass media and web-based technology and their impact on culture and society.
Prerequisite: RUS 3400 or RUS 4001 with minimum grade of C.

RUW 4370 Russian Short Prose 3 Credits
Grading Scheme: Letter Grade
Critical study of selected Russian short stories. Readings in Russian. (H)
Attributes: General Education - Humanities

RUW 4630 Reading Eugene Onegin: Pushkin and Nabokov 3 Credits
Grading Scheme: Letter Grade
An in-depth study of one of Russia's most revered literary works, combining close readings of Pushkin's original with analyses of operatic, artistic and cinematic adaptations by Chaikovsky, Nabokov and others. Readings and discussions primarily in Russian.
Prerequisite: RUW 3101 or the equivalent, or instructor permission.

RUW 4911 Undergraduate Research in Russian Studies, Target Language 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

RUW 4932 Selected Readings in Russian 1-3 Credits
Grading Scheme: Letter Grade
Special topic, author, genre or movement in Russian literature. (H)
Prerequisite: one 3000-level course or the equivalent.
Attributes: General Education - Humanities

Sociology

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

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Courses

SYA 4110 Development of Sociological Thought 4 Credits
Grading Scheme: Letter Grade
Comparative study of the principal contributors to the development of sociology. Emphasizes relevance of these ideas to contemporary social thought and current social issues.
Prerequisite: nine credits of sociology.

SYA 4300 Methods of Social Research 4 Credits
Grading Scheme: Letter Grade
Introduces the scientific method and its application to social science research. Includes research design, data collection and computer data analysis and interpretation.
Prerequisite: 4 credits of sociology, STA 2023.

SYA 4506 Writing in Sociology 3 Credits
Grading Scheme: Letter Grade
Helps sociology majors improve the quality of writing professional sociological reports.
Prerequisite: sociology majors only.

SYA 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
Examines topics/areas/issues not covered in regularly scheduled courses.
Prerequisite: nine credits of sociology and department permission.

SYA 4911 Undergraduate Research in Sociology 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

SYA 4930 Special Study 3 Credits
Grading Scheme: Letter Grade
Various specialized topics/areas/issues not covered in regularly scheduled courses.
Prerequisite: none

SYA 4931 Department Honors in Sociology 3 Credits
Grading Scheme: Letter Grade
Department honors course.

SYA 4941 Internship in Applied Sociology 3 Credits
Grading Scheme: Letter Grade
Supervised individual sociology practicum / internship in a social services organization.
Prerequisite: six credits of sociology and department permission.

SYD 3395 Sociology of Globalization 3 Credits
Grading Scheme: Letter Grade
Examination of diverse forms of worldwide interconnection, including economic ties, political ties, and ecological ties. A study of how global interdependencies and inequalities link the fates of people around the planet and how ?Globalization? is a form of political discourse that shapes policy-making and alters how lives are lived globally.
Prerequisite: SYG 2000.

SYD 3410 Urban Sociology 3 Credits
Grading Scheme: Letter Grade
The development of cities and their spatial and social structure. Critical problems and solutions. Integration of people in the social setting. Social implications of city planning. (S and N)
Prerequisite: SYG 2000 or department permission.
Attributes: General Education - International, General Education - Social Science

SYD 3700 Minorities in American Society 3 Credits
Grading Scheme: Letter Grade
Sociological analysis of the structure, social processes and efforts to effect change of racial, ethnic and religious minorities. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

SYD 3805 Gender and Health 3 Credits
Grading Scheme: Letter Grade
Examines gender differences and similarities in health and illness in the United States. Uses a broad focus on health and illness across the life course and integrates social and biomedical determinants of health.

SYD 4020 Population 3 Credits
Grading Scheme: Letter Grade
Characteristics and trends in the populations of the contemporary world. Historical and current growth patterns related to resource conservation, food production and modernization in various regions of the world. (S and N)
Attributes: General Education - International, General Education - Social Science

SYD 4021 U.S. Population Issues 3 Credits
Grading Scheme: Letter Grade
Introduces major issues related to U.S. population size, growth and composition. Covers historical and contemporary population issues and introduces basic demographic measures and sources of data.

SYD 4510 Environment and Society 3 Credits
Grading Scheme: Letter Grade
Social foundations of environmental problems and social responses to environmental issues, including contestation, conflicts and movements.

SYD 4701 Nationalism and Ethnicity in Europe 3 Credits
Grading Scheme: Letter Grade
Comparative study of the roles played by nationalism and ethnic identity in modern Europe. (S and N)
Attributes: General Education - International, General Education - Social Science

SYD 4800 Sociology of Gender 3 Credits
Grading Scheme: Letter Grade
Examines the social construction of gender in everyday life; how gender structures social institutions such as the economy and mass media; and how gender shapes the distribution of resources, power and privilege in ways that benefit men over women. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

SYD 4808 Reproduction and Gender 3 Credits
Grading Scheme: Letter Grade
Examines contemporary reproductive issues in the U.S. How culture and social structures shape the reproductive realm and how the social psychology of individuals' influence their reproductive experiences. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

SYD 4810 Sociology of Women 3 Credits
Grading Scheme: Letter Grade
Examines the gender-based system of social stratification that exists in Western societies. Focuses on social institutions such as education, family, religion and economy. (S and D)
Prerequisite: SYG 2000 or SYG 2430.
Attributes: General Education - Diversity, General Education - Social Science

SYD 4820 Men and Masculinities 3 Credits
Grading Scheme: Letter Grade
Focuses on issues related to traditional and emerging images of masculinity in the past, present and future. Emphasizes relationships between social forces and males' everyday life experiences across the life-span. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

SYG 2000 Principles of Sociology 3 Credits
Grading Scheme: Letter Grade
Introduces sociology as a social science and analysis of American society. Culture, socialization, deviance, bureaucracy, population, urbanization, social stratification, minorities and other topics. (S)
Attributes: General Education - Social Science

SYG 2010 Social Problems 3 Credits
Grading Scheme: Letter Grade
The development, analysis and treatment of social problems. Crime, poverty, prejudice and discrimination, pollution and environmental despoliation, drug abuse and mental illness. Emphasizes factors in U.S. society that cause social problems. (S)
Attributes: General Education - Social Science

SYG 2430 Marriage and Family 3 Credits
Grading Scheme: Letter Grade
Development of masculine and feminine roles. Recent changes in premarital interaction, such as dating, sexual involvement, coed dorm living, living together. Mutual adjustment and parenthood. Alternative family structures. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

SYG 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

SYO 3534 Poverty 3 Credits
Grading Scheme: Letter Grade
The social, cultural, economic, political and psychological implications of being poor. Sources of poverty in the structure and operation of society and the consequences of poverty for society. Current and feasible policies for easing the problem in the contemporary United States with reference to its past and to other nations, both developed and underdeveloped.
Prerequisite: SYG 2000.

SYO 4102 American Families 3 Credits
Grading Scheme: Letter Grade
The impact of rapid social changes upon families, including race, class and ethnic variations. The liberation of women and changing family roles. Alternative life styles and the futures of families.
Prerequisite: SYG 2000.

SYO 4200 Sociology of Religion 3 Credits
Grading Scheme: Letter Grade
The sociological perspective on religions, including religious ideologies and rituals. Social aspects of the religious and religious aspects of the social. Organized religions and religions. (S and N)
Prerequisite: SYG 2000.
Attributes: General Education - International, General Education - Social Science

SYO 4300 Political Sociology 3 Credits
Grading Scheme: Letter Grade
Applies sociological analysis to political themes in a comparative context. (S)
Prerequisite: SYG 2000.
Attributes: General Education - Social Science

SYO 4352 Consumption, Economy and Society 3 Credits
Grading Scheme: Letter Grade
Introduces the field of economic sociology, defined as the study of economic life using the sociological imagination. (S)
Prerequisite: SYG 2000 or instructor permission.
Attributes: General Education - Social Science

SYO 4400 Medical Sociology 3 Credits
Grading Scheme: Letter Grade
Effects of group characteristics in the causation, amelioration and prevention of mental and physical illness and social influences in medical education, medical practice and hospital administration.
Prerequisite: refer to the department.

SYO 4403 Sociol Envnmt Hlth 3 Credits
Grading Scheme: Letter Grade

SYO 4530 Social Inequality 3 Credits
Grading Scheme: Letter Grade
The unequal distribution among individuals and groups of wealth, power and prestige; the effect of class systems upon society; the effect of class membership on individuals; social mobility. (S and D)
Prerequisite: SYG 2000.
Attributes: General Education - Diversity, General Education - Social Science

SYO 4540 Organizations 3 Credits
Grading Scheme: Letter Grade
The behavior of individuals and systems in formal organizations and bureaucratic models: government, hospitals, churches, schools, industry as manifestations of a common principle.
Prerequisite: 12 credits of sociology or the equivalent foundations in education administration, industrial and systems engineering, management or political science.

SYP 3000 Society and the Individual 3 Credits
Grading Scheme: Letter Grade
Relation of the individual to the social environment with special reference to person perception, self-formation, self-disclosure, attitude formation and change, and group structure and processes. Social forces that shape the lives of individuals and how individuals adjust to modern society. (S)
Prerequisite: SYG 2000.
Attributes: General Education - Social Science

SYP 3510 Deviance 3 Credits
Grading Scheme: Letter Grade
Introduces the sociology of deviance: the definition of deviance; types of deviant behavior such as suicide, drugs and alcohol abuse, sexual deviance, deviant subcultures and violence; differential labeling and institutional processing; and implications of social control. (S)
Attributes: General Education - Social Science

SYP 4060 Sociology of Human Sexuality 3 Credits
Grading Scheme: Letter Grade
Theoretical and conceptual issues, empirical research and social policies germane to human sexuality in the U.S. Topics include sexual identity and orientation; sexual behavior; social control of sexuality; social implications of STDs and HIV/AIDS; and the relationship between sexuality and the socio-political process.
Prerequisite: SYG 2000.

SYP 4520 Criminology 3 Credits
Grading Scheme: Letter Grade
Nature and causes of crime, criminality and criminal careers. Research in crime and delinquency. Sociological analysis of criminal law, criminal justice, rehabilitation, punishment, prevention and deterrence.
Prerequisite: SYG 2000.

SYP 4550 Alcohol, Drugs and Society 3 Credits
Grading Scheme: Letter Grade
Overview of alcohol and drug use and abuse in modern society. Emphasis on social characteristics, social processes, policy and programs in socially accepted and deviant use.

SYP 4730 Sociology of Aging and Life Course 3 Credits
Grading Scheme: Letter Grade
Social and personal conditions of post-retirement years; family and housing patterns; income, leisure, health and group processes; evaluating institutional care for the aged. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

Soil and Water Sciences

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AGG 4502 Nanotechnology in Food, Agriculture, and Environment 3 Credits
Grading Scheme: Letter Grade
Application of nanotechnology in crop production, food processing and preservation, and environmental remediation; behavior of engineered nanoparticles in plant, soil and the environment, and environmental toxicology and regulations of engineered nanoparticles.
Prerequisite: SWS 3022.

ALS 3133 Agricultural and Environmental Quality 3 Credits
Grading Scheme: Letter Grade
Analysis of effects of agriculture on environmental quality; emphasis on agricultural wastes and practices; potential for using agricultural systems for disposal of other wastes; effects of pollution on the agricultural environment. (P)
Attributes: General Education - Physical Science

ALS 4154 Global Agroecosystems 3 Credits
Grading Scheme: Letter Grade
Focuses on the principles of agroecology and presentation of topics that integrate ecological with agricultural principles to optimize resource conservation, productivity, societal benefit, and profitability.
Prerequisite: SWS 3022 and ALS 3153 and AGR 4214C or the equivalent.

SWS 2007 The World of Water 3 Credits
Grading Scheme: Letter Grade
The full range of water issues including abundance and quality of water in the environment, water policy and conflict. (P)
Attributes: General Education - Physical Science

SWS 2008 Land and Life 3 Credits
Grading Scheme: Letter Grade
Relationships between human activities and soil and environmental quality. Lectures concentrate on the fundamentals of soil and environmental science using case studies to illustrate basic principles. Intended for non-majors. (B)
Attributes: General Education - Biological Science

SWS 3022 Introduction to Soils in the Environment 3 Credits
Grading Scheme: Letter Grade
Fundamentals of soil science emphasizing the physical, chemical and biological properties of soils in relation to growth of native and agricultural plants and environmental uses. (P)
Attributes: General Education - Physical Science

SWS 3022L Introduction to Soils in the Environment Laboratory 1 Credit
Grading Scheme: Letter Grade
Hands-on exposure to soils-related properties and processes.

SWS 3023L Soil Judging 2 Credits
Grading Scheme: Letter Grade
Students learn to inventory soil properties and record them on a standard form used by USDA soil scientists. Students travel locally to the field and also attend a 3-day regional soil judging contest where they learn to classify soils using soil taxonomy and to interpret soil quality and behavior from soil properties.

SWS 4116 Environmental Nutrient Management 3 Credits
Grading Scheme: Letter Grade
Consumption, existing reserves, formulation, chemical and physical properties, and manufacture of commercial fertilizers; basic chemical reactions of fertilizer materials with the soil and the fate of the nutritional elements whether it be loss by leaching, plant uptake, fixation or soil retention. (P)
Prerequisite: SWS 3022.
Attributes: General Education - Physical Science

SWS 4180 Earth System Analysis 3 Credits
Grading Scheme: Letter Grade
Analysis of global-scale interdependences between climate, biogeochemical cycles and humans using a systems approach.
Prerequisite: MAC 2233 or PHY 2048.

SWS 4204 Urban Soil and Water Systems 3 Credits
Grading Scheme: Letter Grade
Issues and opportunities related to soil and water quality in urban systems. Students will learn and discuss consequences of human population growth on soil and water systems in urban areas.
Prerequisite: SWS 3022.

SWS 4207 Sustainable Agricultural and Urban Land Management 3 Credits
Grading Scheme: Letter Grade
Agricultural and urban water quality issues in Florida, their bases, land and nutrient management strategies and the science and policy behind Best Management Practices (BMPs). Students will learn to evaluate BMP research and analyze its role in determining practices and policies that protect water quality.
Prerequisite: SWS 3022 or instructor permission.

SWS 4223 Environmental Biogeochemistry 3 Credits
Grading Scheme: Letter Grade
To gain understanding of the earth as a biogeochemistry system in the context of global change.
Prerequisite: (BSC 2005 and BSC 2005L) or (BSC 2010 and BSC 2010L) and (CHM 2045 and CHM 2045L).

SWS 4231C Soil, Water and Land Use 3 Credits
Grading Scheme: Letter Grade
Suitabilities/limitations of soils for different uses; using soil surveys and related information to plan use/management of land; behavior of water in soils/landscapes; policies for and implications of water allocation among urban, agricultural and natural resource uses. (P)
Attributes: General Education - Physical Science

SWS 4233 Soil and Water Conservation 3 Credits
Grading Scheme: Letter Grade
Soil/water resources, historical erosions and sediment problems, geologic vs. accelerated erosion, erosion prediction equations and government conservation programs; water conservation, irrigation, drainage and salinity; stormwater management; and case studies in erosion and sedimentation.

SWS 4244 Wetlands 3 Credits
Grading Scheme: Letter Grade
Introduces wetland ecosystems with emphasis on principles and problems associated with their functions and values as related to water quality. Students become familiar with basic and applied concepts in hydrology, soils and vegetation of both constructed and natural wetlands.

SWS 4245 Water Resource Sustainability 3 Credits
Grading Scheme: Letter Grade
The quantitative effects of human impacts on hydrologic ecosystems (aquifers, watersheds, coastal zones, lakes and wetlands). Case studies illustrate detrimental effects of unsustainable resource utilization and beneficial management strategies.

SWS 4303C Soil Microbial Ecology 3 Credits
Grading Scheme: Letter Grade
Occurrence and activities of soil microorganisms and their influence on soil productivity and environmental quality.
Prerequisite: BSC 2005 and BSC 2005L or BSC 2010 and BSC 2010L.

SWS 4307 Ecology of Waterborne Pathogens 3 Credits
Grading Scheme: Letter Grade
Survival strategies, gene regulation and metabolism of waterborne pathogens. Methods for microbe detection and control.
Prerequisite: MCB 3020 or MCB 3023 or MCB 4203, or equivalent.

SWS 4451 Soil and Water Chemistry 3 Credits
Grading Scheme: Letter Grade
Physico-chemical processes such as mineral weathering and formation, sorption and ion exchange. Also includes introduction to diffuse double-layer theory.

SWS 4504 Aquatic Toxicology: Science and Applications 3 Credits
Grading Scheme: Letter Grade
Introduces foundational knowledge and concepts of the field of aquatic toxicology. Examines how environmental and chemical properties influence the fate and bioavailability of contaminants in aquatic environments; introduces principles of toxicology and methods used to study aquatic toxicology, as well as applications of knowledge gained from aquatic toxicology studies.
Prerequisite: ((BSC 2005 and BSC 2005L) or (BSC 2010 and BSC 2010L)) and ((CHM 2045 and CHM 2045L) or (CHM 2046 and CHM 2046L)).

SWS 4550 Soils, Water and Public Health 3 Credits
Grading Scheme: Letter Grade
Important instances where soil and water science and public health overlap. Students develop skills required for competency in both disciplines.
Prerequisite: CHM 2045, CHM 2046 and BSC 2010, or instructor permission.

SWS 4602C Soil Physics 3 Credits
Grading Scheme: Letter Grade
Physical processes and properties of soils that influence optimum growth of plants as well as potential for groundwater pollution from agrochemicals and applied wastes. Primary emphasis is given to basic concepts of transport and retention for water and solutes; secondary emphasis is given to air and heat in the root zone of the soil profile; and limited attention is given to mechanical properties of soil that affect the proliferation of plant roots. (P)
Prerequisite: MAC 2311, PHY 2004 and SWS 3022.
Attributes: General Education - Physical Science

SWS 4715C Environmental Pedology 4 Credits
Grading Scheme: Letter Grade
Study and analysis of soil in the environment and the factors responsible for soil formation and geographic distribution. Development of hydric soil criteria and hydric soil indicators. Emphasis on morphology or hydric/ non-hydric soils and introduction to diagnostic horizons and soil classification. Course also includes abs on soil field techniques.
Prerequisite: SWS 3022.

SWS 4720C GIS in Soil and Water Science 3 Credits
Grading Scheme: Letter Grade
Basic, practical understanding of GIS concepts, technical issues and applications to soil and water science using ArcGIS geographic information system.

SWS 4800 Environmental Soil and Water Monitoring Techniques 3 Credits
Grading Scheme: Letter Grade
Introduces students to the principles, objectives and practices in environmental monitoring. Students will learn the proper techniques in planning for monitoring projects, sampling design, sample collection, basic principles of laboratory analysis and basic data analysis. Quality assurance and quality control requirements are introduced and emphasized.
Prerequisite: BSC 2010 and BSC 2010L; CHM 2045 and CHM 2045L.

SWS 4900 Supervised Extension Experience in Soil and Water Sciences 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

SWS 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Selected topics for qualified students.
Prerequisite: 8 credits of soils and instructor permission.

SWS 4911 Supervised Research in Soil and Water Science 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application. (S-U)

SWS 4915 Honors Thesis Research in Soil and Water Science 0-3 Credits
Grading Scheme: S/U
Independent research in soil and water science leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

SWS 4932 Special Topics in Soil and Water Science 1-3 Credits
Grading Scheme: Letter Grade
Variable topics designed to meet students' needs and interests.

SWS 4941 Full-time Practical Work Experience in Soil and Water Science 1-3 Credits
Grading Scheme: S/U
Practical work must be a new experience and related to field of study. (S-U)
Prerequisite: prior arrangement with advisor, and department and dean permissions.

Spanish and Portuguese Studies

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More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

Catalan

CAT 3180 Introduction to Catalan 1 3 Credits
Grading Scheme: Letter Grade
Acquire a working knowledge of the Catalan language and the aspects of Catalan culture and society. No previous experience with Catalan required, although knowledge of another Romance language (through intermediate level) is required.
Prerequisite: completion of second year in another Romance language or instructor permission.

CAT 3182 Introduction to Catalan 2 3 Credits
Grading Scheme: Letter Grade
To expand the linguistic and cultural knowledge acquired in CAT 3180 and to further develop an understanding of Catalan art, culture and society. Emphasis on speaking, listening, reading and writing.
Prerequisite: CAT 3180 or instructor permission.

CAT 3280 Intermediate Catalan 3 Credits
Grading Scheme: Letter Grade
Review and extend knowledge of grammar, vocabulary, culture; develop oral and written skills; begin reading literary works; and consolidate knowledge of Catalan culture.
Prerequisite: CAT 3182 or equivalent.

CAT 3281 Intermediate Catalan 2 3 Credits
Grading Scheme: Letter Grade
Second semester in the intermediate Catalan language and culture sequence, continuing the study of the language and culture of Catalonia with emphasis on linguistic proficiency and cultural knowledge.
Prerequisite: CAT 3180 or equivalent.

Portuguese

LIT 2000 Introduction to Literature 3 Credits
Grading Scheme: Letter Grade
Examines the important role literature has played in individuals' lives and in society, presenting a range of literary styles and genres, from different countries and historical periods. Special attention paid to development of critical skills of analysis and interpretation. (H)
Prerequisite: ENC 1101
Attributes: General Education - Humanities

POR 1130 Beginning Portuguese 1 5 Credits
Grading Scheme: Letter Grade
First course in the basic Portuguese language sequence, which emphasizes the language as spoken in Brazil. Develops basic communication skills in reading, writing, speaking and listening. Not open to proficient speakers of Spanish.

POR 1131 Beginning Portuguese 2 5 Credits
Grading Scheme: Letter Grade
Continuation of the series in basic Portuguese, which emphasizes the language as spoken in Brazil. Develops basic communication skills in reading, writing, speaking and listening. Not open to proficient speakers of Spanish.
Prerequisite: POR 1130 with minimum grade of C or S, or the equivalent.

POR 3010 Introduction to Portuguese and Brazil: Accelerated 5 Credits
Grading Scheme: Letter Grade
Designed for those with knowledge of another Romance language (usually Spanish) through study or home experience. A complete introduction to the language, assuming that students have no previous study of Portuguese. It also satisfies the CLAS and Journalism foreign-language requirement in one semester.
Prerequisite: FRE 3300, SPN 3300 or equivalent.

POR 3224 Applied Portuguese 1-5 Credits
Grading Scheme: Letter Grade
Portuguese-language reading and discussions to accompany and complement courses of diverse content offered in other departments. Readings and discussions are in Portuguese to develop vocabulary and fluency related to the content of the companion course and to provide an international perspective on the issues of the main course. (N)
Prerequisite: instructor permission.
Attributes: General Education - International

POR 3242 Oral and Written Practice 3 Credits
Grading Scheme: Letter Grade
Intermediate-level course emphasizing all four skills; consists of printed and electronic readings, writing essays and taking notes, oral discussions and presentations, lab activities and grammar review.
Prerequisite: POR 1131, POR 3010 or the equivalent.

POR 3243 Composition and Conversation 3 Credits
Grading Scheme: Letter Grade
An intermediate-level course with continued expansion of vocabulary, review of essential grammar and structures and development of reading, writing and speaking skills.
Prerequisite: POR 1131 or POR 3010, or the equivalent.

POR 3451 Introduction to Portuguese Translation and Interpretation 3 Credits
Grading Scheme: Letter Grade
Improve Portuguese language skills through application of the principles of translation while gaining information on professional opportunities in the field.
Prerequisite: POR 3010 or the equivalent.

POR 3500 Luso-Brazilian Civilization 3 Credits
Grading Scheme: Letter Grade
Introduction to the central historical events, political institutions, intellectual currents and artistic movements in the foundation and development of Portugal, Brazil and Lusophone Africa. Preview of topics studied in other literature and culture courses. (H and N)
Prerequisite: POR 3242 or the equivalent, or instructor permission.
Attributes: General Education - Humanities, General Education - International

POR 3502 Brazilian Culture 3 Credits
Grading Scheme: Letter Grade
Introduction to the study of modern cultural forms, including folk pageantry, performance arts, literature, film and television.
Prerequisite: POR 3242 or instructor permission.

POR 3701 Introduction to Portuguese Linguistics 3 Credits
Grading Scheme: Letter Grade
An introduction to the basic concepts and analytical techniques of linguistics, applied specifically to the Portuguese language. Practices the linguistic analysis of the sounds, words and sentences of Portuguese, with relevant comparisons to Spanish and English where applicable.
Prerequisite: POR 3242 or POR 3243 with minimum grade of C.

POR 3930 Topics in Brazilian Culture and Civilization 3 Credits
Grading Scheme: Letter Grade
Variable topics in Brazilian culture and civilization, including racial identity, feminism, regionalism, music, film, art, religion, sports, and more.
Prerequisite: POR 3010.

POR 4420 Advanced Composition and Syntax 3 Credits
Grading Scheme: Letter Grade
A language course that distinguishes Portuguese from related Romance tongues, including the more difficult aspects of grammar and structure, specialized vocabulary, different stylistic registers, and application of these to translation and original composition.
Prerequisite: POR 3243 or the equivalent (intermediate proficiency).

POR 4906 Honors Thesis 1-3 Credits
Grading Scheme: Letter Grade
Honors thesis preparation.
Prerequisite: 4000-level POW or POR course.

POR 4956 Overseas Studies 3-6 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

POW 3100 Introduction to Literature in Portuguese 3 Credits
Grading Scheme: Letter Grade
A survey of literature written in Portuguese by major authors from Portugal, Brazil and Lusophone Africa. Primary emphasis falls on narrative and comparisons of developments in Portugal and the former colonies. (H and N)
Prerequisite: POR 3243 or the equivalent, or instructor permission.
Attributes: General Education - Humanities, General Education - International

POW 3130 Introduction to Brazilian Literature 1 3 Credits
Grading Scheme: Letter Grade
A survey of literary production in Brazil 1500-1900, including the literature of discovery, colonial manifestations and the major works of Romanticism, Realism and Parnassianism. (H and N)
Prerequisite: POR 3243 or the equivalent, or instructor permission.
Attributes: General Education - Humanities, General Education - International

POW 3131 Introduction to Brazilian Literature 2 3 Credits
Grading Scheme: Letter Grade
A survey of 20th-century literary movements: premodernism, modernism and regionalism in prose and poetry, with an emphasis on the fiction of contemporary writers. (H and N)
Prerequisite: POR 3243 or the equivalent, or program coordinator permission.
Attributes: General Education - Humanities, General Education - International

POW 4380 Contemporary Brazilian Poetry 3 Credits
Grading Scheme: Letter Grade
A study of lyric, both literary and musical, in the second half of the 20th century, including experimental trends, political verse, popular music and youth movements.
Prerequisite: introductory knowledge of Brazilian literature.

POW 4382 Brazilian Drama 3 Credits
Grading Scheme: Letter Grade
A survey of the milestones of Brazilian theatre with an emphasis on 20th century plays. In addition to the plays, the course also presents the theoretical framework and political context of theatrical production in Brazil. (H and N)
Prerequisite: introductory knowledge of Brazilian literature.
Attributes: General Education - Humanities, General Education - International

POW 4450 The Modernist Movement in Brazilian Literature 3 Credits
Grading Scheme: Letter Grade
Readings in fiction, poetry and essay of the nationalist and avant-garde decades of the 1920s and 1930s. Discussions are designed to situate Brazilian letters in diverse national and international contexts. Literary works are complemented by considerations of concurrent production in music and the arts.
Prerequisite: introductory knowledge of Brazilian literature.

POW 4454 Nineteenth-Century Brazilian Literature 3 Credits
Grading Scheme: Letter Grade
The major literary trends of the 19th century, primarily in fiction (Romanticism, Realism and Naturalism), poetry and essays, to familiarize students with representative works of each literary movement and genre. (H and N)
Prerequisite: introductory knowledge of Brazilian literature.
Attributes: General Education - Humanities, General Education - International

POW 4480 Contemporary Brazil Narrative 3 Credits
Grading Scheme: Letter Grade
Rotating topics may include studies in genre (the short story, the novel), theme (science fiction) or author (Rubern Fonseca, Clarice Lispector, Guimaraes Rosa). (H and N)
Attributes: General Education - Humanities, General Education - International

POW 4700 Machado de Assis and His Contemporaries 3 Credits
Grading Scheme: Letter Grade
Machado de Assis, the 19th-century master of Brazilian letters, produced writings of every literary genre, including literary criticism, poetry and drama, in addition to his ingenious short stories and novels. This course surveys Machado's work and compares his novels to those of his contemporaries. (H and N)
Prerequisite: introductory knowledge of Brazilian literature.
Attributes: General Education - Humanities, General Education - International

POW 4905 Individual Work 1-3 Credits
Grading Scheme: Letter Grade
Individual work in Portuguese.
Prerequisite: instructor permission.

POW 4911 Undergraduate Research in Portuguese 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

POW 4930 Readings in Luso-Brazilian Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Diverse subjects in Brazilian and Portuguese studies, including the Brazilian Northeast, the Afro-Brazilian world, the culture of dictatorship, popular genres and popular music. In addition to readings of original texts, course may incorporate sound recordings and film.
Prerequisite: introductory knowledge of Luso-Brazilian literature.

PRT 3391 Brazilian Cinema 4 Credits
Grading Scheme: Letter Grade
Critical analysis of Brazilian film and the relationship of content to social and political forces.

PRT 3930 Special Topics in Lusophone Culture and Civilization 1-4 Credits
Grading Scheme: Letter Grade
Variable topics in Brazilian, Portuguese or Luso-African culture and civilization, including globalism, regionalism, song literature, film and video, negritude, women's movements and Amazonian discourse.

Spanish

CAT 3180 Introduction to Catalan 1 3 Credits
Grading Scheme: Letter Grade
Acquire a working knowledge of the Catalan language and the aspects of Catalan culture and society. No previous experience with Catalan required, although knowledge of another Romance language (through intermediate level) is required.
Prerequisite: completion of second year in another Romance language or instructor permission.

CAT 3182 Introduction to Catalan 2 3 Credits
Grading Scheme: Letter Grade
To expand the linguistic and cultural knowledge acquired in CAT 3180 and to further develop an understanding of Catalan art, culture and society. Emphasis on speaking, listening, reading and writing.
Prerequisite: CAT 3180 or instructor permission.

CAT 3280 Intermediate Catalan 3 Credits
Grading Scheme: Letter Grade
Review and extend knowledge of grammar, vocabulary, culture; develop oral and written skills; begin reading literary works; and consolidate knowledge of Catalan culture.
Prerequisite: CAT 3182 or equivalent.

CAT 3281 Intermediate Catalan 2 3 Credits
Grading Scheme: Letter Grade
Second semester in the intermediate Catalan language and culture sequence, continuing the study of the language and culture of Catalonia with emphasis on linguistic proficiency and cultural knowledge.
Prerequisite: CAT 3180 or equivalent.

IDS 2334 Chemistry in the Cocina Latina 3 Credits
Grading Scheme: Letter Grade
Combines the science of chemistry with the humanistic aspects of the Spanish language and Hispanic cultures and histories, while exploring Hispanic cultures and language through the foods and recipes that define them, and the science of those foods by studying chemical reactions inherent in cooking.

LIT 2000 Introduction to Literature 3 Credits
Grading Scheme: Letter Grade
Examines the important role literature has played in individuals' lives and in society, presenting a range of literary styles and genres, from different countries and historical periods. Special attention paid to development of critical skills of analysis and interpretation. (H)
Prerequisite: ENC 1101
Attributes: General Education - Humanities

SPN 1130 Beginning Spanish 1 5 Credits
Grading Scheme: Letter Grade
First in the basic Spanish language sequence, developing basic communication skills in reading, writing, speaking and listening.

SPN 1131 Beginning Spanish 2 5 Credits
Grading Scheme: Letter Grade
Second in the basic Spanish language sequence, continuing development of basic communication skills in reading, writing, speaking and listening.

SPN 1134 Accelerated Spanish Review 5 Credits
Grading Scheme: Letter Grade
Provides a rapid review of basic communicative Spanish as preparation for intermediate Spanish courses. For those with previous Spanish study but insufficient placement scores to move to the 2000 level.

SPN 1180 Elementary Spanish: Review and Progress 3 Credits
Grading Scheme: Letter Grade
Alternative to SPN 1130, for students who have previous experience in Spanish. Covers the material of SPN 1130 and meets three times weekly. SPN 1131 follows this course.
Prerequisite: refer to placement section. Not open to bilingual speakers of Spanish.

SPN 2200 Intermediate Spanish 1 3 Credits
Grading Scheme: Letter Grade
First of the intermediate Spanish language sequence. Develops intermediate skills in reading, writing, speaking and listening. Builds communicative competence and enhances social and cultural awareness of the Spanish-speaking world. Taught entirely in Spanish.

SPN 2201 Intermediate Spanish 2 3 Credits
Grading Scheme: Letter Grade
Second course in the intermediate Spanish language sequence. Continues development of intermediate skills in reading, writing, speaking and listening. Continues to enhance communicative competence and social and cultural awareness. Taught entirely in Spanish.
Prerequisite: SPN 2200 with a minimum grade of C or the equivalent placement scores on SAT II, IB or AP tests or the equivalent placement score or the equivalent coursework as approved by the undergraduate coordinator. Not open to bilingual speakers of Spanish.

SPN 2240 Intensive Communication Skills 3 Credits
Grading Scheme: Letter Grade
Develops the ability to understand oral and written Spanish and is required of all majors and minors who are not bilinguals, unless they initially placed above this level. Preparation for 3000-level courses.
Prerequisite: SPN 2201 with a minimum grade of C or the equivalent placement scores on SAT II, IB or AP tests or the equivalent placement score or the equivalent coursework as approved by the undergraduate coordinator. Not open to bilingual speakers of Spanish.

SPN 2270 Intermediate Spanish Abroad 3 Credits
Grading Scheme: Letter Grade
Equivalent to SPN 2240, the obligatory first course in the Spanish major and minor for non-bilinguals. Preparation for upper-division Spanish courses. Promotes cultural awareness and develops an active command of the language by means of intensive interaction with the people and current issues and events of the Spanish-speaking host city and surrounding area.
Prerequisite: SPN 2201 or the equivalent placement scores on SAT II, IB or AP tests, and undergraduate coordinator permission.

SPN 2271 Accelerated Intermediate Spanish Abroad 3 Credits
Grading Scheme: Letter Grade
Students acquire intermediate communicative skills in Spanish through interaction in Spanish-speaking communities. Offered abroad only, course depends on intensive language immersion for successful acquisition in a shortened period of time. Successful completion is comparable to having passed SPN 2200 and SPN 2201.
Prerequisite: SPN 1131 or SPN 1134 with a minimum grade of C or the equivalent placement scores on SAT II, IB or AP tests.

SPN 2340 Introduction to Reading and Writing Spanish for Heritage Learners 3 Credits
Grading Scheme: Letter Grade
Intermediate-level course for heritage learners with some speaking and listening ability from exposure outside the classroom but with little or no formal exposure to the language. Emphasizes reading and vocabulary, introduces grammar and orthographic rules.
Prerequisite: placement test or department-administered test for Heritage Learners.

SPN 2442 Intensive Intermediate Spanish for Business 3 Credits
Grading Scheme: Letter Grade
An intensive intermediate-level course for students interested in learning Spanish in the context of the business world. Includes business vocabulary and business practices in the Hispanic world.
Prerequisite: SPN 1131 or the equivalent.

SPN 2471 Accelerated Spanish Abroad 1-5 Credits
Grading Scheme: Letter Grade
Reviews major aspects of grammar in a context that enhances understanding of the Spanish or Spanish-American way of life and modes of expression. Reading comprehension and composition are developed through readings on diverse topics related to Latin America and Spain.
Prerequisite: SPN 2200 or the equivalent placement scores on SAT II, IB, or AP tests, and section coordinator or undergraduate advisor permission.

SPN 3036 Spanish for Health Professions 3 Credits
Grading Scheme: Letter Grade
Provides students with the linguistic and cultural skills necessary for effectively treating Spanish-speaking patients with medical emergencies, illnesses and other health issues.
Prerequisite: SPN 3300 or SPN 3350 with minimum grade of C, or equivalent linguistic knowledge as determined by instructor.

SPN 3224 Applied Spanish 1-5 Credits
Grading Scheme: Letter Grade
Spanish-language section designed to accompany and complement courses offered in other departments. Readings and discussions are in Spanish to develop vocabulary and fluency related to the content of the companion course and to provide an international perspective on the issues of the main course. (N)
Prerequisite: SPN 3300 or SPN 3350, or undergraduate coordinator permission.
Attributes: General Education - International

SPN 3300 Spanish Grammar and Composition 1 3 Credits
Grading Scheme: Letter Grade
Intensive language course to develop mastery of grammatical principles, increase vocabulary and enhance writing and composition skills. This course (or SPN 3350 for bilingual speakers) is a prerequisite for most 3000/4000-level Spanish courses.
Prerequisite: SPN 2240; can be taken concurrently with SPN 2240 or SPN 3301. Not open to bilingual speakers of Spanish.

SPN 3301 Spanish Grammar and Composition 2 3 Credits
Grading Scheme: Letter Grade
Continues review of Spanish grammar begun in SPN 3300 and concentrates on intensive writing practice in expository Spanish. Highly recommended for Spanish majors and minors who are not taking the bilingual sequence; a prerequisite for SPN 4420, Advanced Composition and Syntax.
Prerequisite: SPN 3300; can be taken concurrently with SPN 3300. Not open to bilingual speakers of Spanish.

SPN 3350 Spanish Grammar and Composition for Heritage Learners 3 Credits
Grading Scheme: Letter Grade
Emphasizes aspects of the language and grammar for those who have learned Spanish through exposure outside the classroom in addition to some formal exposure in school settings, and whose speaking and comprehension abilities are generally more developed than their writing and reading skills.
Prerequisite: placement test or department-administered test for heritage learners or heritage program coordinator permission or SPN 2340 with minimum grade of B.

SPN 3392 Spanish Conversation, Film and Culture 3 Credits
Grading Scheme: Letter Grade
Enhances students' oral skills in Spanish through movie reviews, oral reports, debates and class discussions. Introduces students to current social, economic and political issues in Latin-America and Spain through the critical analysis of contemporary Spanish-language films.
Prerequisite: SPN 2240 or placement test. Not open to bilingual speakers of Spanish.

SPN 3414 Advanced Spanish Conversation 2 3 Credits
Grading Scheme: Letter Grade
Authentic materials of the Hispanic world are used to improve listening, comprehension and speaking skills. Oral expression is used in conversation and in formal and informal presentations on a variety of topics.
Prerequisite: SPN 2240 or instructor permission. Not open to bilingual speakers of Spanish.

SPN 3440 Commercial Spanish 3 Credits
Grading Scheme: Letter Grade
An introduction to the vocabulary and business practices of the Hispanic world. Emphasis on oral and written business communications. Overview of cultural differences within the Hispanic world and between the U.S. and the Hispanic world, with emphasis on the business impact. (S and N)
Prerequisite: SPN 3300 or SPN 3350, or the equivalent as approved by the undergraduate coordinator.
Attributes: General Education - International, General Education - Social Science

SPN 3443 Marketing and Advertising in the Spanish-Speaking World 3 Credits
Grading Scheme: Letter Grade
An introduction to the related fields of marketing and advertising as they pertain to the Spanish-speaking world. Focuses on marketing campaigns and advertising strategies, in print and on television. Emphasis on the cultural element(s) and context(s) of marketing/advertising campaigns. Covers a representative sampling of Spanish-speaking countries, with special attention to Spain, Mexico, Argentina and the United States. Group work required for some class projects.
Prerequisite: SPN 2340 or SPN 3300, or instructor permission.

SPN 3451 Spanish Translation and Interpretation: Theory and Practice 3 Credits
Grading Scheme: Letter Grade
Provides an introduction to the theories and principles of translation and interpretation, combined with practice in English-to-Spanish and Spanish-to-English translations. Working individually and in groups, students will acquire translation techniques for a variety of genres, such as literary texts, letters, legal documents, newspapers, commercial advertisements, etc.
Prerequisite: SPN 3300 or SPN 3350 or the equivalent.

SPN 3472 Advanced Communicative Spanish Abroad 3 Credits
Grading Scheme: Letter Grade
Practical, in-class communication exercises in comprehension, speaking, reading and writing. Classroom activities are coordinated with homework to emphasize communication. The foreign setting also serves as a living language laboratory.
Prerequisite: SPN 2240 or SPN 2340, or placement scores on SAT II, IB, or AP tests, or equivalent coursework approved by the section coordinator or undergraduate advisor.

SPN 3510 Culture and Civilization of Spain 3 Credits
Grading Scheme: Letter Grade
A survey of Spanish history, customs and the arts from ancient times to the present; devotes considerable attention to life in contemporary Spain since the death of General Franco in 1975. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or equivalent coursework approved by the undergraduate coordinator.
Attributes: General Education - Humanities, General Education - International

SPN 3520 Culture and Civilization of Spanish America 3 Credits
Grading Scheme: Letter Grade
The rich and often conflicting diversity of the Americas as well as the historical experiences that allow us to speak of the Americas as a whole: The conquest, the colonial period, the struggles for independence against (neo)colonialism, the clashing and mixing of cultures, the yoke of slavery and servitude, the formation of rigid social hierarchies, and the frustrated search for democracy and economic development. These phenomena are followed in a variety of artistic media, from painting to poetry and from music to film. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or equivalent coursework approved by the undergraduate advisor.
Attributes: General Education - Humanities, General Education - International

SPN 3533 Spanish for Educators 3 Credits
Grading Scheme: Letter Grade
Designed for learners interested in teaching Spanish as a world language and/or increasing their linguistic and cultural expertise to work with educational stakeholders. Improve Spanish proficiency, learn methods for teaching Spanish, and gain awareness of Hispanic cultures as they relate to educational settings.
Prerequisite: SPN 3300 or SPN 3350.

SPN 3572 Revolving Topics Abroad 3-6 Credits
Grading Scheme: Letter Grade
Rotating topics focus on Spanish culture and civilization.

SPN 3700 Introduction to Hispanic Linguistics 3 Credits
Grading Scheme: Letter Grade
Initial overview of central theories and applications of linguistic analysis in the study of Spanish. The phonological, grammatical, discursive and social structures of Spanish are considered within five areas of popular inquiry in Hispanic linguistics: history of Spanish, language variation and change, Spanish in contact with other languages, political and educational linguistics, and acquisition of Spanish as a first and second language. Conducted entirely in Spanish and is a prerequisite for all 4000-level courses in Hispanic linguistics.
Prerequisite: SPN 3300 or SPN 3350.

SPN 3831 Spanish for the Legal Professions 3 Credits
Grading Scheme: Letter Grade
Prepares students for professional work in legal professions in a Spanish-speaking environment. Enables students to understand legal texts and arguments, write documents and express themselves using legal vocabulary. Covers a broad mix of practical legal terminology, vocabulary and conversational skills. Conducted entirely in Spanish.
Prerequisite: SPN 3300 or SPN 3350, or instructor permission.

SPN 3930 Topics in Spanish and Spanish American Culture and Civilization 3 Credits
Grading Scheme: Letter Grade
Variable topics in Latin American culture and civilization, including racial identity, feminism, regionalism, music, film, art, religion and sports.
Prerequisite: SPN 3300 or SPN 3350, or undergraduate advisor permission.

SPN 3948 Spanish in the Community 3 Credits
Grading Scheme: Letter Grade
Engages students in the local Spanish-speaking community through academic investigation and service work. Consists of classroom meetings, community projects outside of class, and reflective assignments; may be taken a maximum of one time on UF's campus and one time abroad.
Prerequisite: SPN 3300 OR SPN 3350.

SPN 4314 Advanced Spanish Composition and Structure for Heritage Learners 3 Credits
Grading Scheme: Letter Grade
Emphasizes aspects of Spanish style, syntax and registers that can be problematic for the heritage learner. Some prior formal training in the language is expected (SPN 3350 or equivalent in a Spanish-speaking country).
Prerequisite: SPN 3350 with minimum grade of B or placement test or department-administered test for heritage learners.

SPN 4420 Advanced Composition and Syntax 3 Credits
Grading Scheme: Letter Grade
Emphasizes the finer aspects of Spanish syntax, vocabulary and style that give the advanced student difficulties. Class discussion, drills and written compositions.
Prerequisite: SPN 3301 or the equivalent, and undergraduate coordinator permission. Not open to bilingual speakers of Spanish.

SPN 4713 Spanish Second Language Acquisition 3 Credits
Grading Scheme: Letter Grade
Overview of second language acquisition theory with discussion of empirical studies on the acquisition of Spanish. Emphasis on research design and the analysis of oral or written production of learners of Spanish.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010.

SPN 4780 Spanish Phonetics 3 Credits
Grading Scheme: Letter Grade
Focuses on the precise description of Spanish pronunciation with some attention to dialect features and contrastive English phonetics.
Prerequisite: (SPN 3300 or SPN 3350) and (SPN 3700 or LIN 3010).

SPN 4822 Sociolinguistics of the Spanish-Speaking World 3 Credits
Grading Scheme: Letter Grade
General overview of sociolinguistic issues of the contemporary Spanish-speaking world: language variation, language contact, discourse analysis, language attitudes, policy and planning, and social factors in language acquisition and use.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010.

SPN 4830 Introduction to Spanish and Spanish American Dialectology 3 Credits
Grading Scheme: Letter Grade
Principles and methods of dialectology applied to the study of regional varieties of Spanish in Spain and in Spanish America.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010.

SPN 4840 Introduction to the History of the Spanish Language 3 Credits
Grading Scheme: Letter Grade
The phonological, morphological, syntactic and semantic evolution of the Spanish language from Latin.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010 and SPN 4780.

SPN 4850 Introduction to the Structure of Spanish 3 Credits
Grading Scheme: Letter Grade
Explores syntactic, morphological and semantic aspects of the Spanish language.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010.

SPN 4851 Spanish Bilingualism 3 Credits
Grading Scheme: Letter Grade
Examines the internal and external factors that lead to and result from bilingualism in regions where Spanish is spoken. Organized into three primary components: social aspects; linguistic aspects; political and educational aspects.
Prerequisite: SPN 3700 or LIN 3010, or the equivalent.

SPN 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
For advanced majors and minors who seek independent work not offered in another course. Must be arranged individually with Spanish faculty. For honors thesis use SPN 4906.
Prerequisite: undergraduate coordinator permission.

SPN 4906 Honors Thesis 1-3 Credits
Grading Scheme: Letter Grade
Honors thesis preparation.

SPN 4911 Undergraduate Research in Spanish 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

SPN 4930 Revolving Topics in Linguistics and Culture 3 Credits
Grading Scheme: Letter Grade
Variable content provides opportunity for in-depth study of linguistic and cultural topics not offered in other courses and of topics of special current significance.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010.

SPN 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

SPT 3930 Topics in Latin American and Spanish Culture and Film 3 Credits
Grading Scheme: Letter Grade
Provides a broad survey of topics and issues pertaining to Latin American (including Brazilian) and Spanish contemporary culture through the analysis and interpretation of texts and films. Coursework is organized by country, theme, or genre on a rotating basis.
Prerequisite: any POW 3000 level course or any SPW 3000 level course or LIT 2000.

SPW 3030 Survey of Spanish-American Literature: From Discovery to Independence 3 Credits
Grading Scheme: Letter Grade
Overview of Spanish-American literature and its cultural context from the European conquest of the Americas to the 19th century. Introduces principal literary movements and authors, and trains students to read critically and to appreciate literary Spanish. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or the equivalent.
Attributes: General Education - Humanities, General Education - International

SPW 3031 Survey of Spanish-American Literature: From Independence to Contemporary Times 3 Credits
Grading Scheme: Letter Grade
End of the 19th century to the present. Introduces principal literary movements and authors, and trains students to read critically and to analyze literary Spanish. Reading of major authors who may include Borges, Garcia Marquez, Neruda, Fuentes and Ferre. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or the equivalent.
Attributes: General Education - Humanities, General Education - International

SPW 3100 Introduction to Spanish Literature 1 3 Credits
Grading Scheme: Letter Grade
Selected readings in epic, lyric, ballad and popular poetry, early forms of recreational and didactic prose and dramatic works from Spain's Medieval and Golden Ages are presented with attention to form and historical context. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or the equivalent.
Attributes: General Education - Humanities, General Education - International

SPW 3101 Introduction to Spanish Literature 2 3 Credits
Grading Scheme: Letter Grade
Provides an overview of Spanish literature and its cultural context from the 18th century to the present. Introduces principal literary movements and authors and trains students to read critically and to analyze literary Spanish. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or the equivalent.
Attributes: General Education - Humanities, General Education - International

SPW 4190 Seminar in Spanish-American Literature and Culture 3 Credits
Grading Scheme: Letter Grade
The advanced study of a writer, period, movement, region or topic of Spanish-American literature not ordinarily offered in the department. Refer to department website for specific description.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4213 Spanish Prose Fiction of the Golden Age 3 Credits
Grading Scheme: Letter Grade
Examines a literary landscape of rampant generic diversity before novelistic norms were solidified as known them today. Readings and lectures in Spanish.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4263 Readings in the Spanish Novel of the Nineteenth Century 3 Credits
Grading Scheme: Letter Grade
Readings in the Spanish novel of the 19th century. A survey of major authors from costumbrismo to the realism and naturalism of Galdos, Clarin and Pardo Bazan.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4270 Readings in Post-war Narrative 3 Credits
Grading Scheme: Letter Grade
Outstanding stories and novels of contemporary Spanish writers in relation to the historical and cultural context of post-civil war Spain.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4282 Readings in Contemporary Spanish-American Narrative 1 3 Credits
Grading Scheme: Letter Grade
The period of modernization of fiction and the development of new narrative modes in the 1940s and the 1950s; may include magical realism, the detective story and the new urban narratives.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4283 Readings in Contemporary Spanish-American Narrative 2 3 Credits
Grading Scheme: Letter Grade
The new narrative or the boom and post-boom of Latin-American fiction, 1960s to the present.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4310 Readings in Spanish Drama of the Golden Age 3 Credits
Grading Scheme: Letter Grade
Variable readings in Spanish Classical Theater by Lope de Vega, Pedro Calderon de la Barca, Tirso de Molina and others, including entremeses and Autos sacramentales. Focuses on the comedia's appeal to lettered and unlettered spectators and its potential for mass control and social protest.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4354 Readings in Contemporary Spanish-American Poetry 3 Credits
Grading Scheme: Letter Grade
A close reading and critical analysis of masterpieces by the major 20th-century poets of Spanish-America, including recent writers.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4364 Readings in the Spanish-American Essay 3 Credits
Grading Scheme: Letter Grade
Examination of major texts from the early 19th century to the present focusing on such themes as the search for identity and the definition of ethnic, racial, social and class categories.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4521 U.S. Hispanic Literature 3 Credits
Grading Scheme: Letter Grade
Reading, discussion and analysis of works by U.S. Hispanic or Latino/a writers with an examination of the cultural life and social conditions of the Puerto Rican, Cuban and Chicano communities in the U.S.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4532 Introduction to Spanish Romanticism 3 Credits
Grading Scheme: Letter Grade
By studying the canonical works of that moment (Rousseau, Feijoo, Cadalso, Jovellanos, Miranda, Bolivariable, Zorrilla, Rivas, Larra, Espronceda, Gomez de Avellaneda, Goya), the course explores the achievements, contradictions and failures of the enlightenment as well as the new organization by Romanticism in Spain and Latin America.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4604 Don Quixote 3 Credits
Grading Scheme: Letter Grade
A close reading of Cervantes' masterpiece that emphasizes the origins of the modern novel as a genre and its implication in the history of ideas.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4720 Readings in Spanish Literature from the Generation of 1898 to 1927 3 Credits
Grading Scheme: Letter Grade
A survey of turn-of-the-century Spanish crises from the perspective of the first generation of Spanish modernists. Authors include Unamuno, Costa, Machado, Valle-Inclin, Baroja and Ortega y Gassett.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4723 Readings in Spanish Literature from the Generation of 1927 to the Present 3 Credits
Grading Scheme: Letter Grade
Studies the development of Spanish literature in this century beginning with the brilliant poets of the generation of 1927, continuing with representative fiction, drama and poetry of the years after the Civil War and concluding with fiction and poetry of the 1990s.
Prerequisite: any one 3000-level SPW course or equivalent.

SPW 4780 Hispanic Women Writers 3 Credits
Grading Scheme: Letter Grade
A seminar dedicated to the exploration of literary works written in Spanish by women of Spain, Latin America and/or the United States.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4930 Revolving Topics in Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Variable content provides opportunity for in-depth study of literary and cultural topics not offered in other courses.
Prerequisite: any one 3000-level SPW course or the equivalent.

Spanish | Spanish and Portuguese Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

CAT 3180 Introduction to Catalan 1 3 Credits
Grading Scheme: Letter Grade
Acquire a working knowledge of the Catalan language and the aspects of Catalan culture and society. No previous experience with Catalan required, although knowledge of another Romance language (through intermediate level) is required.
Prerequisite: completion of second year in another Romance language or instructor permission.

CAT 3182 Introduction to Catalan 2 3 Credits
Grading Scheme: Letter Grade
To expand the linguistic and cultural knowledge acquired in CAT 3180 and to further develop an understanding of Catalan art, culture and society. Emphasis on speaking, listening, reading and writing.
Prerequisite: CAT 3180 or instructor permission.

CAT 3280 Intermediate Catalan 3 Credits
Grading Scheme: Letter Grade
Review and extend knowledge of grammar, vocabulary, culture; develop oral and written skills; begin reading literary works; and consolidate knowledge of Catalan culture.
Prerequisite: CAT 3182 or equivalent.

CAT 3281 Intermediate Catalan 2 3 Credits
Grading Scheme: Letter Grade
Second semester in the intermediate Catalan language and culture sequence, continuing the study of the language and culture of Catalonia with emphasis on linguistic proficiency and cultural knowledge.
Prerequisite: CAT 3180 or equivalent.

IDS 2334 Chemistry in the Cocina Latina 3 Credits
Grading Scheme: Letter Grade
Combines the science of chemistry with the humanistic aspects of the Spanish language and Hispanic cultures and histories, while exploring Hispanic cultures and language through the foods and recipes that define them, and the science of those foods by studying chemical reactions inherent in cooking.

LIT 2000 Introduction to Literature 3 Credits
Grading Scheme: Letter Grade
Examines the important role literature has played in individuals' lives and in society, presenting a range of literary styles and genres, from different countries and historical periods. Special attention paid to development of critical skills of analysis and interpretation. (H)
Prerequisite: ENC 1101
Attributes: General Education - Humanities

SPN 1130 Beginning Spanish 1 5 Credits
Grading Scheme: Letter Grade
First in the basic Spanish language sequence, developing basic communication skills in reading, writing, speaking and listening.

SPN 1131 Beginning Spanish 2 5 Credits
Grading Scheme: Letter Grade
Second in the basic Spanish language sequence, continuing development of basic communication skills in reading, writing, speaking and listening.

SPN 1134 Accelerated Spanish Review 5 Credits
Grading Scheme: Letter Grade
Provides a rapid review of basic communicative Spanish as preparation for intermediate Spanish courses. For those with previous Spanish study but insufficient placement scores to move to the 2000 level.

SPN 1180 Elementary Spanish: Review and Progress 3 Credits
Grading Scheme: Letter Grade
Alternative to SPN 1130, for students who have previous experience in Spanish. Covers the material of SPN 1130 and meets three times weekly. SPN 1131 follows this course.
Prerequisite: refer to placement section. Not open to bilingual speakers of Spanish.

SPN 2200 Intermediate Spanish 1 3 Credits
Grading Scheme: Letter Grade
First of the intermediate Spanish language sequence. Develops intermediate skills in reading, writing, speaking and listening. Builds communicative competence and enhances social and cultural awareness of the Spanish-speaking world. Taught entirely in Spanish.

SPN 2201 Intermediate Spanish 2 3 Credits
Grading Scheme: Letter Grade
Second course in the intermediate Spanish language sequence. Continues development of intermediate skills in reading, writing, speaking and listening. Continues to enhance communicative competence and social and cultural awareness. Taught entirely in Spanish.
Prerequisite: SPN 2200 with a minimum grade of C or the equivalent placement scores on SAT II, IB or AP tests or the equivalent placement score or the equivalent coursework as approved by the undergraduate coordinator. Not open to bilingual speakers of Spanish.

SPN 2240 Intensive Communication Skills 3 Credits
Grading Scheme: Letter Grade
Develops the ability to understand oral and written Spanish and is required of all majors and minors who are not bilinguals, unless they initially placed above this level. Preparation for 3000-level courses.
Prerequisite: SPN 2201 with a minimum grade of C or the equivalent placement scores on SAT II, IB or AP tests or the equivalent placement score or the equivalent coursework as approved by the undergraduate coordinator. Not open to bilingual speakers of Spanish.

SPN 2270 Intermediate Spanish Abroad 3 Credits
Grading Scheme: Letter Grade
Equivalent to SPN 2240, the obligatory first course in the Spanish major and minor for non-bilinguals. Preparation for upper-division Spanish courses. Promotes cultural awareness and develops an active command of the language by means of intensive interaction with the people and current issues and events of the Spanish-speaking host city and surrounding area.
Prerequisite: SPN 2201 or the equivalent placement scores on SAT II, IB or AP tests, and undergraduate coordinator permission.

SPN 2271 Accelerated Intermediate Spanish Abroad 3 Credits
Grading Scheme: Letter Grade
Students acquire intermediate communicative skills in Spanish through interaction in Spanish-speaking communities. Offered abroad only, course depends on intensive language immersion for successful acquisition in a shortened period of time. Successful completion is comparable to having passed SPN 2200 and SPN 2201.
Prerequisite: SPN 1131 or SPN 1134 with a minimum grade of C or the equivalent placement scores on SAT II, IB or AP tests.

SPN 2340 Introduction to Reading and Writing Spanish for Heritage Learners 3 Credits
Grading Scheme: Letter Grade
Intermediate-level course for heritage learners with some speaking and listening ability from exposure outside the classroom but with little or no formal exposure to the language. Emphasizes reading and vocabulary, introduces grammar and orthographic rules.
Prerequisite: placement test or department-administered test for Heritage Learners.

SPN 2442 Intensive Intermediate Spanish for Business 3 Credits
Grading Scheme: Letter Grade
An intensive intermediate-level course for students interested in learning Spanish in the context of the business world. Includes business vocabulary and business practices in the Hispanic world.
Prerequisite: SPN 1131 or the equivalent.

SPN 2471 Accelerated Spanish Abroad 1-5 Credits
Grading Scheme: Letter Grade
Reviews major aspects of grammar in a context that enhances understanding of the Spanish or Spanish-American way of life and modes of expression. Reading comprehension and composition are developed through readings on diverse topics related to Latin America and Spain.
Prerequisite: SPN 2200 or the equivalent placement scores on SAT II, IB, or AP tests, and section coordinator or undergraduate advisor permission.

SPN 3036 Spanish for Health Professions 3 Credits
Grading Scheme: Letter Grade
Provides students with the linguistic and cultural skills necessary for effectively treating Spanish-speaking patients with medical emergencies, illnesses and other health issues.
Prerequisite: SPN 3300 or SPN 3350 with minimum grade of C, or equivalent linguistic knowledge as determined by instructor.

SPN 3224 Applied Spanish 1-5 Credits
Grading Scheme: Letter Grade
Spanish-language section designed to accompany and complement courses offered in other departments. Readings and discussions are in Spanish to develop vocabulary and fluency related to the content of the companion course and to provide an international perspective on the issues of the main course. (N)
Prerequisite: SPN 3300 or SPN 3350, or undergraduate coordinator permission.
Attributes: General Education - International

SPN 3300 Spanish Grammar and Composition 1 3 Credits
Grading Scheme: Letter Grade
Intensive language course to develop mastery of grammatical principles, increase vocabulary and enhance writing and composition skills. This course (or SPN 3350 for bilingual speakers) is a prerequisite for most 3000/4000-level Spanish courses.
Prerequisite: SPN 2240; can be taken concurrently with SPN 2240 or SPN 3301. Not open to bilingual speakers of Spanish.

SPN 3301 Spanish Grammar and Composition 2 3 Credits
Grading Scheme: Letter Grade
Continues review of Spanish grammar begun in SPN 3300 and concentrates on intensive writing practice in expository Spanish. Highly recommended for Spanish majors and minors who are not taking the bilingual sequence; a prerequisite for SPN 4420, Advanced Composition and Syntax.
Prerequisite: SPN 3300; can be taken concurrently with SPN 3300. Not open to bilingual speakers of Spanish.

SPN 3350 Spanish Grammar and Composition for Heritage Learners 3 Credits
Grading Scheme: Letter Grade
Emphasizes aspects of the language and grammar for those who have learned Spanish through exposure outside the classroom in addition to some formal exposure in school settings, and whose speaking and comprehension abilities are generally more developed than their writing and reading skills.
Prerequisite: placement test or department-administered test for heritage learners or heritage program coordinator permission or SPN 2340 with minimum grade of B.

SPN 3392 Spanish Conversation, Film and Culture 3 Credits
Grading Scheme: Letter Grade
Enhances students' oral skills in Spanish through movie reviews, oral reports, debates and class discussions. Introduces students to current social, economic and political issues in Latin-America and Spain through the critical analysis of contemporary Spanish-language films.
Prerequisite: SPN 2240 or placement test. Not open to bilingual speakers of Spanish.

SPN 3414 Advanced Spanish Conversation 2 3 Credits
Grading Scheme: Letter Grade
Authentic materials of the Hispanic world are used to improve listening, comprehension and speaking skills. Oral expression is used in conversation and in formal and informal presentations on a variety of topics.
Prerequisite: SPN 2240 or instructor permission. Not open to bilingual speakers of Spanish.

SPN 3440 Commercial Spanish 3 Credits
Grading Scheme: Letter Grade
An introduction to the vocabulary and business practices of the Hispanic world. Emphasis on oral and written business communications. Overview of cultural differences within the Hispanic world and between the U.S. and the Hispanic world, with emphasis on the business impact. (S and N)
Prerequisite: SPN 3300 or SPN 3350, or the equivalent as approved by the undergraduate coordinator.
Attributes: General Education - International, General Education - Social Science

SPN 3443 Marketing and Advertising in the Spanish-Speaking World 3 Credits
Grading Scheme: Letter Grade
An introduction to the related fields of marketing and advertising as they pertain to the Spanish-speaking world. Focuses on marketing campaigns and advertising strategies, in print and on television. Emphasis on the cultural element(s) and context(s) of marketing/advertising campaigns. Covers a representative sampling of Spanish-speaking countries, with special attention to Spain, Mexico, Argentina and the United States. Group work required for some class projects.
Prerequisite: SPN 2340 or SPN 3300, or instructor permission.

SPN 3451 Spanish Translation and Interpretation: Theory and Practice 3 Credits
Grading Scheme: Letter Grade
Provides an introduction to the theories and principles of translation and interpretation, combined with practice in English-to-Spanish and Spanish-to-English translations. Working individually and in groups, students will acquire translation techniques for a variety of genres, such as literary texts, letters, legal documents, newspapers, commercial advertisements, etc.
Prerequisite: SPN 3300 or SPN 3350 or the equivalent.

SPN 3472 Advanced Communicative Spanish Abroad 3 Credits
Grading Scheme: Letter Grade
Practical, in-class communication exercises in comprehension, speaking, reading and writing. Classroom activities are coordinated with homework to emphasize communication. The foreign setting also serves as a living language laboratory.
Prerequisite: SPN 2240 or SPN 2340, or placement scores on SAT II, IB, or AP tests, or equivalent coursework approved by the section coordinator or undergraduate advisor.

SPN 3510 Culture and Civilization of Spain 3 Credits
Grading Scheme: Letter Grade
A survey of Spanish history, customs and the arts from ancient times to the present; devotes considerable attention to life in contemporary Spain since the death of General Franco in 1975. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or equivalent coursework approved by the undergraduate coordinator.
Attributes: General Education - Humanities, General Education - International

SPN 3520 Culture and Civilization of Spanish America 3 Credits
Grading Scheme: Letter Grade
The rich and often conflicting diversity of the Americas as well as the historical experiences that allow us to speak of the Americas as a whole: The conquest, the colonial period, the struggles for independence against (neo)colonialism, the clashing and mixing of cultures, the yoke of slavery and servitude, the formation of rigid social hierarchies, and the frustrated search for democracy and economic development. These phenomena are followed in a variety of artistic media, from painting to poetry and from music to film. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or equivalent coursework approved by the undergraduate advisor.
Attributes: General Education - Humanities, General Education - International

SPN 3533 Spanish for Educators 3 Credits
Grading Scheme: Letter Grade
Designed for learners interested in teaching Spanish as a world language and/or increasing their linguistic and cultural expertise to work with educational stakeholders. Improve Spanish proficiency, learn methods for teaching Spanish, and gain awareness of Hispanic cultures as they relate to educational settings.
Prerequisite: SPN 3300 or SPN 3350.

SPN 3572 Revolving Topics Abroad 3-6 Credits
Grading Scheme: Letter Grade
Rotating topics focus on Spanish culture and civilization.

SPN 3700 Introduction to Hispanic Linguistics 3 Credits
Grading Scheme: Letter Grade
Initial overview of central theories and applications of linguistic analysis in the study of Spanish. The phonological, grammatical, discursive and social structures of Spanish are considered within five areas of popular inquiry in Hispanic linguistics: history of Spanish, language variation and change, Spanish in contact with other languages, political and educational linguistics, and acquisition of Spanish as a first and second language. Conducted entirely in Spanish and is a prerequisite for all 4000-level courses in Hispanic linguistics.
Prerequisite: SPN 3300 or SPN 3350.

SPN 3831 Spanish for the Legal Professions 3 Credits
Grading Scheme: Letter Grade
Prepares students for professional work in legal professions in a Spanish-speaking environment. Enables students to understand legal texts and arguments, write documents and express themselves using legal vocabulary. Covers a broad mix of practical legal terminology, vocabulary and conversational skills. Conducted entirely in Spanish.
Prerequisite: SPN 3300 or SPN 3350, or instructor permission.

SPN 3930 Topics in Spanish and Spanish American Culture and Civilization 3 Credits
Grading Scheme: Letter Grade
Variable topics in Latin American culture and civilization, including racial identity, feminism, regionalism, music, film, art, religion and sports.
Prerequisite: SPN 3300 or SPN 3350, or undergraduate advisor permission.

SPN 3948 Spanish in the Community 3 Credits
Grading Scheme: Letter Grade
Engages students in the local Spanish-speaking community through academic investigation and service work. Consists of classroom meetings, community projects outside of class, and reflective assignments; may be taken a maximum of one time on UF's campus and one time abroad.
Prerequisite: SPN 3300 OR SPN 3350.

SPN 4314 Advanced Spanish Composition and Structure for Heritage Learners 3 Credits
Grading Scheme: Letter Grade
Emphasizes aspects of Spanish style, syntax and registers that can be problematic for the heritage learner. Some prior formal training in the language is expected (SPN 3350 or equivalent in a Spanish-speaking country).
Prerequisite: SPN 3350 with minimum grade of B or placement test or department-administered test for heritage learners.

SPN 4420 Advanced Composition and Syntax 3 Credits
Grading Scheme: Letter Grade
Emphasizes the finer aspects of Spanish syntax, vocabulary and style that give the advanced student difficulties. Class discussion, drills and written compositions.
Prerequisite: SPN 3301 or the equivalent, and undergraduate coordinator permission. Not open to bilingual speakers of Spanish.

SPN 4713 Spanish Second Language Acquisition 3 Credits
Grading Scheme: Letter Grade
Overview of second language acquisition theory with discussion of empirical studies on the acquisition of Spanish. Emphasis on research design and the analysis of oral or written production of learners of Spanish.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010.

SPN 4780 Spanish Phonetics 3 Credits
Grading Scheme: Letter Grade
Focuses on the precise description of Spanish pronunciation with some attention to dialect features and contrastive English phonetics.
Prerequisite: (SPN 3300 or SPN 3350) and (SPN 3700 or LIN 3010).

SPN 4822 Sociolinguistics of the Spanish-Speaking World 3 Credits
Grading Scheme: Letter Grade
General overview of sociolinguistic issues of the contemporary Spanish-speaking world: language variation, language contact, discourse analysis, language attitudes, policy and planning, and social factors in language acquisition and use.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010.

SPN 4830 Introduction to Spanish and Spanish American Dialectology 3 Credits
Grading Scheme: Letter Grade
Principles and methods of dialectology applied to the study of regional varieties of Spanish in Spain and in Spanish America.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010.

SPN 4840 Introduction to the History of the Spanish Language 3 Credits
Grading Scheme: Letter Grade
The phonological, morphological, syntactic and semantic evolution of the Spanish language from Latin.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010 and SPN 4780.

SPN 4850 Introduction to the Structure of Spanish 3 Credits
Grading Scheme: Letter Grade
Explores syntactic, morphological and semantic aspects of the Spanish language.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010.

SPN 4851 Spanish Bilingualism 3 Credits
Grading Scheme: Letter Grade
Examines the internal and external factors that lead to and result from bilingualism in regions where Spanish is spoken. Organized into three primary components: social aspects; linguistic aspects; political and educational aspects.
Prerequisite: SPN 3700 or LIN 3010, or the equivalent.

SPN 4905 Individual Work 1-4 Credits
Grading Scheme: Letter Grade
For advanced majors and minors who seek independent work not offered in another course. Must be arranged individually with Spanish faculty. For honors thesis use SPN 4906.
Prerequisite: undergraduate coordinator permission.

SPN 4906 Honors Thesis 1-3 Credits
Grading Scheme: Letter Grade
Honors thesis preparation.

SPN 4911 Undergraduate Research in Spanish 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

SPN 4930 Revolving Topics in Linguistics and Culture 3 Credits
Grading Scheme: Letter Grade
Variable content provides opportunity for in-depth study of linguistic and cultural topics not offered in other courses and of topics of special current significance.
Prerequisite: SPN 3300 or SPN 3350, and SPN 3700 or LIN 3010.

SPN 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: undergraduate advisor permission.

SPT 3930 Topics in Latin American and Spanish Culture and Film 3 Credits
Grading Scheme: Letter Grade
Provides a broad survey of topics and issues pertaining to Latin American (including Brazilian) and Spanish contemporary culture through the analysis and interpretation of texts and films. Coursework is organized by country, theme, or genre on a rotating basis.
Prerequisite: any POW 3000 level course or any SPW 3000 level course or LIT 2000.

SPW 3030 Survey of Spanish-American Literature: From Discovery to Independence 3 Credits
Grading Scheme: Letter Grade
Overview of Spanish-American literature and its cultural context from the European conquest of the Americas to the 19th century. Introduces principal literary movements and authors, and trains students to read critically and to appreciate literary Spanish. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or the equivalent.
Attributes: General Education - Humanities, General Education - International

SPW 3031 Survey of Spanish-American Literature: From Independence to Contemporary Times 3 Credits
Grading Scheme: Letter Grade
End of the 19th century to the present. Introduces principal literary movements and authors, and trains students to read critically and to analyze literary Spanish. Reading of major authors who may include Borges, Garcia Marquez, Neruda, Fuentes and Ferre. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or the equivalent.
Attributes: General Education - Humanities, General Education - International

SPW 3100 Introduction to Spanish Literature 1 3 Credits
Grading Scheme: Letter Grade
Selected readings in epic, lyric, ballad and popular poetry, early forms of recreational and didactic prose and dramatic works from Spain's Medieval and Golden Ages are presented with attention to form and historical context. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or the equivalent.
Attributes: General Education - Humanities, General Education - International

SPW 3101 Introduction to Spanish Literature 2 3 Credits
Grading Scheme: Letter Grade
Provides an overview of Spanish literature and its cultural context from the 18th century to the present. Introduces principal literary movements and authors and trains students to read critically and to analyze literary Spanish. (H and N)
Prerequisite: SPN 3300 or SPN 3350, or the equivalent.
Attributes: General Education - Humanities, General Education - International

SPW 4190 Seminar in Spanish-American Literature and Culture 3 Credits
Grading Scheme: Letter Grade
The advanced study of a writer, period, movement, region or topic of Spanish-American literature not ordinarily offered in the department. Refer to department website for specific description.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4213 Spanish Prose Fiction of the Golden Age 3 Credits
Grading Scheme: Letter Grade
Examines a literary landscape of rampant generic diversity before novelistic norms were solidified as known them today. Readings and lectures in Spanish.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4263 Readings in the Spanish Novel of the Nineteenth Century 3 Credits
Grading Scheme: Letter Grade
Readings in the Spanish novel of the 19th century. A survey of major authors from costumbrismo to the realism and naturalism of Galdos, Clarin and Pardo Bazan.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4270 Readings in Post-war Narrative 3 Credits
Grading Scheme: Letter Grade
Outstanding stories and novels of contemporary Spanish writers in relation to the historical and cultural context of post-civil war Spain.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4282 Readings in Contemporary Spanish-American Narrative 1 3 Credits
Grading Scheme: Letter Grade
The period of modernization of fiction and the development of new narrative modes in the 1940s and the 1950s; may include magical realism, the detective story and the new urban narratives.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4283 Readings in Contemporary Spanish-American Narrative 2 3 Credits
Grading Scheme: Letter Grade
The new narrative or the boom and post-boom of Latin-American fiction, 1960s to the present.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4310 Readings in Spanish Drama of the Golden Age 3 Credits
Grading Scheme: Letter Grade
Variable readings in Spanish Classical Theater by Lope de Vega, Pedro Calderon de la Barca, Tirso de Molina and others, including entremeses and Autos sacramentales. Focuses on the comedia's appeal to lettered and unlettered spectators and its potential for mass control and social protest.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4354 Readings in Contemporary Spanish-American Poetry 3 Credits
Grading Scheme: Letter Grade
A close reading and critical analysis of masterpieces by the major 20th-century poets of Spanish-America, including recent writers.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4364 Readings in the Spanish-American Essay 3 Credits
Grading Scheme: Letter Grade
Examination of major texts from the early 19th century to the present focusing on such themes as the search for identity and the definition of ethnic, racial, social and class categories.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4521 U.S. Hispanic Literature 3 Credits
Grading Scheme: Letter Grade
Reading, discussion and analysis of works by U.S. Hispanic or Latino/a writers with an examination of the cultural life and social conditions of the Puerto Rican, Cuban and Chicano communities in the U.S.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4532 Introduction to Spanish Romanticism 3 Credits
Grading Scheme: Letter Grade
By studying the canonical works of that moment (Rousseau, Feijoo, Cadalso, Jovellanos, Miranda, Bolivariable, Zorrilla, Rivas, Larra, Espronceda, Gomez de Avellaneda, Goya), the course explores the achievements, contradictions and failures of the enlightenment as well as the new organization by Romanticism in Spain and Latin America.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4604 Don Quixote 3 Credits
Grading Scheme: Letter Grade
A close reading of Cervantes' masterpiece that emphasizes the origins of the modern novel as a genre and its implication in the history of ideas.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4720 Readings in Spanish Literature from the Generation of 1898 to 1927 3 Credits
Grading Scheme: Letter Grade
A survey of turn-of-the-century Spanish crises from the perspective of the first generation of Spanish modernists. Authors include Unamuno, Costa, Machado, Valle-Inclin, Baroja and Ortega y Gassett.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4723 Readings in Spanish Literature from the Generation of 1927 to the Present 3 Credits
Grading Scheme: Letter Grade
Studies the development of Spanish literature in this century beginning with the brilliant poets of the generation of 1927, continuing with representative fiction, drama and poetry of the years after the Civil War and concluding with fiction and poetry of the 1990s.
Prerequisite: any one 3000-level SPW course or equivalent.

SPW 4780 Hispanic Women Writers 3 Credits
Grading Scheme: Letter Grade
A seminar dedicated to the exploration of literary works written in Spanish by women of Spain, Latin America and/or the United States.
Prerequisite: any one 3000-level SPW course or the equivalent.

SPW 4930 Revolving Topics in Literature and Culture 3 Credits
Grading Scheme: Letter Grade
Variable content provides opportunity for in-depth study of literary and cultural topics not offered in other courses.
Prerequisite: any one 3000-level SPW course or the equivalent.

Speech, Language and Hearing Sciences

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

ASL 1110 American Sign Language 1 4 Credits
Grading Scheme: Letter Grade
First in a series on American Sign Language concepts and principles; introduces receptive and expressive skills in formal and informal interactions. Signs, fingerspelling, numbers, and classifiers are practiced in conversational and storytelling contexts. Also introduces ASL literature and cultural information.

ASL 1120 American Sign Language 2 4 Credits
Grading Scheme: Letter Grade
Second in a series on American Sign Language concepts and principles; develops receptive and expressive skills in formal and informal interactions. Signs, fingerspelling, numbers, classifiers, and indexing are practiced in conversational and storytelling contexts. Familiarization with ASL culture and literary genres continues.

ASL 1130 American Sign Language 3 3 Credits
Grading Scheme: Letter Grade
Advanced study of American Sign Language.

ASL 2510 Deaf Culture 1 Credit
Grading Scheme: Letter Grade
The pathological and cultural aspects of deaf people in language acquisition, education and compliance with accommodation issues.

COM 4930 Special Topics in Communication 3 Credits
Grading Scheme: Letter Grade
Seminar study of theory and research in a specific area of communication.
Prerequisite: COM 1000 or equivalent.

IDH 2931 Honors Seminar 3 Credits
Grading Scheme: Letter Grade
Special topics restricted to those in the university-wide Honors Program. (WR)
Attributes: Satisfies 6000 Words of Writing Requirement

LIN 3201 The Sounds of Human Language 3 Credits
Grading Scheme: Letter Grade
Emphasizes the sounds employed in languages of the world for a comprehensive understanding of the mechanism underlying the production of speech sounds and the ability to recognize, distinguish and phonetically transcribe speech sounds from an unfamiliar language. Includes investigation of the patterning and functions of sounds in languages of the world and application of the methods of analyzing a language sound system.
Prerequisite: LIN 3010.

LIN 4905 Individual Study in Linguistics 3 Credits
Grading Scheme: Letter Grade
Individual study for linguistics majors.

SPA 2109 Language Breakdown in the Brain 3 Credits
Grading Scheme: Letter Grade
Introduces brain structures as they relate to language development and use. Also emphasizes the effects of damage or developmental anomalies in different brain areas. (B)
Attributes: General Education - Biological Science

SPA 3003 Phonetic Theory and Transcription 3 Credits
Grading Scheme: Letter Grade
Introduces human speech production, classification, and transcription. Also provides intensive training in the use of the International Phonetics Alphabet for transcribing American English.
Prerequisite: COM 1000 or equivalent.

SPA 3011 Speech Acoustics 3 Credits
Grading Scheme: Letter Grade
Introduces scientific methodologies, physics of sound, acoustics and elementary instrumentation related to human speech communication.
Prerequisite: communication sciences and disorders or health science major.

SPA 3032 Fundamentals of Hearing 3 Credits
Grading Scheme: Letter Grade
Concepts and principles relevant to the normal hearing processes: acoustics, gross anatomy, psychophysical methods and basic subjective correlates of the auditory system.

SPA 3101 Speech Anatomy and Physiology 3 Credits
Grading Scheme: Letter Grade
Introduces elementary anatomy, physiology and neurophysiology of the speaking mechanism.
Prerequisite: communication sciences and disorders or health science major.

SPA 3475 Deaf Culture in America 3 Credits
Grading Scheme: Letter Grade
Provides an overview of the lives and experiences of deaf and hard of hearing persons and examines the reasons why many deaf people consider themselves to belong to a unique cultural group. Discussions focus on deaf communities and cultures, signed languages, education, accessibility, literature, and other issues.
Prerequisite: (PSY 2012 and ASL 1110) or instructor permission.

SPA 3800 Critical Review of Scientific Evidence 3 Credits
Grading Scheme: Letter Grade
Provides scientific process concepts (inductive and deductive reasoning, foundations of inductive statistics, research design) as well as offering practice in critical thinking and avoiding the cognitive illusions that lead to invalid conclusions. The goal is to become critical consumers of information.
Prerequisite: STA 2023 or more advanced statistics course

SPA 4004 Language Development 3 Credits
Grading Scheme: Letter Grade
Study of language-based disorders of communication: language impairment in children, traumatic brain injury, aphasia and dementia.
Prerequisite: communication sciences and disorders or health science major.

SPA 4050 Clinical Observations in Speech-Language Pathology and Audiology 3 Credits
Grading Scheme: Letter Grade
Supervised clinical observations of diagnostics and remediation at the UF Speech and Hearing Clinic.
Prerequisite: senior standing.

SPA 4104 Neural Basis of Communication 3 Credits
Grading Scheme: Letter Grade
Understanding the structures and functions of the human nervous system and the neurological processes involved in communication and communication disorders.

SPA 4106 Neuroplasticity and Rehabilitation 3 Credits
Grading Scheme: Letter Grade
Introduces Foundational Knowledge About Neuroplasticity and How It Impacts Treatment Design and Implementation Across All Health Sciences. Also Introduces Different Types of Rehabilitation Approaches Offered By the Various Health Sciences.
Prerequisite: enrolled in a limited access BHS major or instructor permission.

SPA 4250 Introduction to Speech Disorders 3 Credits
Grading Scheme: Letter Grade
Studies speech-based disorders of communication: phonology, motor speech, resonation, voice and stuttering.
Prerequisite: LIN 3010 or SPA 3003 and SPA 3101.

SPA 4302 Audiometry and Hearing Disorders 3 Credits
Grading Scheme: Letter Grade
Basic techniques in pure-tone and speech audiometry, measurements of middle-ear function and test interpretation. Supervised clinical/laboratory experience in hearing testing.
Prerequisite: SPA 3032.

SPA 4321 Audiologic Rehabilitation 3 Credits
Grading Scheme: Letter Grade
Overview of aural rehabilitation and methods in auditory training and speech reading with hearing-impaired individuals.
Prerequisite: SPA 4302 or instructor permission.

SPA 4400 Introduction to Language Disorders 3 Credits
Grading Scheme: Letter Grade
Studies language-based disorders of communication: specific language impairment in children, traumatic brain injury, aphasia and dementia.
Prerequisite: SPA 4004 and SPA 4104.

SPA 4904 Individual Study 1-3 Credits
Grading Scheme: Letter Grade
A project, reading or research course.

SPA 4931 Honors in Communication Sciences and Disorders 1-3 Credits
Grading Scheme: Letter Grade
The design, implementation and reporting of an original research project.
Prerequisite: 3.5 overall GPA, a 3.75 GPA in the major and completion (including current enrollment) of 21 credits in the major.

SPC 3605 Speechwriting 3 Credits
Grading Scheme: Letter Grade
Consideration of and practice with word choice and word arrangement as sources of style that influence memorability, credibility, and ease and accuracy of comprehension.

SPC 4680 Rhetorical Criticism 3 Credits
Grading Scheme: Letter Grade
Critical analyses of rhetorical elements and processes in oratorical and non-oratorical forms.

Sport and Fitness Program

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

HLP 4933 Variable International Topics 1-6 Credits
Grading Scheme: Letter Grade
Provides the opportunity to study in a wide range of cultural settings.

PEN 1136 Openwater Scuba Diving 2 Credits
Grading Scheme: Letter Grade
Beginning scuba diving including compass navigation, openwater diving environment, dive preparation and five openwater dives. Payment of required additional course fees and successful completion results in national certification as Openwater Scuba Diver.
Prerequisite: swim test.

Statistics

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

STA 2023 Introduction to Statistics 1 3 Credits
Grading Scheme: Letter Grade
Graphical and numerical descriptive measures. Simple linear regression. Basic probability concepts, random variables, sampling distributions, central limit theorem. Large and small sample confidence intervals and significance tests for parameters associated with a single population and for comparison of two populations. Use of statistical computer software and computer applets to analyze data and explore new concepts. (M)
Attributes: General Education - Mathematics

STA 3024 Introduction to Statistics 2 3 Credits
Grading Scheme: Letter Grade
An introduction to the analysis of variance. Nonparametric statistical methods and applications. Analysis of count data: chi-square and contingency tables. Simple and multiple linear regression methods with applications.
Prerequisite: STA 2023 or the equivalent.

STA 3032 Engineering Statistics 3 Credits
Grading Scheme: Letter Grade
The basic concepts in probability and statistics with engineering applications. Topics include probability, discrete and continuous random variables, estimation, hypothesis testing, and linear and multiple regression. (M)
Prerequisite: MAC 2311.
Attributes: General Education - Mathematics

STA 4183 Theory of Interest 3 Credits
Grading Scheme: Letter Grade
Measurement of simple and compound interest, accumulated and present value. Annuities, yield rates, amortization schedules, sinking funds, bonds, securities and related funds.
Prerequisite: MAC 2312.

STA 4210 Regression Analysis 3 Credits
Grading Scheme: Letter Grade
Simple linear regression and multiple linear regression models. Inference about model parameters and predictions, diagnostic and remedial measures about the model, independent variable selection, multicolinearity, autocorrelation and nonlinear regression. SAS implementation of the above topics.
Prerequisite: STA 3024 or STA 3032 or (STA 4321 and STA 2023) or (MAS 3114 and STA 2023) or (MAS 4105 and STA 2023).

STA 4211 Design of Experiments 3 Credits
Grading Scheme: Letter Grade
The basic principles of experimental design: analysis of variance for experiments with a single factor; randomized blocks and Latin square designs: multiple comparison of treatment means; factorial and nested designs; analysis of covariance; response surface methodology.
Prerequisite: STA 4210.

STA 4222 Sample Survey Design 3 Credits
Grading Scheme: Letter Grade
An introduction to the design of sample surveys and the analysis of survey data, the course emphasizes practical applications of survey methodology. Topics include sources of errors in surveys, questionnaire construction, simple random, stratified, systematic and cluster sampling, ratio and regression estimation, and a selection of special topics such as applications to quality control and environmental science.
Prerequisite: STA 4321 and either STA 2023 or STA 3032 or STA 4322.

STA 4321 Introduction to Probability 3 Credits
Grading Scheme: Letter Grade
Introduction to the theory of probability, counting rules, conditional probability, independence, additive and multiplicative laws, Bayes Rule. Discrete and continuous random variables, their distributions, moments and moment generating functions. Multivariate probability distributions, independence, covariance. Distributions of functions of random variables, sampling distributions, central limit theorem.
Prerequisite: MAC 2313 with a minimum grade of C.

STA 4322 Introduction to Statistics Theory 3 Credits
Grading Scheme: Letter Grade
Sampling distributions, central limit theorem, estimation, properties of point estimators, confidence intervals, hypothesis testing, common large sample tests, normal theory small sample tests, uniformly most powerful and likelihood ratio tests, linear models and least squares, correlation. Introduction to analysis of variance.
Prerequisite: STA 4321 or the equivalent.

STA 4502 Nonparametric Statistical Methods 3 Credits
Grading Scheme: Letter Grade
Introduction to nonparametric statistics, including one- and two-sample testing and estimation methods, one- and two-way layout models and correlation and regression models.
Prerequisite: STA 2023 or STA 3032 or STA 4210 or STA 4322.

STA 4504 Categorical Data Analysis 3 Credits
Grading Scheme: Letter Grade
Description and inference using proportions and odds ratios, multi-way contingency tables, logistic regression and other generalized linear models, log-linear models applications.
Prerequisite: STA 3024 or STA 3032 or STA 4210 or STA 4322.

STA 4702 Multivariate Statistical Methods 3 Credits
Grading Scheme: Letter Grade
Review of matrix theory, univariate normal, t, chi-squared and F distributions and multivariate normal distribution. Inference about multivariate means including Hotelling's T2, multivariate analysis of variance, multivariate regression and multivariate repeated measures. Inference about covariance structure including principal components, factor analysis and canonical correlation. Multivariate classification techniques including discriminant and cluster analyses. Additional topics at the discretion of the instructor, time permitting.
Prerequisite: (STA 3024 or STA 4210 or STA 4322 or STA 6127 or STA 6167) and either MAS 3114 or MAS 4105 or the equivalent.

STA 4712 Introduction to Survival Analysis 3 Credits
Grading Scheme: Letter Grade
Survival analysis data methods including Kaplan-Meier and Nelson estimators of the survival, accelerated failure time and proportional hazards models and frailty and recurrent event models.
Prerequisite: STA 4210.

STA 4821 Stochastic Processes 3 Credits
Grading Scheme: Letter Grade
Theoretical development of elementary stochastic processes, including Poisson processes and their generalizations, Markov chains, birth and death processes, branching processes, renewal processes, queuing processes and genetic and ecological processes.
Prerequisite: STA 4321 or equivalent.

STA 4853 Introduction to Time Series and Forecasting 3 Credits
Grading Scheme: Letter Grade
Stationarity, autocorrelation, ARMA models; frequency domain methods and the spectral density; forecasting methods; and computationally-oriented application to case studies.
Prerequisite: STA 4210 and STA 4321.

STA 4905 Individual Work 1-5 Credits
Grading Scheme: Letter Grade
Special topics designed to meet the needs and interests of individual students.
Prerequisite: department permission.

STA 4911 Undergraduate Research in Statistics 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

STA 4930 Special Topics 3 Credits
Grading Scheme: Letter Grade
Variable topics designed to meet the students' needs and interests.
Prerequisite: department permission.

STA 4940 Internship 1-3 Credits
Grading Scheme: S/U
Supervised activity associated with planning and/or analyzing data from a research project. Supervision by a faculty member or delegated authority and a post-internship written report are required. (S-U)
Prerequisite: STA 4211 and undergraduate coordinator permission.

Sustainability and the Built Environment

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

DCP 3200 Methods of Inquiry for Sustainability and the Built Environment 3 Credits
Grading Scheme: Letter Grade
The breadth of methods of inquiry (the process of asking and then answering questions) commonly used by planners, designers and builders as well as those who study the built and managed environments.
Prerequisite: BCN 1582 or IDS 2154, or a course approved in the topic area.

DCP 3210 Sustainable Solutions for the Built Environment 3 Credits
Grading Scheme: Letter Grade
Uses case studies to examine how sustainability can be achieved in the built environment, from choosing materials and finishes to patterns of regional land use.
Prerequisite: BCN 1582 or IDS 2154, or a course approved in the topic area.

DCP 3220 Social and Cultural Sustainability and the Built Environment 3 Credits
Grading Scheme: Letter Grade
Explores the importance of considering the human users of the built environment when searching for sustainable solutions. Examines social, behavioral and multicultural perspectives related to social sustainability.
Prerequisite: BCN 1582 or IDS 2154, or a course approved in the topic area, and junior or senior standing.

DCP 4290 Capstone Project in Sustainability and the Built Environment 6 Credits
Grading Scheme: Letter Grade
Undertake an individual project under the direction of a faculty member, with a focus on comprehensive solutions to a problem in sustainability.
Prerequisite: DCP 4941.

DCP 4911 Undergraduate Research in Design, Construction, and Planning. 0-3 Credits
Grading Scheme: S/U
Undertake firsthand, supervised research with a faculty advisor or postdoctoral or graduate student mentor. Projects may involve inquiry, design, investigation, scholarship, creativity, discovery or application. (S-U)

DCP 4941 Practicum in Sustainability and the Built Environment 6 Credits
Grading Scheme: Letter Grade
Students from diverse backgrounds engage in service and learning through the development of sustainable solutions to challenges in the built environment.
Prerequisite: DCP 3210 and DCP 3220.

DCP 4942 Field Experience in Sustainability and the Built Environment 1-6 Credits
Grading Scheme: S/U
Field experience with a government, non-government or private office that focuses on issues of sustainability.
Prerequisite: DCP 3210.

Swahili | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

SSW 3303 Swahili Oral Literature 3 Credits
Grading Scheme: Letter Grade
Introduces various genres of Swahili oral literatures and shows their importance, relevance and function within Swahili culture.

SWA 1130 Beginning Swahili 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

SWA 1131 Beginning Swahili 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: SWA 1130 with minimum grade of C, or S, or the equivalent.

SWA 2200 Intermediate Swahili 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: SWA 1131 with minimum grade of C or S, or the equivalent.

SWA 2201 Intermediate Swahili 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: SWA 2200 with minimum grade of C or S, or the equivalent.

SWA 3410 Advanced Swahili 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: SWA 2201 with minimum grade of C, or the equivalent.

SWA 3411 Advanced Swahili 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study of the four skills with attention to more complex structures.
Prerequisite: SWA 3410 with minimum grade of C, or S, or the equivalent.

SWA 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course.
Prerequisite: instructor permission.

SWW 4100 Readings in Swahili 3 Credits
Grading Scheme: Letter Grade

Telecommunication

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Students who have not been admitted to the College of Journalism and Communications must have a 3.0 overall grade point average to enroll in any course other than RTV 2100, RTV 3405, RTV 3601, and RTV 4420.

Entry into the broadcast news sequence is limited to students in the Department of Telecommunication who have taken a competitive entrance exam. Contact the department office for the examination date.

Courses

JOU 3002 Understanding Audiences 3 Credits
Grading Scheme: Letter Grade
Overview of the nature of media audiences and their behaviors, as well as industry measurement practices and applications.
Prerequisite: Junior standing.

MMC 1009 Introduction to Media and Communications 1 Credit
Grading Scheme: Letter Grade
Introduces the tools, resources and academic and extra-curricular activities offered by the College of Journalism and Communications. Includes lessons on the history and organization of the college and academic and career preparation.
Prerequisite: 1JM or exploratory major, 2JM, or 3JM classification, or instructor approval.

MMC 2121 Writing Fundamentals for Communicators 3 Credits
Grading Scheme: Letter Grade
One-third of the course is to ensure students have sufficient skill in grammar and punctuation to write with clarity. In two-thirds of the course, students put principles of good writing into practice with short writing assignments that have real-world applications.

MMC 2740 Introduction to Media and Sports 1 Credit
Grading Scheme: Letter Grade
Introduces sports professions relative to opportunities, responsibilities and current issues involving sports media professionals. Topics include distinctions among careers in sports media, including sports journalism and communications, values, ethics and issues related to race, gender and sexual orientation, and emerging media.

MMC 3030 Personal Branding for Communicators 1 Credit
Grading Scheme: Letter Grade
Professional development course that stresses how to communicate and connect as professionals. Emphasizes mastery of writing, speaking, presentation and employment-seeking skills, working with media, handling media interviews and using social media to establish a professional identity.
Prerequisite: 3JM designation.

MMC 3203 Ethics and Problems in Mass Communications 3 Credits
Grading Scheme: Letter Grade
A cross-disciplinary introduction to ethics-relevant situations faced by media professionals. Topics include professional standards of conduct, audience representation and engagement and issues associated with the production, presentation and delivery of messages that reflect the best interests of audiences, clients and stakeholders.
Prerequisite: 2JM designation and ADV 3008, JOU 1001, PUR 3000 or RTV 3001 with minimum grade of C.

MMC 3210 Sports Media Law and Ethics 3 Credits
Grading Scheme: Letter Grade
Instruction and analysis of laws, cases and legal and ethical issues related to sports and media. Gain a working knowledge of legal and ethical issues and recent court decisions, and develop critical analytical perspectives on actual examples of recent sports media legal and ethical problems.
Prerequisite: Junior standing.

MMC 3254 Media Entrepreneurship 1 Credit
Grading Scheme: Letter Grade
Introduces media entrepreneurship with a focus on how digital technologies are transforming industries. Students work in teams to develop new digital media businesses. Develop and pitch ideas, explore market analysis, develop business and financial plans and study social media strategies.
Prerequisite: sophomore standing.

MMC 3260 Communications on the Internet 3 Credits
Grading Scheme: Letter Grade
History, development and current state of online communications from teletext to the World Wide Web. Focuses on how online services relate to mass media in the past, present and future. Analyzes content methods, audiences and income sources. Create online projects related to mass communication.
Prerequisite: 3JM designation or instructor permission.

MMC 3420 Consumer and Audience Analytics 3 Credits
Grading Scheme: Letter Grade
Provides practical analytical skill-sets, benefiting those who plan careers in analytics/research, social media, media business, advertising/marketing and public relations.
Prerequisite: Junior standing.

MMC 3614 Media and Politics 3 Credits
Grading Scheme: Letter Grade
Provides an understanding of the role of the media in the political system. Topics include televised debates, political advertising, political journalism, Internet and alternative media.

MMC 3630 Social Media and Society 3 Credits
Grading Scheme: Letter Grade
Explores the structure and consequences of the growing presence of social media networks. Addresses such areas as privacy, democracy, health care, commerce, entertainment, and journalism.
Prerequisite: Junior standing.

MMC 4302 World Communication Systems 3 Credits
Grading Scheme: Letter Grade
Theoretical bases of world mass media systems, international channels of communications, analysis of press and broadcasting systems by regional and national categories.

RTV 2100 Writing for Electronic Media 3 Credits
Grading Scheme: Letter Grade
A preprofessional course designed to provide fundamental instruction and practice in writing for the electronic media.
Prerequisite: 6 credits of English composition, sophomore standing or above, and the ability to type 20 words per minute.

RTV 3001 Introduction to Media Industries and Professions 3 Credits
Grading Scheme: Letter Grade
Introduces the cultural, social, legal, business and career aspects of the electronic media.

RTV 3101 Advanced Writing for Electronic Media 3 Credits
Grading Scheme: Letter Grade
Study and practice of electronic media writing, including commercials, corporate communication, documentaries, drama and adaptations. (WR)
Prerequisite: RTV 2100 or MMC 2100 and RTV 3001 with minimum grades of C and sophomore standing or higher in telecommunication.
Attributes: Satisfies 6000 Words of Writing Requirement

RTV 3320 Electronic Field Production 3 Credits
Grading Scheme: Letter Grade
Advanced electronic field production and editing theory and practice.
Prerequisite: RTV 3101 and RTV 3511 with minimum grades of C.

RTV 3405 Media and Society 3 Credits
Grading Scheme: Letter Grade
Examines the structure and effects of television in such areas as politics gender race and violence. Discusses criteria for evaluating television content. (S)
Attributes: General Education - Social Science

RTV 3411 Race, Gender, Class and the Media 3 Credits
Grading Scheme: Letter Grade
Analyzes issues confronting the communications industries, professionals and media audiences in relation to the context of global and national diversity.

RTV 3502C Introduction to Sports Production 3 Credits
Grading Scheme: Letter Grade
Prepares for Sports Broadcasting Production by developing professional skills specific to sports media. Through active participation and hands-on experiences, sharpen storytelling skills and develop shooting and editing abilities. Covers multiple sports, providing opportunities to create diversified content for professional portfolios.
Prerequisite: (VIC 3001 or JOU 3220C) and (MMC 2121 or JOU 3101 or RTV 2100).

RTV 3511 Fundamentals of Production 3 Credits
Grading Scheme: Letter Grade
Basic principles and operations of radio and television equipment for utilization in industry and commercial and educational radio television stations. Students are required to purchase special computer equipment.
Prerequisite: RTV 2100 or MMC 2100 or JOU 3109C and RTV 3001 with minimum grades of C.

RTV 3516 Electronic Field Production II 4 Credits
Grading Scheme: Letter Grade
Gives career-path communication students advanced instruction in the use of digital audio and video production tools as well as the fundamentals of effective visual storytelling.
Prerequisite: RTV 3320 with a grade of C or better;
Corequisite: RTV 4929C.

RTV 3593 Multimedia Sports Reporting 3 Credits
Grading Scheme: Letter Grade
Instruction and training in sports information gathering and writing, interviewing and reporting. Special emphasis on enhancing sports writing skills, basic sports production for radio, generation of sports journalism for radio and the internet, and ethics and values of quality sports reporting.
Prerequisite: C or better in RTV 2100, MMC 2100, or JOU 3109C. Approval of Director of Sports Journalism and Communications in conjunction with sports personnel at WRUF-AM ESPN 850.

RTV 3945 Electronic Media Practicum 1-3 Credits
Grading Scheme: S/U
Provides an immersive experience in one or more areas of electronic media operations, such as program production, journalism, audience research, sales or promotions. (S-U)
Prerequisite: instructor permission.

RTV 4420 New Media Systems 3 Credits
Grading Scheme: Letter Grade
New electronic media systems of mass communication in cable television and satellite communication.
Prerequisite: RTV 2100 or MMC 2100 and RTV 3001 with minimum grade of C and junior standing, or instructor permission.

RTV 4432 Ethics and Problems in Telecommunication 3 Credits
Grading Scheme: Letter Grade
Investigation and discussion of social problems, ethics and responsibilities in telecommunication.
Prerequisite: RTV 2100, RTV 3001, RTV 3405 and junior standing.

RTV 4500 Telecommunication Programming 3 Credits
Grading Scheme: Letter Grade
Audience, economic and placement considerations in scheduling programs for broadcast radio, television and cable television, and other electronic media of mass communication. This course must be completed before enrolling in RTV 4800.
Prerequisite: RTV 2100 or MMC 2100 and RTV 3001 with minimum grades of C.

RTV 4506 Telecommunication Research 3 Credits
Grading Scheme: Letter Grade
Techniques in telecommunication research. Strategies of analysis of audience attitudes and characteristics, and ascertainment of community needs. Emphasis on survey research, sampling techniques and interpretation of market and ratings data.
Prerequisite: RTV 4500 with minimum grade of C.

RTV 4590 Digital Games in Communications 3 Credits
Grading Scheme: Letter Grade
Focuses on the application of digital games in the communication fields including journalism (news games), entertainment (transmedia storytelling/alternate reality game), advertising (advergames), and other fields such as education, health, and politics.
Prerequisite: junior standing.

RTV 4591 Applications of Mobile Technology 3 Credits
Grading Scheme: Letter Grade
Review of developments of mobile devices and use these tools in the creation and distribution of content. Instruction in developing apps.
Prerequisite: junior standing.

RTV 4700 Telecommunication Law and Regulation 3 Credits
Grading Scheme: Letter Grade
Legal structure and regulation of telecommunications industries, First Amendment and regulatory constructs of broadcast, cable satellite and the Internet, and defamation libel and copyright law.
Prerequisite: RTV 2100 or MMC 2100 and RTV 3001 with minimum grade of C.

RTV 4800 Telecommunication Planning and Operations 3 Credits
Grading Scheme: Letter Grade
Organization and administration of the local telecommunication outlet, including personnel supervision, financial control, regulatory requirements and social responsibilities.
Prerequisite: RTV 4500 and (RTV 4506 or MMC 3420).

RTV 4811 Innovation in Media 3 Credits
Grading Scheme: Letter Grade
Overview of the processes and practice innovation and entrepreneurship as applied to the mass communication industries.
Prerequisite: RTV 2100 and RTV 3001.

RTV 4905 Individual Projects in Telecommunication 1-3 Credits
Grading Scheme: Letter Grade
The student and the instructor choose a problem or project that will give the student experience in telecommunication.
Prerequisite: 10 credits minimum of junior/senior-level telecommunication courses, and instructor and department permission.

RTV 4910 Telecommunication Undergraduate Research 0-3 Credits
Grading Scheme: S/U
Provides an opportunity for firsthand, supervised research. "Research" is defined as mentored, but self-directed, work that enables individuals or a small group to explore an issue of interest to them and to communicate the results to others. (S-U)
Prerequisite: RTV 2100 or MMC 2100 or JOU 3109C and RTV 3001 with minimum grades of C or instructor permission.

RTV 4929C Senior Advanced Workshop in Telecommunication Production 1-3 Credits
Grading Scheme: Letter Grade
Requires three hours per week outside of class for work at assigned production sites. Emphasis is on producing sophisticated video productions in various formats, including drama, sports, documentaries and corporate communication. Topics can include concept development and scriptwriting, directing, advanced camera and lighting techniques, post-production and special effects/graphics.
Prerequisite: RTV 3101, RTV 3511 and RTV 3320 with minimum grades of C, and instructor permission.

RTV 4930 Special Study in Telecommunication 1-3 Credits
Grading Scheme: Letter Grade
Variable content, providing opportunity for study in areas of broadcasting such as television staging and lighting, film criticism, communication theory and other fields.
Prerequisite: instructor permission.

RTV 4940 Telecommunication Internship 1-4 Credits
Grading Scheme: S/U
Student and instructor will select an appropriate work area related to the field of broadcasting for on-the-job training. Student will work a minimum of 100 hours on the job for every credit to be received. Progress reports and summary required. (S-U)
Prerequisite: appropriate professional courses, a 2.5 GPA and department permission.

RTV 4959C Sports Capstone 3 Credits
Grading Scheme: Letter Grade
Integrates material from previous courses and requires each student to prepare a final project as well as a comprehensive e-portfolio to assist the student in a job search. Prepares students to perform satisfactorily in entry-level sports communication and media positions.
Prerequisite: PUR 3463 and JOU 4313C with minimum grades of C.

VIC 3001 Sight, Sound and Motion 4 Credits
Grading Scheme: Letter Grade
Visual literacy is a prerequisite for success in most areas of mass communication. Teaches fundamentals of design across print, web and multimedia platforms. Also emphasizes how visual forms convey messages to readers.
Prerequisite: sophomore standing.

Theatre and Dance

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

DAA 1000 Fundamentals of Dance Technique 3 Credits
Grading Scheme: Letter Grade
Practice and principles of fundamentals and stylistic characteristics common to ballet, jazz and modern dance. (H)
Attributes: General Education - Humanities

DAA 2104 Basic Modern Dance 2 Credits
Grading Scheme: Letter Grade
Experience in beginning level technique, readings, observations and movement exploration.
Prerequisite: DAA 1000 with minimum grade of C, or audition.

DAA 2204 Basic Ballet 2 Credits
Grading Scheme: Letter Grade
Basic ballet technique with discussion of terminology and history.
Prerequisite: DAA 1000 with minimum grade of C, or audition.

DAA 2331 West African Dance and Music 2 Credits
Grading Scheme: Letter Grade
Introduces traditional West African dance and music. Focuses on the learning of material emphasizing practice and performance with application to classroom and outreach-oriented projects.

DAA 2381 World Dance and Intercultural Performance 3 Credits
Grading Scheme: Letter Grade
Introduces the performance of traditional and popular dance styles representing a selection of world dance perspectives. Emphasizing practice and performance, the course examines dance forms in relation to their specific cultural contexts. Readings, video viewing and class projects enhance laboratory exploration. (H and N)
Prerequisite: dance major/minor or audition.
Attributes: General Education - Humanities, General Education - International

DAA 2504 Basic Jazz 2 Credits
Grading Scheme: Letter Grade
Basic jazz technique with emphasis on style, movement skills and vocabulary.
Prerequisite: DAA 1000 with minimum grade of C, or audition.

DAA 2610 Dance Composition 1 2 Credits
Grading Scheme: Letter Grade
Introduces improvisation and composition with emphasis on process and movement elements. Solo choreography.
Prerequisite: DAA 2104 or instructor permission.

DAA 2611 Dance Composition 2 2 Credits
Grading Scheme: Letter Grade
Practice and study of basic compositional crafting, emphasizing solo and small group works.
Prerequisite: DAA 2610 or instructor permission.

DAA 3108 Intermediate Modern Dance 2 Credits
Grading Scheme: Letter Grade
Experience in intermediate level technique, readings, observations and movement exploration exercises.
Prerequisite: audition.

DAA 3113 Modern Dance for the Theatre 3-2 3 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

DAA 3114 Modern Dance 3 3 Credits
Grading Scheme: Letter Grade

DAA 3208 Intermediate Ballet 2 Credits
Grading Scheme: Letter Grade
Intermediate ballet technique with discussion of terminology and theory.
Prerequisite: audition.

DAA 3224 Pointe 1 Credit
Grading Scheme: Letter Grade
Instruction in pointe technique with the study of variations from classical ballet repertory.
Prerequisite: DAA 3208 or higher, and faculty permission.

DAA 3508 Intermediate Jazz 2 Credits
Grading Scheme: Letter Grade
Intermediate level classes in jazz combining technique, style and movement skills.
Prerequisite: audition.

DAA 3524 Tap 2 Credits
Grading Scheme: Letter Grade
Basic and intermediate techniques of musical theatre styles and choreography.
Prerequisite: audition.

DAA 3614 Dance Composition 3 2 Credits
Grading Scheme: Letter Grade
Practice and study in choreography with focus on various compositional styles, both traditional and nontraditional.
Prerequisite: DAA 2611 or instructor permission.

DAA 3615 Dance Composition 4 2 Credits
Grading Scheme: Letter Grade
Practice and study in choreography of group works, including theory and aesthetics.
Prerequisite: DAA 3614 or instructor permission.

DAA 3634 Commercial Choreography 2 Credits
Grading Scheme: Letter Grade
Practice and study in choreography with focus on various compositional styles, both traditional and nontraditional.
Prerequisite: DAA 2611 or instructor permission.

DAA 4110 Advanced Modern Dance 2 Credits
Grading Scheme: Letter Grade
Advanced level techniques, readings, observation, informal performance and movement exploration exercises.
Prerequisite: audition.

DAA 4112 Modern Dance for the Theatre 4-2 3 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

DAA 4210 Advanced Ballet 2 Credits
Grading Scheme: Letter Grade
Advanced ballet technique with discussion of terminology and style.
Prerequisite: audition.

DAA 4510 Advanced Jazz 2 Credits
Grading Scheme: Letter Grade
Teaches advanced-level jazz technique and style, including a study of style variations, readings, observations, movement projects and choreography.
Prerequisite: audition.

DAA 4685 Dance Ensemble 1 Credit
Grading Scheme: Letter Grade
Experience in dance ensemble: preparation, performance and production.
Prerequisite: audition.

DAA 4755 Pilates Technique for the Dancer 1-3 Credits
Grading Scheme: Letter Grade
Systematic achievement of strength, tone, flexibility and posture for optimal physical performance in dance. May be repeated with a change of content up to six credits.
Corequisite: junior or senior level dance major or instructor permission.

DAA 4920 Summer Dance Intensive 1-6 Credits
Grading Scheme: Letter Grade
An intensive workshop including technique (ballet, jazz, modern, multicultural), improvisation, composition, repertory, production work and culminating in performance.
Prerequisite: audition.

DAA 4930 Special Topics in Dance 1-3 Credits
Grading Scheme: Letter Grade
Lecture, seminar or studio sessions covering selected topics of current interest in dance.
Prerequisite: instructor permission.

DAE 4300 Dance Teaching Methods 3 Credits
Grading Scheme: Letter Grade
Methods and skills for teaching in ballet, modern and jazz, including theory and practice.
Prerequisite: junior or senior level dance major/minor and instructor permission.

DAN 2100 Dance Appreciation for the Twenty-first Century 3 Credits
Grading Scheme: Letter Grade
A critical examination of dance as a form of communication and as an art; a cross-cultural survey of theories and styles of dance, their relationships to societal contexts and to other art forms. (H and N)
Attributes: General Education - Humanities, General Education - International

DAN 3614L Music for Dance 3 Credits
Grading Scheme: Letter Grade
Explores musical forms and their direct relationship to dance and dance-making. Includes basic music reading skills, creating sound scores, the basic elements of music and how to read and analyze scores as choreographers and musicians do.
Prerequisite: instructor permission.

DAN 3644 20th Century Music and Literature for Dance 2 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

DAN 3775 Dance in Medicine 2-3 Credits
Grading Scheme: Letter Grade
This experiential course explores the links between the creative and the healing arts, focusing on the many ways that dance and movement can be used to enhance the healing process. It includes lecture/discussion, student workshops in dance and the other arts and laboratory experiences (3 hours/week for 2 credits, 6 hours/week for 3 credits) with Shands Hospital's Arts in Medicine program. This course is appropriate for students of the arts and/or of health related fields who are willing to access their creative potentials.
Prerequisite: instructor permission.

DAN 4124 Dance History 3 Credits
Grading Scheme: Letter Grade
Survey of the historical development of dance with reference to social contexts, periods and culture. (H and N)
Prerequisite: DAN 2100 with minimum grade of C or dance major/minor.
Attributes: General Education - Humanities, General Education - International

DAN 4154 Dance Criticism 2 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

DAN 4155 Seminar in Dance Theory and Criticism 3 Credits
Grading Scheme: Letter Grade
Survey of theoretical and critical concepts of dance with emphasis on diversity of styles and concepts as set forth by professional dance companies.
Prerequisite: DAN 4124 and dance major.

DAN 4180 Professional Development for Dance 1 Credit
Grading Scheme: Letter Grade
Addresses crucial professional issues in dance. Student knowledge of technique, professional resources and networking, dance research, current events and professional presentation with experiences to prepare major for graduation into a career in dance.
Prerequisite: dance major.

DAN 4434 Laban Move Analysis 3 Credits
Grading Scheme: Letter Grade

DAN 4503 Dance Production 1 2 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

DAN 4860L Dance Clinical Practice 1-3 Credits
Grading Scheme: Letter Grade
Offers practical clinical experience in the use of movement to enhance healing in a hospital or community setting. The student will work though Shands Arts in Medicine or a comparable program in individually contracted situations.
Prerequisite: DAN 3755 and instructor permission.

DAN 4905 Individual Study 1-4 Credits
Grading Scheme: Letter Grade
A reading, research, practical or creative project in an area of dance.
Prerequisite: instructor permission.

DAN 4912 Senior Dance Project 2 Credits
Grading Scheme: Letter Grade
Offered in Miami only.
Prerequisite: dance major and instructor permission.

DAN 4959 Senior Project 1-4 Credits
Grading Scheme: Letter Grade
A publicly presented project representing the culmination of the student's university experience and demonstrating a high level of competence in dance performance, choreography or production.
Prerequisite: instructor permission.

HUM 3599 Applied Theater for Health: Theory & Practice 3 Credits
Grading Scheme: Letter Grade
Immersion in the world of applied theatre for health education, community development, and social change. Develop an understanding of how theatre can be a catalyst for discussion, change, and health promotion by investigating the work of revolutionary artists, as well as contemporary applied theatre practitioners.
Prerequisite: Sophomore status or higher.

MVV 4341 Voice for Theatre 2 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

ORI 2000 Oral Performance of Literature 1 3 Credits
Grading Scheme: Letter Grade
Introduces the presentational mode of interpreting literature with emphasis on the improvement and application of vocal skills.

THE 2000 Theatre Appreciation 3 Credits
Grading Scheme: Letter Grade
Studies history, literature, forms, styles and philosophies of theatre from a humanistic approach. (D and H)
Attributes: General Education - Diversity, General Education - Humanities

THE 3173 Contemporary European Theatre 3 Credits
Grading Scheme: Letter Grade
Introduces the theatre scene in present-day Western and Eastern Europe with emphasis on UK, France, Germany. Readings and discussions of dramatic literature and criticism.
Prerequisite: THE 2000 or THE 2020 and junior/senior level, or instructor permission.

THE 3231 African American Theatre History and Practice 3 Credits
Grading Scheme: Letter Grade
Examines origins and development of theatre by, for and about Black Americans
Prerequisite: THE 2000 or THE 2020.

THE 3234 Diversity and Multiculturalism in American Theatre 3 Credits
Grading Scheme: Letter Grade
Development of images of marginalized peoples as presented in the American Theatre from Colonial period to the present. (H and D)
Prerequisite: THE 2000 or THE 2020.
Attributes: General Education - Diversity, General Education - Humanities

THE 4110 History of Theatre on Stage 1 3 Credits
Grading Scheme: Letter Grade
Surveys the history of dramatic literature and stage performance from Greek and Roman times to the Restoration, including Japan and India. Concentrating on plays, theatrical spaces and performance practices of each era in the context of social and artistic movements. (H and N)
Prerequisite: THE 2000 or THE 2020.
Attributes: General Education - Humanities, General Education - International

THE 4111 History of Theatre on Stage 2 3 Credits
Grading Scheme: Letter Grade
Continues the survey of THE 4110 from the 18th century to the present, with featured segments on African and contemporary world theatre. Particular emphasis on the 19th century and the emergence of modernist movements: realism, expressionism, Artaud, Brecht. (H and N)
Prerequisite: THE 2000 or THE 2020.
Attributes: General Education - Humanities, General Education - International

THE 4260 Historic Costume for the Stage 3 Credits
Grading Scheme: Letter Grade
Examines the costume timeline, its relationship to the general climate of the era and its application by theatrical designers.

THE 4285 History of Decor and Architecture for the Stage 3 Credits
Grading Scheme: Letter Grade
Studies architecture and decor from prehistoric time to the 19th century as they reflect time and spirit in preparation for play production.

THE 4481 Production Dramaturgy 3 Credits
Grading Scheme: Letter Grade
Introduces the field and concepts of production dramaturgy. Includes script analysis, text editing, research, adaptation, new play development, season selection and programs. Students complete a production protocol.
Prerequisite: THE 2000 or THE 2020.

THE 4905 Individual Study 1-4 Credits
Grading Scheme: Letter Grade
A reading, research or performance project.
Prerequisite: instructor permission.

THE 4930 Special Topics in Theatre 1-3 Credits
Grading Scheme: Letter Grade
Lecture, seminar or studio sessions covering selected topics of current interest in theatre.
Prerequisite: instructor permission.

THE 4945 Summer Repertory Theatre 3-9 Credits
Grading Scheme: Letter Grade
Practical experience in repertory theatre with direct skills application in all areas of theatre production.
Prerequisite: instructor permission.

THE 4950 Production and Performance 1 Credit
Grading Scheme: Letter Grade
Participation in the production program of the curriculum with work in preparation and performance. Focus on area of specialization.
Prerequisite: instructor permission.

THE 4959 Senior Project 1-4 Credits
Grading Scheme: Letter Grade
Final project presented in public performance demonstrating expertise in declared area of specialization.
Prerequisite: BFA majors and instructor permission.

THE 4970 Senior Project 1 Credit
Grading Scheme: Letter Grade
Senior project for Bachelor of Arts theatre majors. Completion of a research project and/or preparation of a dramaturgical project to be undertaken with advisor's consent in the final semester.
Prerequisite: BFA majors and instructor permission.

TPA 2074 Drawing and Rendering 3 Credits
Grading Scheme: Letter Grade
Drawing and painting techniques unique to the theatre. Emphasis on portfolio development and media experimentation: watercolor, markers, charcoal and acrylics.

TPA 2075 Scene Painting 3 Credits
Grading Scheme: Letter Grade
Utilization of advanced and experimental techniques unique to theatre graphics; exploration of various media for 3-dimensional representation in scene and design and model building.
Prerequisite: TPA 2074.

TPA 2120C Beginning Makeup 1 Credit
Grading Scheme: Letter Grade
Introduces the skill and artistry of theatrical makeup.
Prerequisite: theatre or dance major/minor.

TPA 2202C Stagecraft 4 Credits
Grading Scheme: Letter Grade
Introduces skills and craft of technical theatre. Includes knowledge of materials, techniques, tools and supplies basic to the execution of environment. Course requires additional laboratory hours.
Prerequisite: theatre or dance major/minor.

TPA 2232C Beginning Costume 3 Credits
Grading Scheme: Letter Grade
Introduces skills and craft of costume design and execution. Knowledge of materials, techniques and tools basic to revelation of character.
Prerequisite: theatre/dance major or theatre production minor.

TPA 3208 Drawing/Drafting for the Stage 3 Credits
Grading Scheme: Letter Grade
Techniques and basic principles of drafting as applied to stage design: lights and sets.
Prerequisite: TPA 2202C or TPA 2232C; theatre major or minor.

TPA 3217 Introduction to Lighting and Sound 4 Credits
Grading Scheme: Letter Grade
Introduces electricity and technical skills basic to lighting and sound technology.

TPA 3238 Advanced Costume Construction 3 Credits
Grading Scheme: Letter Grade
Focuses on costume construction skills and techniques; patterning, fitting, alteration, dyeing and accessories.
Prerequisite: TPA 2232C and theatre major.

TPA 4020 Lighting Design 3 Credits
Grading Scheme: Letter Grade
Lighting aesthetics, design and control; application of principles of design to lighting in the theatre.
Prerequisite: TPA 3217.

TPA 4021 Lighting Design 2 3 Credits
Grading Scheme: Letter Grade
Advanced lighting design with focus on automation programming and presentation techniques.
Prerequisite: TPA 4020.

TPA 4049 Costume Design 3 Credits
Grading Scheme: Letter Grade
Application of fundamentals of costume design to various genres of dramatic literature.
Prerequisite: TPA 2074.

TPA 4066 Scene Design 3 Credits
Grading Scheme: Letter Grade
Studies the basic processes and functions of scenic design within theatrical production. Development of the ability to create spaces based on scripts and choreography.
Prerequisite: TPA 2074.

TPA 4076 Advanced Theatre Graphics 3 Credits
Grading Scheme: Letter Grade
Specialized study in scene painting with focus on professional studio work and union examination.
Prerequisite: TPA 2074 and TPA 3208.

TPA 4206 Advanced Crafts for the Stage 3 Credits
Grading Scheme: Letter Grade
Emphasizes advanced materials construction for the designer/technician in scenic design and technical direction.
Prerequisite: TPA 2202C and TPA 2232C.

TPA 4239 Costume Patterning 3 Credits
Grading Scheme: Letter Grade
Advanced costume construction of period garments. Pattern drafting, tailoring and period accessories.
Prerequisite: TPA 2232C and production majors/minors.

TPA 4240 Costume Patterning: Draping 3 Credits
Grading Scheme: Letter Grade
Utilizes draping techniques to create garments.
Prerequisite: TAP 2232C and TPA 4239 and production major/ minor.

TPA 4352 Digital Design for Theatre and Dance 3 Credits
Grading Scheme: Letter Grade
Lectures and hands-on labs with emphasis on technologically innovative uses of media. Students attain a performing arts foundation of the history and intersections of live performance with projection, film, video, art and interactive sound design through experimentation with current media tools.
Prerequisite: TPA 3217 or instructor permission.

TPA 4601 Stage and Theatre Management 3 Credits
Grading Scheme: Letter Grade
Studies stage and theatre management skills from technical expertise.
Prerequisite: TPA 2202C, TPA 2232C, TPA 3217 and TPP 2110.

TPA 4930 Special Topics in Theatre Production 1-3 Credits
Grading Scheme: Letter Grade
Lecture, seminar or studio sessions covering selected topics of current interest in theatre production.

TPA 4931 Advanced Stage Management Seminar 1 Credit
Grading Scheme: Letter Grade
This seminar serves as a forum for peer sharing and problem solving on current production assignments. Rotating topics are specific to the stage management profession and industry trends.
Prerequisite: TPA 4601 with minimum grade of C.

TPA 4940 Internship in Theatre Design or Production 1-9 Credits
Grading Scheme: S/U
Work with a professional theatre, dance, ballet, opera company or other approved professional situation. (S-U)

TPA 4946 Production Practicum 1-3 Credits
Grading Scheme: Letter Grade
Production experience in the design or execution of department productions.

TPP 2100 Acting for Non-Majors 3 Credits
Grading Scheme: Letter Grade
The discipline and the creative process of acting, including formal and improvisational techniques for developing vocal, physical and analytical skills. (H)
Attributes: General Education - Humanities

TPP 2110 Acting 1-Instrument and Discipline 3 Credits
Grading Scheme: Letter Grade
The foundation for all performance majors and students seeking entrance into the program. Introduces basic physical, vocal and analytical concepts, methods, vocabulary, discipline, and explores the creative process through exercises in observation and awareness.
Prerequisite: theatre or dance major.

TPP 2250 Song and Dance for the Theatre 1 Credit
Grading Scheme: Letter Grade
Preparation and performance in song and dance ensemble in musical revues and cabaret; development of style, interpretation and flexibility.
Prerequisite: instructor permission; open to music theatre students; audition required.

TPP 2260 Acting for the Camera 3 Credits
Grading Scheme: Letter Grade
Principles and techniques of various performance methods in acting for television and motion pictures.
Prerequisite: TPP 3103.

TPP 2282 Movement Training for the Actor 1 3 Credits
Grading Scheme: Letter Grade
Emphasizes physical preparation and character development through movement. Focusing on the preparation of the body, this course aids the actor's approach to performance.
Prerequisite: TPP 2110 and theatre major.

TPP 3103 Acting 2: Analysis and Application 3 Credits
Grading Scheme: Letter Grade
Experimentation with scripted material: scene study, analysis, audition and performance.
Prerequisite: refer to the department.

TPP 3113 Acting 3 3 Credits
Grading Scheme: Letter Grade
Emphasizes versatility and expanding the repertory of roles through physical, vocal and psychological transformation.
Prerequisite: TPP 3103 with a minimum grade of C and theatre major.

TPP 3124 Beginning Improvisation 1-3 Credits
Grading Scheme: Letter Grade
The fundamentals of improvisation; learn performance techniques concerning conceptual agreement, character creation, team building, and active listening in order to create intelligent and honest scenework.

TPP 3142 Acting 3/2 3 Credits
Grading Scheme: Letter Grade
Continuation of the third level acting course with emphasis on beginning the development of the professional actor's knowledge of theatre repertoire.

TPP 3165 Voice and Movement 3/2 3 Credits
Grading Scheme: Letter Grade
Offered in Miami only.

TPP 3251 Fundamentals of Music Theatre Acting 3 Credits
Grading Scheme: Letter Grade
Acting techniques as applied to music theatre material. Audition techniques in music and dance.
Prerequisite: TPP 3103 with a minimum grade of C and theatre performance major.

TPP 3252 Music Theatre Acting Styles 3 Credits
Grading Scheme: Letter Grade
Analysis and preparation of roles from music theatre genres. Exploration of vocal styles and staging.
Prerequisite: TPP 3251 with a minimum grade of C and theatre major.

TPP 3253 Advanced Studies in Music Theatre Acting 3 Credits
Grading Scheme: Letter Grade
Analysis and preparation in musical theatre styles, repertoire and technique. Vocal skills and choreography techniques and audition techniques are examined.
Prerequisite: TPP 3252 with a minimum grade of C and theatre major.

TPP 3283 Movement Training for the Actor 2 3 Credits
Grading Scheme: Letter Grade
Character development through movement analyses; exploration of the physical demands pf performance; practical applications of movement vocabulary to aid the actor's search for believability.
Prerequisite: TPP 2282 with a minimum grade of C and theatre major.

TPP 3290 Introduction to the Alexander Technique 3 Credits
Grading Scheme: Letter Grade
Introduces the Alexander Technique (AT); a mind-body approach to the use of self as applied to acting.
Prerequisite: B.A. or BFA theatre major or instructor permission.

TPP 3311 Directing 3 Credits
Grading Scheme: Letter Grade
Practical application of theoretical concepts of directing applied to scene study.
Prerequisite: refer to the department.

TPP 3650 Script Analysis 3 Credits
Grading Scheme: Letter Grade
Teaches the skills of script analysis for actors, directors and designers using a formalist approach.
Prerequisite: THE 2000 or THE 2020 and theatre major.

TPP 4114 Acting 4 3 Credits
Grading Scheme: Letter Grade
Continuation of Acting series, TPP 3103 / 3113 / 4114.
Prerequisite: TPP 3113 with a minimum grade of C and theatre major.

TPP 4140 Acting: Shakespeare and Period Styles 3 Credits
Grading Scheme: Letter Grade
Experimentation and experience with classical literature: analysis and performance.
Prerequisite: TPP 4114 with a minimum grade of C and theatre major.

TPP 4144 Acting Style: 18th Century to Post Modernism 3 Credits
Grading Scheme: Letter Grade
Experimentation and experience with the stylistic techniques, analysis, and performance of plays from the 18th century to Post-Modernism.
Prerequisite: TPP 4140 with a minimum grade of C and theatre major.

TPP 4221 Acting: Audition Workshop and Synthesis 3 Credits
Grading Scheme: Letter Grade
Synthesis and exploration of techniques for auditioning; information and advice about the business of acting-trade unions, contracts, agents, etc.
Prerequisite: TPP 3103 and theatre major.

TPP 4236 BFA Company Workshop 6 Credits
Grading Scheme: Letter Grade
Capstone course for all BFA Acting students. Student actors study, experiment and produce in laboratory. This course may be taken online the final semester with permission of the instructor.
Prerequisite: TPP 3113, TPP 4114, TPP 4140, TPP 4144; theatre-acting major.

TPP 4265 Acting for the Camera 3 Credits
Grading Scheme: Letter Grade
Principles and techniques of various performance methods in acting for television and motion pictures.
Prerequisite: TPP 2110.

TPP 4287 Voice, Speech and Body Training for the Actor 1 3 Credits
Grading Scheme: Letter Grade
Designed to recover and free the voice and integrate the body, mind and emotions of the actor in finding clear and honest expression in performance.
Prerequisite: THE 2020.

TPP 4288 Voice, Speech, and Body Training for the Actor 2 3 Credits
Grading Scheme: Letter Grade
A continuation of TPP 4287 with an emphasis on scene work, monologues and vocal techniques for heightened and period styles.
Prerequisite: TPP 4287 with a minimum grade of C and theatre major.

TPP 4291 Alexander Technique and the Actor 3 Credits
Grading Scheme: Letter Grade
Studies the Alexander Technique (AT) principles in greater depth and applying those principles to acting challenges. This course provides experimental integration of the AT principles in experiential anatomy, selected acting/performance techniques, voice and movement.
Prerequisite: TPP 3290.

TPP 4531 Stage Combat: Unarmed and Light Weaponry 3 Credits
Grading Scheme: Letter Grade
Introduces stage combat techniques including unarmed, rapier and dagger and/or single sword. Emphasizes safety and control.
Prerequisite: TPP 3113.

TPP 4532 Stage Combat: Theatrical Weapon Styles 3 Credits
Grading Scheme: Letter Grade
Instruction in standard armed stage combat techniques: weapon styles may include broad sword, quarterstaff, knife, small sword, sword and shield, or single sword. Safety is emphasized in the creation of the illusion of armed violence.
Prerequisite: TPP 3133 or instructor permission.
Corequisite: TPP 3113.

TPP 4600 Playwriting Workshop 3 Credits
Grading Scheme: Letter Grade
An introductory workshop in playwriting, culminating in the creation of a complete, one-act play by each student.
Prerequisite: instructor permission.

TPP 4730 Stage Dialects 3 Credits
Grading Scheme: Letter Grade
Prerequisite: TPP 3103.

TPP 4930 Special Topics in Theatre Performance 1-3 Credits
Grading Scheme: Letter Grade
Lecture, seminar or studio sessions covering selected topics of current interest in theatre performance.
Prerequisite: instructor permission.

TPP 4940 Internship in Theatre Performance 1-9 Credits
Grading Scheme: S/U
Work with a professional theatre or other approved professional situation. (S-U)

Tourism, Recreation and Sport Management

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

APK 4940C Internship 12 Credits
Grading Scheme: S/U
Internship in applied physiology and kinesiology. (S-U)
Prerequisite: department permission.

HFT 2750 Event Management 3 Credits
Grading Scheme: Letter Grade
An overview of the meetings, conventions, special events and expositions industry.

HFT 3253 Lodging Operations and Management 3 Credits
Grading Scheme: Letter Grade
Provides a realistic managerial examination of each major operating department within a lodging firm.
Prerequisite: Sophomore standing or higher.

HFT 3512 Event Promotion 3 Credits
Grading Scheme: Letter Grade
Advanced course in event promotion and sponsorship acquisition, involving a wide range of subjects relevant to event marketing from both macro (global) and micro (organization) perspectives. The course focuses on the components of development and marketing plans for various venues in the special events sector.
Prerequisite: HFT 2750.

HFT 4468 Hospitality Revenue Management 3 Credits
Grading Scheme: Letter Grade
Provides an applied understanding of the strategies and tactics used in hospitality revenue management. Addresses fundamental principles and concepts of revenue management, including capacity management, duration control, demand and revenue forecasting, discounting, overbooking practices, displacement analysis, rate management and sales mix analysis.
Prerequisite: ACG 2021.

HFT 4517 Convention Sales and Service 3 Credits
Grading Scheme: Letter Grade
Studies the scope of sales and meeting management within the hospitality industry. The reciprocal relationship between selling and service is presented within the context of hospitality marketing practices.
Prerequisite: LEI 3360.

HFT 4743 Tourism and Hospitality Marketing 3 Credits
Grading Scheme: Letter Grade
Explores a wide range of subjects relevant to tourism and hospitality marketing from both macro (global) and micro (organization) perspectives.
Prerequisite: LEI 3301 and MAR 3023.

HFT 4754 Advanced Event Management 3 Credits
Grading Scheme: Letter Grade
Advances an understanding of the strategic event management process, including the selection and assessment of methods and techniques utilized in planning, organizing, promoting and delivering major events.
Prerequisite: HFT 2750.

HLP 4933 Variable International Topics 1-6 Credits
Grading Scheme: Letter Grade
Provides the opportunity to study in a wide range of cultural settings.

LEI 2000 Introduction to Recreation and Leisure (Non-Recreation Majors) 3 Credits
Grading Scheme: Letter Grade
Understanding the various roles that recreation has in contemporary society. Provides the opportunity to examine recreation as a potential profession.

LEI 2181 Leisure Contemporary Society 3 Credits
Grading Scheme: Letter Grade
Examines leisure as a condition of being human, as a cultural mirror and as a social instrument; reflects a wide range of literature from a number of academic disciplines. (S)
Attributes: General Education - Social Science

LEI 3120 Introduction to Outdoor Recreation and Parks 3 Credits
Grading Scheme: Letter Grade
Surveys the history, terminology and current issues of outdoor recreation and parks. Overview of urban, private, NGO, local, state and federal roles in the provision of outdoor recreation opportunities. Explores the tension between recreational use and conservation values.
Prerequisite: Sophomore standing or instructor permission.

LEI 3140 Philosophy and History of Recreation 3 Credits
Grading Scheme: Letter Grade
Overview of the philosophical and historical foundations of recreation, leisure and play with the intent of providing students a base on which to interpret the recreation profession. (H)
Prerequisite: 2HH - REC or LEI or HHP majors.
Attributes: General Education - Humanities

LEI 3301 Principles of Travel and Tourism 3 Credits
Grading Scheme: Letter Grade
Overview of the travel and tourism industry. Course content covers historical, behavioral, societal and business aspects of travel and tourism.
Prerequisite: Sophomore standing or instructor permission.

LEI 3303 Fundamentals of Tourism Planning 3 Credits
Grading Scheme: Letter Grade
Examines the planning of tourism services and facilities, including the identification, planning and use of the physical, social and economic resources necessary to develop and support tourism.
Prerequisite: Sophomore standing or higher.

LEI 3320 Leadership in Recreation and Leisure Services 2 Credits
Grading Scheme: Letter Grade
Opportunity to explore and develop leadership and abilities to successfully implement recreation programs and services in leisure delivery systems.
Prerequisite: 3HH standing.

LEI 3340 Resort and Destination Development 4 Credits
Grading Scheme: Letter Grade
Studies resort and destination development and management in resort planning, development and management. Includes current examples from the industry itself as well as laboratory experience for on-site research and study.
Prerequisite: LEI 3301.

LEI 3360 Hospitality Management 3 Credits
Grading Scheme: Letter Grade
Overview of the hospitality industry, including hotel management, food and beverage operations, business and leisure travel markets, convention services, hospitality trends, quest-based customer service strategies and career opportunities.
Prerequisite: Sophomore standing or department permission.

LEI 3400 Recreation Program Design and Leadership 3 Credits
Grading Scheme: Letter Grade
Focuses on designing and staging leisure experiences using a servant leadership approach. Provides information and practical experiences required to successfully translate agency vision, philosophy and policies into the design, implementation and program evaluation of recreation program and services in community or commercial contexts.
Prerequisite: 3HH standing.

LEI 3500 Administration of Leisure Services 3 Credits
Grading Scheme: Letter Grade
Organizing and administering leisure and recreation services, emphasizing problem solving. Limited to recreation majors or those with instructor permission.
Prerequisite: 2HH-REC or LEI; Prereq or
Corequisite: LEI 3320 and LEI 3400.

LEI 3546 Park Management 3 Credits
Grading Scheme: Letter Grade
Park operations and management including planning, maintenance, law enforcement, resource management and visitor contact. Examines user conflicts and reviews case studies of existing park operations and research.
Prerequisite: FNR 3153, LEI 3140 or LEI 3250, or instructor permission.

LEI 3705 Leisure Services for People with Disabilities 3 Credits
Grading Scheme: Letter Grade
Leisure and recreation services for special population groups with a focus on access/inclusion, barriers to participation, disabling conditions, special population groups, program development, service delivery and legislation.

LEI 3843 Entrepreneurship in Tourism, Recreation and Sport Management 3 Credits
Grading Scheme: Letter Grade
Analyzes the entrepreneurial opportunities in tourism, hospitality, recreation, events and sport by examining the process of creating, planning and managing business ventures in these sectors.
Prerequisite: sophomore standing or department permission.

LEI 3921 Field Experience in TRSM 3 Credits
Grading Scheme: Letter Grade
Practical field experience in leisure service delivery. Students apply skill and knowledge as volunteers where they utilize leadership and management skills to enhance participant involvement and agency operations. In addition, the student prepares a resume, investigates agencies as potential intern sites and submits the appropriate forms for approval of an internship site.
Prerequisite: department permission.

LEI 4321 Ecotourism 3 Credits
Grading Scheme: Letter Grade
Studies the components, history, practice and current issues of nature-based tourism. Explores principles and problems of ecotourism for natural resources and host populations and includes rural tourism, economic impacts, tourism life cycle and case studies.
Prerequisite: 6 credits of biological science.

LEI 4540 Management and Supervision of Leisure Facilities and Personnel 3 Credits
Grading Scheme: Letter Grade
The management process as it relates to planning and operation of leisure service facilities. Subjects include traditional and contemporary management theory, the management process, legal and financial aspects, risk management and contemporary issues in leisure services management. Facility topics include feasibility studies and design issues.
Prerequisite: junior standing or department permission.

LEI 4570 Revenue Resources Management 3 Credits
Grading Scheme: Letter Grade
Identifies the many and variable forms of revenue resources available in recreation and the methods of managing that revenue.
Prerequisite: LEI 3400 and ACG 2021.

LEI 4800 Legal Aspects of Tourism, Events and Recreation 3 Credits
Grading Scheme: Letter Grade
Concentrates on the legal aspects of recreation, tourism, hospitality and event management. Enables students to better understand the law as it pertains to their area of specialization and improves risk management practice.
Prerequisite: LEI 2181 and LEI 3301.

LEI 4845 Outdoor Recreation Enterprises 3 Credits
Grading Scheme: Letter Grade
Introduces a range of private enterprise recreation, park and ecotourism business opportunities and provides guidance and practice in writing an operations business plan for such businesses. Examines customer motivations for engaging with outdoor recreation related businesses, product, services, marketing analysis and methods of providing excellent service.
Prerequisite: LEI 2181.

LEI 4880 Research Methods in Tourism, Recreation and Sport Management 3 Credits
Grading Scheme: Letter Grade
Introductory course providing a broad understanding of measurement and evaluation in recreation, sports, events, tourism and hospitality; introduces diverse aspects of research, from setting the theoretical background to evaluating the results of analyses.
Prerequisite: LEI 2181 or SPM 2000 and STA 2023.

LEI 4905 Variable Topics 1-4 Credits
Grading Scheme: Letter Grade
Offered upon request to meet special interests not adequately provided in other courses, such as Multidisciplinary Perspectives of Gerontology and Health and Physical Aspects of Aging.
Prerequisite: department permission.

LEI 4912 TRSM Research 0-5 Credits
Grading Scheme: S/U
Participate in supervised research experiences. For this purpose, research is defined as an independent, self-directed experience that enables the student to investigate an issue in tourism, recreation or sport management and then to communicate the results to others. (S-U)

LEI 4940 Internship in Leisure Services 1-15 Credits
Grading Scheme: S/U
Practical field experience in selected off-campus leisure service agencies. Normally taken during the last semester before graduation. (S-U)
Prerequisite: department permission.

LEI 4941 Practicum in Tourism, Event and Recreation Management 1-3 Credits
Grading Scheme: S/U
Provides practical experience for Tourism, Events and Recreation Management majors who will maintain a part-time workload in an approved setting appropriate to their specialization.
Prerequisite: HH-TRM majors only.

LEI 4955 Travel Studies 1-6 Credits
Grading Scheme: Letter Grade

PET 3121 History of Sport and Exercise Sciences 3 Credits
Grading Scheme: Letter Grade
Development of sport and exercise sciences in the United States from colonial America to the present. Interpretations of sport and exercise sciences and the relation to society.
Prerequisite: Sport Management majors only

PET 4905C Variable Topics in Exercise and Sport Sciences 1-5 Credits
Grading Scheme: Letter Grade
Offered upon request to meet students' special interests that are not adequately provided in other courses.
Prerequisite: department chair permission.

PET 4948C Practicum in Exercise and Sport Sciences 1-5 Credits
Grading Scheme: Letter Grade
Practical experience in such specialty areas as adult fitness programs, health clubs, exercise testing laboratories, clinical laboratories and athletic training rooms. May include senior thesis with oral defense.
Prerequisite: department chair permission.

SPM 2000 Introduction to Sport Management 3 Credits
Grading Scheme: Letter Grade
Introduces management, marketing, financial and legal principles regarding sport facilities, events and organizations within interscholastic, intercollegiate, professional and international sport industries. The conduct of amateur and professional sport programs.

SPM 3012 Sport and Society 3 Credits
Grading Scheme: Letter Grade
Societal implications of sport in history and heritage, youth programs, collegiate and professional situations and the involvement of minority groups, women, business and industry. (WR)
Prerequisite: sophomore standing or instructor permission.
Attributes: Satisfies 6000 Words of Writing Requirement

SPM 3204 Ethical Issues in Sport 3 Credits
Grading Scheme: Letter Grade
Review and study of ethical issues that affect sport.

SPM 3306 Sport Marketing 3 Credits
Grading Scheme: Letter Grade
Key marketing concepts and strategies in sports referent to sport consumer behavior and implications for marketing. Analyzes marketing cases to solve marketing-related problems and to help students prepare and evaluate a comprehensive marketing plan.
Prerequisite: MAR 3023 and SPM 2000 with minimum grades of C.

SPM 3403 Sport Information Management 3 Credits
Grading Scheme: Letter Grade
Instruction, Analysis, and Training in the Principles and Practice of Sport Information Management in Sports Organizations. Emphasizes Skills Essential for Sports Management Professionals, Including Handling Media Interactions Across Platforms, Problems, Crises, and Integration of Positive Communications Strategies With Strategic Goals of Sports Organizations.
Prerequisite: sophomore standing or instructor permission.

SPM 4104 Sport Facility Design and Management 3 Credits
Grading Scheme: Letter Grade
Planning and management of sport facilities.
Prerequisite: 3 or 4HH - SPM majors.

SPM 4154 Administration of Sport and Physical Activity 3 Credits
Grading Scheme: Letter Grade
Managerial principles and techniques applicable to a variety of sport, physical education and fitness settings.
Prerequisite: MAN 3025 and SPM 2000 with minimum grades of C.

SPM 4515 Sport Business and Finance 3 Credits
Grading Scheme: Letter Grade
Financial expense categories and sources of revenue for sport organizations. Determines and calculates facility revenues and non-facility revenues. Develops potential solutions for improving revenue sources to increase revenue and decrease costs while maintaining a viable product.
Prerequisite: SPM 2000.

SPM 4723 Legal Issues in Sport and Physical Activity 3 Credits
Grading Scheme: Letter Grade
Legal structures, major laws, regulations and case precedents that establish legal responsibilities, rights, privileges and controls related to sport management.
Prerequisite: SPM 2000; 3 or 4HH - SPM majors only.

SPM 4905 Variable Topics in Sport Management 1-3 Credits
Grading Scheme: Letter Grade
Offered upon request to meet special interests that not adequately provided in other courses.
Prerequisite: department permission.

SPM 4941C Internship in Sport Management 1-15 Credits
Grading Scheme: S/U
Internship with a public or private enterprise in sport management. (S-U)

SPM 4948 Practicum in Sport Management 1-3 Credits
Grading Scheme: S/U
Practical experience in sport management. May include a senior thesis with oral defense.
Prerequisite: department permission.

Turkish | European Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
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Courses

TUR 1130 Beginning Turkish 1 5 Credits
Grading Scheme: Letter Grade
This course and its sequel, TUR 1131, constitute the introductory sequence in Turkish.

TUR 1131 Beginning Turkish 2 5 Credits
Grading Scheme: Letter Grade
Second semester of the introductory sequence in Turkish.
Prerequisite: TUR 1130 with minimum grade of C.

TUR 2220 Intermediate Turkish 1 4 Credits
Grading Scheme: Letter Grade
Intermediate study of speaking, reading, writing and listening comprehension skills with new vocabulary and grammar.
Prerequisite: TUR 1131 or placement test.

TUR 2221 Intermediate Turkish 2 4 Credits
Grading Scheme: Letter Grade
Improves speaking, reading, writing and listening skills by building upon language principles introduced in TUR 2220.
Prerequisite: TUR 2220 or placement test.

Urban and Regional Planning

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Courses

DCP 4000 Overview of Historic Preservation 3 Credits
Grading Scheme: Letter Grade
Overview of historic preservation and its relationship to historic communities. The course covers terminology, theory, legal, design, social issues and community assessments.
Prerequisite: junior standing or higher.

URP 3001 Cities of the World 3 Credits
Grading Scheme: Letter Grade
Comparative case studies of contemporary cities in the U.S. and a series of foreign countries, both industrialized and developing. Special consideration is given to energy consumption. (S and N)
Attributes: General Education - International, General Education - Social Science

URP 4000 Preview of Urban and Regional Planning 3 Credits
Grading Scheme: Letter Grade
An overview of the comprehensive planning process or students who may be considering a career in urban and regional planning or who may be pursuing studies where some knowledge of the planning process is desirable. (H)
Attributes: General Education - Humanities

URP 4230 3D Modeling, Visualization, and Simulation 3 Credits
Grading Scheme: Letter Grade
Introduces a variety of methods and techniques to interactively model and visualize physical urban environments in two, three, and four dimensions through a hands-on approach using computer software.
Prerequisite: DCP 2002 or instructor permission.

URP 4273 Survey of Planning Information Systems 3 Credits
Grading Scheme: Letter Grade
Introduces concepts and theories associated with Geographic Information Systems (GIS) as related to urban and environmental planning. Lectures, class assignments and homework assignments are required.

URP 4283 Automation for Geospatial Modeling and Analysis 3 Credits
Grading Scheme: Letter Grade
Covers methods and techniques for automating geospatial modeling and analysis for planning and built environment by using visual models, computer programming, and custom-built applications and tools that utilize Geographic Information Systems (GIS) technology in the context of planning information systems.
Prerequisite: junior standing or higher.

URP 4640 Sustainable Urbanism in Europe 3 Credits
Grading Scheme: Letter Grade
Explores the diverse urban places that make up modern Europe, its historic development since the pre-industrial city, challenges and accomplishments of urbanization in Europe in recent decades and current accomplishments in achieving sustainable development.
Prerequisite: junior standing.

URP 4740 Housing and Urban Development 3 Credits
Grading Scheme: Letter Grade
Concepts and theories about the economics of the housing market, land development and home building process, and the growth of cities.

URP 4882 Defensible Space and CPTED in Urban Design 3 Credits
Grading Scheme: Letter Grade
Explore the history, theory, application and possibilities associated with crime prevention planning. Course investigates theories and strategies in the planner's toolkit and how police, planning and other agencies interact to implement them. The course focuses on real-world applications and students will visit sites that offer teaching and research opportunities.

URP 4905 Special Studies 1-3 Credits
Grading Scheme: Letter Grade
Variable topics course of lecture, studio and seminar that explores current issues in urban planning, from geographic information systems to transportation planning.

URP 4942 Community Service 3 Credits
Grading Scheme: S/U
Provides an opportunity to work directly with a community service agency. Public sector agencies, such as a city or county office and nonprofit organizations, qualify as community service agencies. In lieu of meeting in a classroom, students will be placed in a community service agency and will work as volunteers for a minimum of 60 hours during the academic semester.
Prerequisite: URP 3001 or URP 4000.

Veterinary Medical Sciences

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Courses

VME 3001 The Dog 3 Credits
Grading Scheme: Letter Grade
Designed for students planning careers in veterinary medicine and veterinary technical programs. Students who want to learn more about dogs will be introduced to a number of topics, including evolution, domestication, anatomy, role in society, physiology, behavior and health of the dog.
Prerequisite: BSC 2010/BSC 2010L and BSC 2011/BSC 2011L; six credits from: AGR 3303, CHM 2045/CHM 2045L, CHM 2046/CHM 2046L, MAC 2311, MCB 3020, PHY 2053, PHY 2054, or STA 2023.

VME 4012 Aquatic Animal Conservation Issues 3 Credits
Grading Scheme: Letter Grade
Controversial conservation issues surrounding aquatic species, from invertebrates to marine mammals.
Prerequisite: two courses beyond basic biology in anatomy, behavior, ecology, physiology, or zoology.

VME 4013 Aquatic Wildlife Health Issues 3 Credits
Grading Scheme: Letter Grade
Introduces the natural history, anatomy, physiology, behavior and health issues of aquatic wildlife: marine mammals, sea turtles, crocodiles and some fish and invertebrates.
Prerequisite: BSC 2010 and BSC 2011 and six credits with course prefixes of ANS, PCB, WIS or ZOO with minimum grades of C, or instructor permission.

VME 4016 Manatee Health and Conservation 3 Credits
Grading Scheme: Letter Grade
Introduces undergraduate students to manatee natural history, anatomy, physiology, behavior, conservation and health issues. Students will be exposed to current experts in these fields, be able to name and to describe common health and mortality issues and be able to explain current management strategies.
Prerequisite: BSC 2010 and BSC 2011 and six credits with course prefixes of ANS, PCB, WIS or ZOO with minimum grades of C, or instructor permission.

VME 4103 Livestock Health/Disease Prevention 2 Credits
Grading Scheme: Letter Grade
The principal diseases of livestock and practical methods for their prevention and control.
Prerequisite: instructor permission.

VME 4906 Problems in Veterinary Science 1-3 Credits
Grading Scheme: Letter Grade
Study, research and investigation of an approved problem in veterinary medicine.
Prerequisite: instructor permission.

Vietnamese | Languages, Literatures, and Cultures

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Courses

VTN 1130 Beginning Vietnamese 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

VTN 1131 Beginning Vietnamese 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: VTN 1130 with minimum grade of C or S, or the equivalent.

VTN 2220 Intermediate Vietnamese 1 4 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: VTN 1131 with minimum grade of C or S, or the equivalent.

VTN 2221 Intermediate Vietnamese 2 4 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: VTN 2220 with minimum grade of C or S, or the equivalent.

VTN 2340 Vietnamese for Heritage Learners 1 4 Credits
Grading Scheme: Letter Grade
For those with significant speaking and listening skills, but limited reading and writing skills. Emphasis on developing latter two skills.
Prerequisite: instructor permission.

VTN 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For independent work not offered in another course. Available only by special arrangement.

VTN 4930 Special Topics in Vietnamese Studies 3 Credits
Grading Scheme: Letter Grade
Variable topics dealing with specific issues in Vietnamese studies. Available only by special arrangement.

VTT 3500 Vietnamese Culture 3 Credits
Grading Scheme: Letter Grade
Overview of Vietnamese culture, language and history. Focuses on Vietnamese cultural norms, attitudes, values and culture through an examination of history, religious practices, language, literature, family structures, cuisine, daily life and the arts. (H and N)
Prerequisite: Any Asia-related ASH, CHI, CHT, JPN, JPT, REL, or VTN course.
Attributes: General Education - Humanities, General Education - International

Wildlife Ecology and Conservation

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Courses

WIS 2040 Wildlife Issues in a Changing World 3 Credits
Grading Scheme: Letter Grade
The biological and ecological basis of wildlife issues and the pathways humans use to resolve these issues. Topics include major animal phyla; evolutionary history of vertebrates; state, federal and international agencies that manage wildlife worldwide; and the impact of human activities on wildlife. (B)
Attributes: General Education - Biological Science

WIS 2552 Biodiversity Conservation: Global Perspectives 3 Credits
Grading Scheme: Letter Grade
The relationship between humans and the global biotic environment that supports them. This course explores human patterns of resource use and population biology that determine the status of the earth's biodiversity resources. Helps students understand how today's human society affects global life support systems, and how individuals can make lifetime contributions to environmental solutions. (B and N)
Attributes: General Education - Biological Science, General Education - International

WIS 2920 Wildlife Colloquium 1 Credit
Grading Scheme: Letter Grade
Wildlife ecology and conservation as a major and career.
Prerequisite: majors/minors only.

WIS 3401 Wildlife Ecology and Management 3 Credits
Grading Scheme: Letter Grade
Wildlife as a natural resource with emphasis on principles of conservation, ecology and management.
Prerequisite: BSC 2011 and BSC 2011L.

WIS 3402 Wildlife of Florida 3 Credits
Grading Scheme: Letter Grade
The diversity of wildlife species in Florida with emphasis on amphibians, reptiles, mammals and birds.

WIS 3402L Wildlife of Florida Laboratory 1 Credit
Grading Scheme: Letter Grade
Laboratory exploring the diversity of wildlife in Florida's ecosystems with emphasis on field identification, natural history and ecology of birds, mammals, amphibians and reptiles.

WIS 3404 Natural Resource Ecology 3 Credits
Grading Scheme: Letter Grade
Application of ecological principles and natural history information to conserve and sustainably manage natural resources with an emphasis on animals and plants.
Prerequisite: BSC 2011 or eqivalent.

WIS 3434 Tropical Wildlife 3 Credits
Grading Scheme: Letter Grade
An interdisciplinary course that teaches the ecology of animals and the socio-economics of wildlife use. The first part of the course deals with the biology of tropical wildlife and the second with the historical, economic and political aspects of the use and management of tropical wildlife.
Prerequisite: BSC 2011/BSC 2011L; WIE major; junior standing.

WIS 3553C Introduction to Conservation Genetics 4 Credits
Grading Scheme: Letter Grade
Types of molecular polymorphisms found in nature, including how genetic information is organized, what evolutionary and demographic forces act to shape genetic polymorphisms, and how and why genetics are useful in population conservation and management.
Prerequisite: STA 2023 and (FOR 3153C or PCB 3601C or PCB 4044C).

WIS 4203C Landscape Ecology and Conservation 3 Credits
Grading Scheme: Letter Grade
Central constructs and methods of landscape ecology are applied to wildlife ecology and conservation.
Prerequisite: STA 2023 and (FOR 3153C or PCB 3601C or PCB 4043C) and (FOR 3434C or GIS 3043 or GIS 3072C or URP 4273).

WIS 4427C Wildlife Habitat Management 3 Credits
Grading Scheme: Letter Grade
Application of land management practices and their effects on wildlife habitats in Florida.
Prerequisite: WIS 3401.

WIS 4443C Wetland Wildlife Ecology 4 Credits
Grading Scheme: Letter Grade
Ecological principles of conservation and management of wildlife in wetland environments, including a survey of the structure and function of major wetland types.
Prerequisite: WIS 3401.

WIS 4454 Ecology of Bird Introductions and Invasions 3 Credits
Grading Scheme: Letter Grade
Ecology and conservation implications of introductions and invasions of birds. The course covers the invasion pathway model as well as the four levels of factors that can influence introduction outcomes.
Prerequisite: BSC 2010 and BSC 2011.

WIS 4501 Introduction to Wildlife Population Ecology 3 Credits
Grading Scheme: Letter Grade
The dynamics and regulation of biological populations and life-history theory.
Prerequisite: PCB 3034C and WIS 3401; and FOR 3153C, PCB 3601C or PCB 4044C.

WIS 4523 Human Dimensions of Natural Resource Conservation 3 Credits
Grading Scheme: Letter Grade
Local and international models are used to provide an interdisciplinary overview of the theory and practice of conservation education, environmental communication and integrated resource management and conservation.
Prerequisite: WIS 3401 or WIS 4554.

WIS 4547C Avian Field Techniques 2 Credits
Grading Scheme: Letter Grade
Intensive advanced field experience in scientific study design and ecology of wild bird populations and communities.
Prerequisite: 1 course each in ecology and vertebrate ecology.

WIS 4554 Conservation Biology 3 Credits
Grading Scheme: Letter Grade
Overview of the major problems in conservation and of the biological principles and theories to preserve this diversity.
Prerequisite: PCB 3063 or WIS 3553C; and FOR 3153C, PCB 3034C, PCB 3601C or PCB 4044C; and WIS 3401.

WIS 4570C Wildlife Behavior and Conservation 3 Credits
Grading Scheme: Letter Grade
Concise, current, and thorough grounding to the field (theory, practice, and relevance) of animal behavior, with a strong focus on applications of wildlife behavior to achieve successful wildlife conservation gains.
Prerequisite: BSC 2010

WIS 4601C Quantitative Wildlife Ecology 3 Credits
Grading Scheme: Letter Grade
Concepts and applications of quantitative techniques in ecology and wildlife management.
Prerequisite: STA 2023 and WIS 3401.

WIS 4900 Supervised Extension Experience in Wildlife Ecology and Conservation 0-3 Credits
Grading Scheme: S/U
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation.

WIS 4905 Individual Problems 1-4 Credits
Grading Scheme: Letter Grade
Individual study of a selected topic related to wildlife ecology and conservation as contracted with the instructor at the start of the term.
Prerequisite: instructor permission.

WIS 4911 Supervised Research in Wildlife Ecology and Conservation 0-3 Credits
Grading Scheme: S/U
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application. (S-U)

WIS 4915 Honors Thesis Research in Wildlife Ecology and Conservation 0-3 Credits
Grading Scheme: S/U
Independent research in wildlife ecology and conservation leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

WIS 4934 Topics in Wildlife Ecology and Conservation 1-4 Credits
Grading Scheme: Letter Grade
Variable current issues and in-depth study in wildlife, forestry, range, recreation and fisheries issues not covered in other courses.

WIS 4941 Internship in Wildlife Ecology and Conservation 1-12 Credits
Grading Scheme: Letter Grade
Practical teaching, research, and extension experience in the field of wildlife ecology and conservation. Offered every semester.
Prerequisite: instructor permission.

WIS 4945C Wildlife Techniques 4 Credits
Grading Scheme: Letter Grade
Practical training in wildlife research techniques, including radiotelemetry, trapping methods, immobilization and marking of birds, mammals and herps.
Prerequisite: WIS 3402.

Wolof | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

WOL 1130 Beginning Wolof 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

WOL 1131 Beginning Wolof 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: WOL 1130 with minimum grade of C, or the equivalent.

WOL 2200 Intermediate Wolof 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: WOL 1131 with minimum grade of C, or the equivalent.

WOL 2201 Intermediate Wolof 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study.
Prerequisite: WOL 2200 with minimum grade of C, or the equivalent.

WOL 3410 Advanced Wolof 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: WOL 2201 with minimum grade of C, or the equivalent.

WOL 3411 Advanced Wolof 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study of the four skills with attention to more complex structures.
Prerequisite: WOL 3410 with minimum grade of C, or the equivalent.

Women's Studies

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

WST 2322 Introduction to Health Disparities 3 Credits
Grading Scheme: Letter Grade
Examination of the multifaceted issue of health disparities based upon race and ethnicity, gender, socioeconomic status, education, sexuality, disability, physical and mental health, geography and other factors. Related issues include social determinants of health, cultural competency, health literacy, advocacy, social justice and health equity. (S and D)
Attributes: General Education - Diversity, General Education - Social Science

WST 2611 Humanities Perspectives on Gender and Sexuality 3 Credits
Grading Scheme: Letter Grade
Close readings of cultural representations (in literature, the visual arts, movies, television, the Internet, etc.) facilitates the understanding of intersecting categories of identity such as gender, sexuality, class and race. Examines how such categories operate in everything from novels to YouTube to the evening news. (H and D) (WR)
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 6000 Words of Writing Requirement

WST 2612 Social Science Perspectives on Gender and Sexuality 3 Credits
Grading Scheme: Letter Grade
The social construction of gender, sexuality, race, class and other identity categories. Readings focus on individuals, families and cultural groups, mainly in the U.S. but with attention to other nations. Subjects as intimate as the body and violence and as pervasive as politics and the law are included. The course emphasizes differences in daily life experiences of health care, education, sports and religion. Finally, it examines the potential of movements for social change. (S and D) (WR)
Attributes: General Education - Diversity, General Education - Social Science, Satisfies 4000 Words of Writing Requirement

WST 3015 Interdisciplinary Perspectives in Women's Studies 3 Credits
Grading Scheme: Letter Grade
Drawing on materials and methodologies from a variety of disciplines, this class explores the diverse experiences of women in past eras and in the present, and in the U.S. and abroad. Required for the women's studies major and minor. (H or S, and D) (WR)
Attributes: General Education - Diversity, General Education - Humanities, General Education - Social Science, Satisfies 4000 Words of Writing Requirement

WST 3323 Gender, Bodies, and Health 3 Credits
Grading Scheme: Letter Grade
Examines how gender is "worn" on the female body. Adopting a feminist interdisciplinary approach, explores three themes: cisgender female biology in social context, bodily practices concerning food and exercise, and disease (i.e., cancer). Examines intersections of gender, race, class, and disability, and role of activism/policy changes in improving people's health.
Prerequisite: Sophomore standing.

WST 3335 Women and Gender Analysis through American Film: 1950-Present 3 Credits
Grading Scheme: Letter Grade
Traces how film and Hollywood cinema represent women, gender, and feminism over the past sixty years. Analyzes the relationship of film and the sociology and history of feminist movements. Addresses intersections of race, gender, sexual orientation, age, and class found in American cinema. (C, D, and H) (WR)
Prerequisite: Sophomore standing or instructor permission.
Attributes: General Education - Diversity, General Education - Humanities, Satisfies 2000 Words of Writing Requirement

WST 3349 Ecofeminism 3 Credits
Grading Scheme: Letter Grade
A holistic framework for understanding the connections between environmental, feminist and social justice issues. This course critically analyzes positions within ecofeminist theory. (WR)
Attributes: Satisfies 4000 Words of Writing Requirement

WST 3371 Women, Leadership & Diversity in the Global Environment 3 Credits
Grading Scheme: Letter Grade
Examines leadership concepts in general, and for women in particular. Covers leadership strategies in a historical framework, leadership dilemmas in various industries (locally and globally), and experiential and case-study based leadership.
Prerequisite: Sophomore standing or instructor permission.

WST 3415 Transnational Feminism 3 Credits
Grading Scheme: Letter Grade
Women and feminism in a transnational perspective, focusing on various theories and movements engendered by women in contemporary national contexts. The course examines development, reproductive politics and women's health. (S and N)
Attributes: General Education - International, General Education - Social Science

WST 3603 Sexualities Studies 3 Credits
Grading Scheme: Letter Grade
The interdisciplinary study of sexualities covering diverse theories of sexualities and desire, and how these theories are socially constructed and regulated. Central to the class are the connections between sexualities and other social locators such as race, ethnicity, gender, social class, age and ability or disability.
Prerequisite: sophomore standing or instructor permission.

WST 3610 Gender, Race and Science 3 Credits
Grading Scheme: Letter Grade
Feminist theories of nature, science and technology, and how gender and race are critical to the origins of science, the making of scientists and the politics of contemporary practice.

WST 3663 Gender and Food Politics 3 Credits
Grading Scheme: Letter Grade
Survey of the gendered history of food and foodways from the early 17th century to the modern period; may be taught with a service learning component.
Prerequisite: Sophomore standing.

WST 3703 History of American Medicine: Race, Class, Gender, and Science 3 Credits
Grading Scheme: Letter Grade
Overview of the development of the medical profession in the US with attention to ways that class, gender, and race have shaped the idea of "scientific medicine.
Prerequisite: Sophomore standing or departmental permission.

WST 3930 Special Interdisciplinary Topics in Women's Studies 1-4 Credits
Grading Scheme: Letter Grade
Variable topics from different fields of study in gender/ women's studies based on a feminist approach. Topics can include gender issues in education, women's autobiography and women's health issues.

WST 4326 Women and Therapy 3 Credits
Grading Scheme: Letter Grade
Survey of the development of mental health interventions from the 19th century to the present, with attention to women as patients, practitioners, and consumers.
Prerequisite: Any WST 3000 level course or PPE 3003 or CLP 3144

WST 4630 Gender, Culture, and Place 3 Credits
Grading Scheme: Letter Grade
How are the experiences of gender and sexuality configured by geography, location and the built environment? How do gender relations and sexual practices define and give meaning to space and place? This class explores these questions through interdisciplinary consideration of the gendered relationships that unfold in significant spaces and places in the U.S. and the world.

WST 4641 Lesbian and Gay Studies 3 Credits
Grading Scheme: Letter Grade
Overview of lesbian and gay studies, including a portrait of the field, challenges, core debates and possible future directions of such research.
Prerequisite: instructor permission.

WST 4704 Discrimination and Health 3 Credits
Grading Scheme: Letter Grade
Examines discrimination and health from a variety of perspectives. Explores links of discrimination experiences with health behaviors and outcomes, discrimination in healthcare settings, and routes to improving health at individual, group, and legislative levels. Addresses multiple forms of discrimination (e.g., race, sex, class, sexual orientation/gender identity) and their intersections.
Prerequisite: PSY 2012 or any WST course or junior standing.

WST 4905 Independent Study in Women's Studies 1-3 Credits
Grading Scheme: Letter Grade
For advanced undergraduate students who want to supplement regular courses with independent reading or research.

WST 4911 Undergraduate Research in Women's Studies 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

WST 4930 Special Topics 1-6 Credits
Grading Scheme: Letter Grade
Lectures and seminars covering selected topics of current interest in women's studies and/or gender studies.
Prerequisite: instructor permission.

WST 4935 Capstone Seminar 1-6 Credits
Grading Scheme: Letter Grade
This capstone course, required for all majors, is the culmination of the women's studies major. It explores past and present scholarship to reaffirm the interdisciplinary nature of the field and to highlight relationships among feminist theory, intellectual practice and social change. The bulk of the semester is devoted to an independent writing project on the student's selected topic.
Prerequisite: WST 3015.

WST 4940 Internship 1-3 Credits
Grading Scheme: S/U
Practical experience in the community with a local agency, group or business involved in women's issues. (S-U)
Prerequisite: instructor and program director permission.

WST 4941C Practicum in Health Disparities 3 Credits
Grading Scheme: Letter Grade
Capstone experience for seniors enrolled in the health disparities in society minor. Students are matched with preceptors from community agencies that work with underserved, disadvantaged and disenfranchised populations. Students will learn about the agency and its organizational culture while applying concepts of cultural competence, linguistic appropriateness and health disparities.
Prerequisite: WST 2322 and enrollment in health disparities minor.

WST 4956 Overseas Studies 1-15 Credits
Grading Scheme: Letter Grade
This course provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: advisor permission.

WST 4970 Women's/Gender Studies Honors Thesis 3 Credits
Grading Scheme: Letter Grade
For students pursuing an honors thesis in WST, in accordance with the protocols established by the WST and honors programs. Students design and pursue an independent research project with guidance from an advisor.
Prerequisite: WST 4935 and WST majors.

Writing Program, University

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

ENC 1101 Expository and Argumentative Writing 3 Credits
Grading Scheme: Letter Grade
The principal elements of writing clearly, efficiently and effectively. ENC 1101 also focuses on writing logical arguments, building research skills and developing critical thinking through reading, writing and discussion. (C) (WR)
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 1102 Argument and Persuasion 3 Credits
Grading Scheme: Letter Grade
Writing techniques and forms of argument in a range of disciplines. For their major writing assignment in this course, students will write an extensively researched and well-documented research paper, learning professional and academic writing conventions and developing their critical thinking skills. (C) (WR)
Prerequisite: ENC 1101.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 2305 Analytical Writing and Thinking 3 Credits
Grading Scheme: Letter Grade
Advances students critical thinking and writing skills beyond first-year composition. With wide-ranging themes in areas such as languages, political science, anthropology or biology, this course exposes students to the advanced analytical techniques and communication strategies that professors in all disciplines expect them to know. (C) (WR)
Prerequisite: ENC 1101 or ENC 1102.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 3246 Professional Communication for Engineers 3 Credits
Grading Scheme: Letter Grade
Students master a variety of communication strategies and genres of writing relevant to engineering, such as composing email, memos, letters, technical descriptions, instructions, academic research reports and professional proposals. Students also respond to complex rhetorical situations, thus preparing for work in their professional communities. (C) (WR)
Prerequisite: ENC 1101 or ENC 1102.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 3252 Writing for Strategic Communication 3 Credits
Grading Scheme: Letter Grade
Effective writing strategies for pitching, planning, and delivering content on behalf of organizations and within professional communities. Rhetorical analysis of strategic communication in content-rich marketing published via digital platforms. Intended for public relations, advertising, and telecom majors.
Prerequisite: ENC 1101 or ENC 1102.

ENC 3254 Professional Writing in the Discipline 3 Credits
Grading Scheme: Letter Grade
A communication course adjusted to a specific professional discipline, the discipline to be determined by need. Covers major elements of organizational communication with emphasis on composition of reports, proposals, letters and memos, manuals, and oral presentations. Course materials and assignments are relevant to the specific discipline. (C) (WR)
Prerequisite: ENC 1101 or ENC 1102.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 3453 Writing in the Health Professions 3 Credits
Grading Scheme: Letter Grade
Designed to help students master a variety of communication strategies and genres of writing relevant to the health professions. Students learn to compose clear messages to professionals, patients, and the public, preparing them for upper-division courses and building a foundation for work in their professional communities.
Prerequisite: ENC 1101 or ENC 1102.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 3459 Writing in the Medical Sciences 3 Credits
Grading Scheme: Letter Grade
Training in advanced literacy skills for medical practitioners, including the use of medical databases and the presentation of medical research to professional and lay audiences. Work in teams that are typical of medical practice to learn techniques for effective patient interaction. (C) (WR)
Prerequisite: ENC 1101 or ENC 1102.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 3464 Writing in the Social Sciences 3 Credits
Grading Scheme: Letter Grade
Designed to help students master a variety of communication strategies and genres of writing relevant to the social sciences. Conducting original research, students learn the relationship between clear, simple prose and thoughtful social analysis. Students write literature reviews, develop methodologies, present results, analyze data, and draft graduate or internship applications.
Prerequisite: ENC 1101 or ENC 1102.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 3465 Writing in the Law 3 Credits
Grading Scheme: Letter Grade
Designed to help students master a variety of communication strategies and genres of writing relevant to law, with special emphasis on legal reasoning and logic. Students write legal briefs, a legal memorandum, business correspondence, and law school applications and are introduced to legal research and moot court debate.
Prerequisite: ENC 1101 or ENC 1102.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 3466 Writing in the Communication Sciences 3 Credits
Grading Scheme: Letter Grade
For communication science professionals who interact with audiences that range from school counselors to caregivers and colleagues, excellent writing an essential skill. Focus is on writing in graduate school and as practitioners: research-based reports, clinical documents, and career portfolios. (C) (WR)
Prerequisite: ENC 1101 or ENC 1102.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 3483 Writing in the Physical Sciences 3 Credits
Grading Scheme: Letter Grade
Designed to improve writing skills necessary for success in the physical sciences, both in graduate school and the workplace. Investigating an area of special interest, students learn advanced library research, correct documentation, stylistic conventions for their major fields, and how to present research effectively. (C) (WR)
Prerequisite: ENC 1101 or ENC 1102.
Attributes: General Education - Composition, Satisfies 6000 Words of Writing Requirement

ENC 3934 Special Topics in Rhetoric and Writing 3 Credits
Grading Scheme: Letter Grade
Designed to advance students? ability to write in specific genres or to develop their understanding of special topics related to the field. Specific sections will be tailored to the expertise of the faculty members teaching the course.
Prerequisite: ENC 1101 or ENC 1102.

ENC 4458 Writing the Science Thesis 3 Credits
Grading Scheme: Letter Grade
In this course, students learn to write an academic thesis and a publishable version of their research, preparing them for both academic and scientific audiences. Assignments include a literature review, thesis, research report, and conference poster. Frequent peer review prepares students for collaboration, a necessary skill in contemporary science.
Prerequisite: ENC 1102 with minimum grade of C.

ENC 4493 Peer Tutoring in Rhetoric and Writing 2 Credits
Grading Scheme: Letter Grade
Examines the theories and best practices used by writing tutors with the goal of preparing to be peer writing tutors. Includes preparation on conducting needs assessments, prioritizing advice, and giving effective writing feedback. Observe experienced tutors and be guided through the first tutorial sessions.
Prerequisite: ENC 1102.

ENC 4905 Directed Independent Study in Rhetoric and Writing 1-3 Credits
Grading Scheme: Letter Grade
Designed for the advanced student who wants to pursue in depth an area of study not provided in regularly offered courses. Independent study can involve independent reading or projects under faculty guidance.
Prerequisite: Permission of instructor.

ENC 4930 Special Topics in Rhetoric and Writing 1-3 Credits
Grading Scheme: Letter Grade
Designed to advance students' ability to write in specific genres and to develop their understanding of special topics related to the field. Specific sections will be tailored to the expertise of the faculty members teaching the course.
Prerequisite: completed 60 credits.

ENG 1001 Modes of Inquiry 3 Credits
Grading Scheme: Letter Grade
Strategies for dealing successfully with various media types common to the college experience (web-based, film, traditional readings, etc.). Through reading, writing, research and small group discussion, students will develop and refine reading, writing and speaking skills. Modes of Inquiry employ a cross-discipline approach so that student encounter reading and writing as it happens in the humanities, social sciences and business. Course also utilizes the electronic classroom, giving students the opportunity to polish computer skills and take advantage of online resources. The critical thinking, reading and writing skills learned in this course enhance the communications skills needed for a successful college career. (WR)
Attributes: Satisfies 2000 Words of Writing Requirement

RED 1343 Reading and Writing Content Area 1-7 Credits
Grading Scheme: Letter Grade
Covers the fundamentals of beginning college writing and critical reading skills.

Xhosa | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

XHO 1130 Beginning Xhosa 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

XHO 1131 Beginning Xhosa 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: XHO 1130 with minimum grade of C, or the equivalent.

XHO 2200 Intermediate Xhosa 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: XHO 1131 with minimum grade of C, or the equivalent

XHO 2201 Intermediate Xhosa 2 3 Credits
Grading Scheme: Letter Grade
Continuation of intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: XHO 2200 with minimum grade of C, or the equivalent.

XHO 3410 Advanced Xhosa 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: XHO 2201 with minimum grade of C, or the equivalent.

XHO 3411 Advanced Xhosa 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study.
Prerequisite: 3410 with minimum grade of C, or the equivalent.

Yoruba | Languages, Literatures, and Cultures

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

SSA 3730 Language in African Society 3 Credits
Grading Scheme: Letter Grade
The role of language in the development of African societies. Language and nation building. (S and N)
Attributes: General Education - International, General Education - Social Science

YOR 1130 Beginning Yoruba 1 5 Credits
Grading Scheme: Letter Grade
Beginning study covering four skills: listening, speaking, reading and writing.

YOR 1131 Beginning Yoruba 2 5 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: YOR 1130 with minimum grade of C or S, or the equivalent.

YOR 2200 Intermediate Yoruba 1 3 Credits
Grading Scheme: Letter Grade
Intermediate study of the four skills with new vocabulary and grammar.
Prerequisite: YOR 1131 with minimum grade of C or S, or the equivalent.

YOR 2201 Intermediate Yoruba 2 3 Credits
Grading Scheme: Letter Grade
Continued study of the four skills with additional vocabulary and grammar.
Prerequisite: YOR 2200 with minimum grade of C or S, or the equivalent.

YOR 3410 Advanced Yoruba 1 3 Credits
Grading Scheme: Letter Grade
Advanced study of the four skills with attention to more complex structures.
Prerequisite: YOR 2201 with minimum grade of C, or the equivalent.

YOR 3411 Advanced Yoruba 2 3 Credits
Grading Scheme: Letter Grade
Continuation of advanced study of the four skills with attention to more complex structures.
Prerequisite: YOR 3410 with minimum grade of C, or the equivalent.

YOR 4502 Yoruba Oral Literature 3 Credits
Grading Scheme: Letter Grade
Overview of the genres of Yoruban oral literature, stressing the importance of the spoken word in Yoruban culture and the training of Yoruban verbal artists and their place in Yoruban society.
Prerequisite: YOR 1131 or instructor permission;
Corequisite: YOR 2200, YOR 2201, or instructor permission.

YOR 4905 Individual Study 1-5 Credits
Grading Scheme: Letter Grade
For those who seek independent work not offered in another course.
Prerequisite: instructor permission.

YOT 3500 Yoruba Diaspora in the New World 3 Credits
Grading Scheme: Letter Grade
Introduction to the scope and importance of Yoruban culture in the New World and its role and significance in the resilience of African cultures in North America, South America and the Caribbean. (WR)
Prerequisite: HUM 2420, HUM 2424, or instructor permission.
Attributes: Satisfies 6000 Words of Writing Requirement

YRW 4130 Readings in Yoruba Literature 3 Credits
Grading Scheme: Letter Grade
Reading skills and the analysis of literature in the original language.
Prerequisite: YOR 3411 or the equivalent.

Zoology

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

AST 2037 Life in the Universe 3 Credits
Grading Scheme: Letter Grade
The origin of life on Earth and the possibility of life elsewhere. A multidisciplinary approach is followed. Conditions for life to form and the likelihood that such conditions may exist elsewhere in the universe are discussed. Also considered are schemes proposed for the search for extraterrestrial intelligence (SETI). (P)
Attributes: General Education - Physical Science

BSC 3402 Theory and Practice in the Biological Sciences 2 Credits
Grading Scheme: Letter Grade
Presents the scientific method, in its many formulations, from historical, philosophical and sociological perspectives. Explores generation and presentation of data, formulation of hypotheses and theories and dissemination of results. Also examines the ethical implication of biological research.

GLY 3603C Paleontology 4 Credits
Grading Scheme: Letter Grade
Investigation of the history of life on earth, including aspects of invertebrate and vertebrate paleontology, micropaleontology and paleobotany.
Prerequisite: refer to the department.

PCB 3063 Genetics 4 Credits
Grading Scheme: Letter Grade
The fundamental properties of inheritance in eukaryotic organisms emphasizing examples in man. Basic concepts are developed for the nature, organization, transmission, expression, recombination and function of genetic materials and principles are derived for genetically characterizing populations.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C and general chemistry.

PCB 3713C Cellular and Systems Physiology 4 Credits
Grading Scheme: Letter Grade
How cells, organs and higher level systems are integrated and coordinated in the functions of humans and other animals. Emphasizes the use of model organisms, mathematical models and the physical sciences to understand the mechanistic basis of normal physiology and dysfunction.
Prerequisite: BSC 2010 and CHM 2046, CHM 2047, CHM 2051, or CHM 2096 and PHY 2048 or PHY 2060, all with minimum grades of C;
Corequisite: PHY 2049 or PHY 2061.

PCB 4043C General Ecology 4 Credits
Grading Scheme: Letter Grade
Ecological processes and organization in terrestrial and aquatic habitats. Laboratory and field exercises emphasize techniques of ecological analysis.
Prerequisite: BSC 2011 and 2011L, or equivalent, with minimum grades of C.

PCB 4674 Evolution 4 Credits
Grading Scheme: Letter Grade
Processes and mechanisms of evolution, including population genetics, speciation, patterns of evolution and molecular evolution.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C;
Corequisite: one semester of calculus; PCB 3063 recommended.

PCB 4712 Comparative Biomechanics 3 Credits
Grading Scheme: Letter Grade
Reviews physical principles governing the form and function of organisms.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C; PHY 2048, PHY 2053L, PCB 4674 and ZOO 3713C.

PCB 4723C Physiology and Molecular Biology of Animals 5 Credits
Grading Scheme: Letter Grade
Discusses the processes and mechanisms of maintenance, activity and integration in animals with emphasis on vertebrates. Laboratory experience in quantitative methods and techniques of physiological investigation.
Prerequisite: BSC 2011, and CHM 2046 or CHM 2047. Recommended: PHY 2053 and PHY 2054, or PHY 2060 and PHY 2061, PCB 3063, and PCB 4674; all with a minimum grade of C or above.

ZOO 3513C Animal Behavior 4 Credits
Grading Scheme: Letter Grade
The causes, origins and evolution of animal behavior emphasizing field observations and experiments on the behavior of a variety of animal groups.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C, and PCB 4674.

ZOO 3603C Evolutionary Developmental Biology 4 Credits
Grading Scheme: Letter Grade
Analysis of embryonic development, underlying genetic mechanisms and how these processes have driven the evolutionary diversification of animal body plans.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C.

ZOO 3713C Functional Vertebrate Anatomy 4 Credits
Grading Scheme: Letter Grade
The form and function of chordates accompanied by laboratory work dealing with a selected series of chordates.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C.

ZOO 4205C Invertebrate Biodiversity 4 Credits
Grading Scheme: Letter Grade
Comparative biology of invertebrates, emphasizing morphology, evolution, ecology and life history.
Prerequisite: BSC 2011 and BSC 2011L with minimum grades of C.

ZOO 4307C Vertebrate Biodiversity 4 Credits
Grading Scheme: Letter Grade
Comparative biology of vertebrates, emphasizing morphology, evolution, ecology and behavior.
Prerequisite: BSC 2011 and (BSC 2011L or ISC 2401L) with minimum grades of C.

ZOO 4403C Marine Biology 4 Credits
Grading Scheme: Letter Grade
Survey of major marine taxa, systematics of local marine fauna and flora, with familiarization of the marine environment. Laboratory emphasizes field work and independent projects.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C.

ZOO 4472C Avian Biology 4 Credits
Grading Scheme: Letter Grade
The basic biological characteristics of birds, which, as exceptionally unique flying vertebrates, are confronted with a spectrum of problems in terms of anatomy, physiology, behavior, migration and population ecology.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C, and PCB 4674 (recommended).

ZOO 4905 Individual Studies in Zoology 1-4 Credits
Grading Scheme: Letter Grade
Qualified students and the instructor concerned may choose a particular topic or problem for study.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C, and instructor permission.

ZOO 4911 Undergraduate Research in Zoology 0-3 Credits
Grading Scheme: Letter Grade
Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

ZOO 4926 Special Topics in Zoology 1-4 Credits
Grading Scheme: Letter Grade
Lectures, conferences or laboratory sessions covering selected topics of current interest in zoology.
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C, and instructor permission.

ZOO 4940 Practical Experience in Teaching Zoology 2 Credits
Grading Scheme: S/U
Participation in teaching approved zoology courses with practical experience in instructional procedures, testing and grading, course and laboratory preparation and laboratory assistance. Cannot be used to satisfy minimum hour requirement for zoology major. (S-U)
Prerequisite: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C, one zoology laboratory-based course, senior status and instructor permission.

ZOO 4956 Overseas Studies 1-18 Credits
Grading Scheme: Letter Grade
Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.
Prerequisite: BSC 2011 and BSC 2011L with minimum grades of C and undergraduate advisor permission.

PREVIOUS CATALOGS

Each catalog remains in effect for an academic year, from the beginning of Summer B, late June, through the end of the following Summer A term the following June. The catalog is published for the new academic year each May.

- 2018-19 Undergraduate Catalog (https://catalog.ufl.edu/UGRD/previous-catalogs/2018-2019/UGRD)
- 2017-18 Undergraduate Catalog (https://catalog.ufl.edu/ugrad/1718)
- 2016-17 Undergraduate Catalog (https://catalog.ufl.edu/ugrad/1617)
- 2015-16 Undergraduate Catalog (https://catalog.ufl.edu/ugrad/1516)
- 2014-15 Undergraduate Catalog (https://catalog.ufl.edu/ugrad/1415)
- 2013-14 Undergraduate Catalog (https://catalog.ufl.edu/ugrad/1314)
- 2012-13 Undergraduate Catalog (https://catalog.ufl.edu/ugrad/1213)
- 2011-12 Undergraduate Catalog (https://catalog.ufl.edu/ugrad/1112)
- 2010-11 Undergraduate Catalog (http://www.registrar.ufl.edu/catalog1011)
- 2009-10 Undergraduate Catalog (http://www.registrar.ufl.edu/catalog0910)
- 2008-09 Undergraduate Catalog (http://www.registrar.ufl.edu/catalog0809)
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- 2006-07 Undergraduate Catalog (http://www.registrar.ufl.edu/catalog0607)
- 2005-06 Undergraduate Catalog (http://www.registrar.ufl.edu/catalog0506)
- 2004-05 Undergraduate Catalog (http://www.registrar.ufl.edu/catalogarchive/0405catalog)
- 2003-04 Undergraduate Catalog (http://www.registrar.ufl.edu/catalogarchive/03-04-catalog)
- 2002-03 Undergraduate Catalog (http://www.registrar.ufl.edu/catalogarchive/02-03-catalog)
- 2001-02 Undergraduate Catalog (http://www.registrar.ufl.edu/catalogarchive/01-02-catalog)
- 2000-01 Undergraduate Catalog (http://www.registrar.ufl.edu/catalogarchive/00-01-catalog)
- 1999-00 Undergraduate Catalog (http://www.registrar.ufl.edu/catalogarchive/99-00-catalog)
- 1905-1906 to 1998-1999 (http://ufdc.ufl.edu/UF00075594/00001/allvolumes)

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