

# 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 (<http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/>)
- **Degree:** Bachelor of Science in Forest Resources and Conservation
- **Specializations:** Environmental Pre-Law ([http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC\\_BSF/FRC\\_BSF01/](http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC_BSF/FRC_BSF01/)) | Forest Business Management | ([http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC\\_BSF/FRC\\_BSF02/](http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC_BSF/FRC_BSF02/)) Forest Resource Management ([http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC\\_BSF/FRC\\_BSF04/](http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC_BSF/FRC_BSF04/)) | Protected Areas Management ([http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC\\_BSF/FRC\\_BSF05/](http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC_BSF/FRC_BSF05/)) | Recreation Resources Management ([http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC\\_BSF/FRC\\_BSF06/](http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC_BSF/FRC_BSF06/)) | Urban Forestry (p. 1) | Watershed Science and Management ([http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC\\_BSF/FRC\\_BSF08/](http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/FRC_BSF/FRC_BSF08/))
- **Credits for Degree:** 120
- **Contact:** Email ([khaselier@ufl.edu?Subject=Forest%20Resources%20and%20Conservation%20Major](mailto:khaselier@ufl.edu?Subject=Forest%20Resources%20and%20Conservation%20Major))
- **More Info**

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

## School Information

The School of Forest Resources & Conservation is a unit within the Institute of Food and Agricultural Sciences (IFAS) and the College of Agricultural and Life Sciences (CALs). The school is home to three distinct yet integrated program areas: Fisheries and Aquatic Sciences (<http://sfrc.ufl.edu/fish/>), Forest Resources and Conservation (<http://sfrc.ufl.edu/forest/>), and Geomatics (<http://sfrc.ufl.edu/geomatics/>). The school's faculty, staff, and students conduct research, teaching, and extension that cuts across a wide range of environments and disciplines. Website (<http://sfrc.ufl.edu/>)

## CONTACT

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GAINESVILLE FL 32611-0410  
Map (<http://campusmap.ufl.edu/#/index/0832>)

## Curriculum

- Combination Degrees
- Fisheries and Aquatic Sciences Minor
- Forest Resources and Conservation
- Forest Resources and Conservation Minor
- Geomatics

- Geomatics Certificate
- Mapping with Small Unmanned Aerial Systems Certificate
- Natural Resource Conservation

## Related Programs

- Natural Resource Conservation

## 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.

## 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

Critical Tracking records each student's progress in courses that are required for progress toward 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 upper division GPA required
- 2.0 UF GPA required

## Semester 6

- Complete 2 of the remaining required major courses: FNR 3131C, FOR 3200C, FNR 3410C, FOR 3202, FOR 3153C, FOR 3162C, FNR 4660, FOR 4020, FNR 4343C, FNR 4623C, FOR 3434C, FOR 3214
- 2.0 upper division GPA required
- 2.0 UF GPA required

## Semester 7

- Complete 3 additional remaining required major courses: FNR 3131C, FOR 3200C, FNR 3410C, FOR 3202, FOR 3153C, FOR 3162C, FNR 4660, FOR 4020, FNR 4343C, FNR 4623C, FOR 3434C, FOR 3214
- 2.0 upper division GPA required
- 2.0 UF GPA required

## Semester 8

- Complete all remaining required major courses
- 2.0 upper division GPA required
- 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
<b>Semester One</b>		
Select one:		3
CHM 1030	Basic Chemistry Concepts and Applications 1 ( <b>Critical Tracking</b> ; Gen Ed Biological and Physical Sciences)	
CHM 2045	General Chemistry 1 ( <b>Critical Tracking</b> ; State Core Gen Ed Biological and Physical Sciences)	
FOR 2662	Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course)	3
Quest 1 (Gen Ed Humanities)		3
State Core Gen Ed Composition ( <a href="http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext">http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext</a> ); Writing Requirement		3
Elective		3
	Credits	15
<b>Semester Two</b>		
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 ( <b>Critical Tracking</b> ; State Core Gen Ed Biological and Physical Sciences)	4
MAC 1105	Basic College Algebra ( <b>Critical Tracking</b> ; or higher; State Core Gen Ed Mathematics)	3
FAS 2024	Sustainable Fisheries (recommended elective)	3
State Core Gen Ed Social and Behavioral Sciences ( <a href="http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext">http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext</a> )		3
Elective		3
	Credits	16
<b>Semester Three</b>		
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences ( <b>Critical Tracking</b> ; Writing Requirement) <sup>1</sup>	3
STA 2023	Introduction to Statistics 1 ( <b>Critical Tracking</b> ; Gen Ed Mathematics)	3
FOR 2662	Forests for the Future (recommended, if not already taken) <sup>2</sup>	3
Gen Ed Composition		3
Elective		2
	Credits	14
<b>Semester Four</b>		
Select one:		3-4
AEB 2014	Economic Issues, Food and You ( <b>Critical Tracking</b> )	
ECO 2013	Principles of Macroeconomics ( <b>Critical Tracking</b> )	
ECO 2023	Principles of Microeconomics ( <b>Critical Tracking</b> ; Gen Ed Social and Behavioral Sciences)	

Select one:		3
AEC 3030C	Effective Oral Communication ( <b>Critical Tracking</b> )	
SPC 2608	Introduction to Public Speaking ( <b>Critical Tracking</b> )	
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 ( <a href="http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext">http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext</a> )		3
Credits		15-16
<b>Summer After Semester Four</b>		
FOR 3200C	Foundations of Natural Resources and Conservation ( <b>Critical Tracking</b> ; Summer B only)	3
FOR 3434C	Forest Resources Information Systems ( <b>Critical Tracking</b> ; Summer B only)	3
Credits		6
<b>Semester Five</b>		
FNR 3131C	Dendrology/Forest Plants ( <b>Critical Tracking</b> )	3
FNR 3410C	Natural Resource Sampling ( <b>Critical Tracking</b> )	3
FOR 3153C	Forest Ecology ( <b>Critical Tracking</b> )	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
<b>Semester Six</b>		
FOR 3162C	Silviculture ( <b>Critical Tracking</b> )	4
FOR 3202	Society and Natural Resources ( <b>Critical Tracking</b> )	3
FOR 3342C	Tree Biology	3
ORH 4242C	Arboriculture	4
Credits		14
<b>Semester Seven</b>		
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 ( <b>Critical Tracking</b> )	3
FOR 4020	Seminar in Contemporary Issues in Forest Resources and Conservation ( <b>Critical Tracking</b> )	1
WIS 3401	Wildlife Ecology and Management	3
Directed elective		2
Social dimensions elective		2
Credits		14
<b>Semester Eight</b>		
FOR 3214	Fire Ecology and Management ( <b>Critical Tracking</b> )	2
FOR 3214L	Fire Ecology and Management Laboratory (optional)	0-1
FOR 4090C	Urban Forestry	3
FNR 4343C	Forest Water Resources ( <b>Critical Tracking</b> )	3
FNR 4623C	Integrated Natural Resource Management ( <b>Critical Tracking</b> )	3
FOR 4624C	Forest Health Management	3
Credits		14-15
Total Credits		120

<sup>1</sup> Can substitute ENC 2210 or ENC 3254.

<sup>2</sup> 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%20Resources%20and%20Conservation%20Major](mailto:khaselier@ufl.edu?Subject=Forest%20Resources%20and%20Conservation%20Major)) 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

- Demonstrate competency in biology/ecology, quantification, policy/administration and management of forest and related natural resources.
- Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

#### Critical Thinking

- Solve novel problems in forest and natural resource management.

#### Communication

- 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