AGRICULTURAL EDUCATION

With a focus on connecting people with agriculture and natural resources, 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, and/or media experiences.

About this Program

- **College:** Agricultural and Life Sciences (https://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/)
- **Degree:** Bachelor of Science
- **Specializations:** Agricultural Education (p. 1) | Communication and Leadership Development (https://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/AEC_BS_UFO/AEC_BS02_UFO/)
- **Credits for Degree:** 120
- **Contact:** 1.855.99GATOR

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

Department Information

The UF/IFAS Department of Agricultural Education and Communication is a group of faculty, staff and students committed to connecting people with agriculture and natural resources through agricultural communication, education, leadership development and Extension education.
More Info (https://aec.ifas.ufl.edu/)

CONTACT

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Map (http://campusmap.ufl.edu/#/index/0012)

Curriculum

- Agricultural and Natural Resource Communication Minor
- Agricultural and Natural Resource Communication Minor UF Online
- Agricultural Curriculum and Development Minor
- Agricultural Curriculum and Development Minor UF Online
- Combination Degrees
- Extension Education Minor
- Extension Education Minor UF Online
- Leadership Minor

Agricultural Education

The Agricultural Education specialization prepares students for a variety of rewarding careers in teaching. This includes teaching agriculture and natural resources in middle schools and high schools, as well as educator positions in agency, community, and non-profit settings.

Students who complete the program of study for this specialization are prepared to meet the Florida Department of Education's requirements for agriculture teacher certification, and they also possess the "people skills" sought by employers throughout the agriculture industry and in other public and private sectors.

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 agricultural education specialization and, during their first semester, attain a passing score on the general knowledge portion of the FTCE (or have met the requirement through alternative assessment). 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, FL and through UF Online.

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 (https://cpm.flvc.org/advance-search/) 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 2110 (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 lower division critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete one of the remaining upper division critical-tracking courses
- 2.0 upper division GPA required
- 2.0 UF GPA required

Semester 6

- Complete two of the remaining upper division critical-tracking courses
- 2.0 upper division GPA required
- 2.0 UF GPA required

Semester 7

- Complete three of the remaining upper division critical-tracking courses
- 2.0 upper division GPA required
- 2.0 UF GPA required

Semester 8

- Complete all critical-tracking 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
Semester One		
Select one:		3-4
AEB 2014	Current 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 Science (**Critical Tracking**; Gen Ed Biological Sciences)	
Gen Ed Biological or Physical Sciences (**Critical Tracking**; Laboratory)		
Select one:		3
EDF 2110	Human Growth and Development	
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 (https://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext)		3
Elective		2
	Credits	**15-16**
Semester Two		
Quest 1 (Gen Ed Humanities)		3
MAC 1140	Precalculus Algebra (**Critical Tracking**; State Core Gen Ed Mathematics)	3
State Core Gen Ed Humanities (https://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext)		3
Gen Ed Biological or Physical Sciences		3
Elective		3
	Credits	**15**
Semester Three		
AEC 3030C	Effective Oral Communication (**Critical Tracking**)	3
AEC 3065 or EME 2040	Issues in Agricultural and Life Sciences or Introduction to Educational Technology	3
STA 2023	Introduction to Statistics 1 (recommended; Gen Ed Mathematics)	3
Gen Ed Composition		3
Elective		3
	Credits	**15**
Semester Four		
Quest 2 (Gen Ed Physical Sciences)		3
AEC 3033C	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3
Elective		3
Gen Ed Humanities		3
State Core Gen Ed Social and Behavioral Sciences (https://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext)		3
	Credits	**15**
Semester Five		
AEB 3133	Principles of Agribusiness Management	3
AEC 4323	Development and Philosophy of Agricultural Education (**Critical Tracking**)	3
AEC 4504	Program Planning for Agricultural Education (**Critical Tracking**)	3
ANS 3006 & 3006L	Introduction to Animal Science and Introduction to Animal Science Laboratory	4
TSL 3323	ESOL and Reading for Teachers	3
	Credits	**16**
Semester Six		
AEC 4202	Curriculum Development and Assessment Techniques for Agricultural Technologies (**Critical Tracking**)	3
AEC 4228	Laboratory Practices in Teaching Agricultural Education (**Critical Tracking**)	3
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 (**Critical Tracking**)	3
Select one:		3
ENY 3005	Principles of Entomology	
IPM 3022	Fundamentals of Pest Management	

ENY 3007C	Life Science	
ENY 4161C	Insect Classification	
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 (**Critical Tracking**)	3
AEC 4942	Agricultural Education Internship (**Critical Tracking**)	9
	Credits	**12**
	Total Credits	**120-121**

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