

AGRICULTURAL EDUCATION - BS

This program prepares students to successfully work toward teacher certification, resulting in the ability to teach Agriculture, Food, and Natural Resources (AFNR) classes in a secondary school setting.

The Agricultural Education curriculum includes a combination of courses in scientific agriculture and professional education that will meet requirements for employment and advanced study in careers emphasizing formal and informal programs of education. A student following this curriculum must meet the requirements of admission to the teacher education program as determined by the State of Texas. Enrollment in this program requires a passing score on the TExES 272 AFNR content exam and a full semester performing an off-campus professional teaching internship in a secondary classroom in order to graduate. After successful completion of the professional teaching semester, a student may be eligible to enter public schools as a teacher of AFNR certified by the Texas Education Agency.

In addition to teaching in a secondary agriculture program, career options may include working as an agricultural extension agent, working for a marketing agency or agricultural supply company, or working in other industries related to agricultural education.

A student majoring in agricultural education will be counseled by an advisor to ensure that the program developed with the student will satisfy his or her unique interests, needs and professional aspirations, as well as requirements for teacher certification.

For more information on this major, visit our website (<https://alec.tamu.edu/b-s-agricultural-science/>).

Program Requirements

First Year

Fall		Semester Credit Hours
AGLS 101 or AGLS 125	Modern Agricultural Systems and Renewable Natural Resources or Life Sciences Learning Community I	1
HORT 201 or SCSC 105	Horticultural Science and Practices or World Food and Fiber Crops	3
Select one of the following:		3
AGEC 105	Introduction to Agricultural Economics	
ECON 202	Principles of Economics	
ECON 203	Principles of Economics	
FINP 235	Foundations of Money Education	
Communication (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3
Mathematics (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics)		3
Semester Credit Hours		13
Spring		
ANSC 107	General Animal Science	3

ANSC 108	General Animal Science Laboratory	1
American history (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Creative arts (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)		3
Mathematics (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics)		3
General elective ¹		3

Semester Credit Hours 16

Second Year

Fall

Communication (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3
Government/Political science (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)		3
Language, philosophy and culture (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)		3
Life and physical sciences (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences)		3
Scientific agricultural elective ²		3

Semester Credit Hours 15

Spring

Select one of the following:		3
AGSC 363	Teaching Skills in Agricultural Metal Technology	
AGSC 489	Special Topics in...	
AGSM 201	Agricultural Energy and Power Systems	
AGSM 360	Occupational Safety Management	
AGSM 489	Special Topics in...	
POSC 427	Animal Waste Management	
American history (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Government/Political science (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)		3
Life and physical sciences (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences)		3
Scientific agricultural elective ²		3
Semester Credit Hours		15

Third Year

Fall

AGSC 302	Teaching School-Based Agricultural Education & Clinical Professional Experience ^{3,4,5}	4
INST 210	Understanding Special Populations ³	3
Select one of the following:		3
AGEC 314	Marketing Agricultural and Food Products	

AGEC 315	Food and Agricultural Sales	
AGEC 325	Principles of Farm and Ranch Management	
AGEC 340	Agribusiness Management	
AGSC 305	Management of Supervised Agricultural Experiences	
Plant science elective ⁶		3
Scientific agricultural elective ²		3
Semester Credit Hours		16
Spring		
AGSC 373	Managing Safety in the Agricultural Science Program ³	3
AGSC 383	Teaching Agricultural Mechanics ³	3
INST 301	Educational Psychology ³	3
Select one of the following:		3
ANSC 210	Companion Animal Science	
ANSC 302	Basic Beef Cattle Production	
ANSC 309	Applied Animal Record Keeping	
ANSC 320	Animal Nutrition and Feeding	
ANSC 326/ FSTC 326	Food Bacteriology	
ANSC 451	Current Issues in Animal Agriculture	
Life and physical sciences (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences)		3
Semester Credit Hours		15
Fourth Year		
Fall		
AGSC 402	Designing Instruction for Secondary Agricultural Science Programs ^{3,4}	3
AGSC 405	Facilitating Complete Secondary Agricultural Science Programs ^{3,4}	3
ANSC 380	Animal Science for Agricultural Science	3
Plant science elective ⁶		3
Scientific agricultural elective ²		3
Semester Credit Hours		15
Spring		
AGSC 425	Learner Centered Instruction in Agricultural Science ^{3,4}	3
AGSC 436	Professional Teaching Internship in AGSC ^{3,4}	6
AGSC 481	Seminar ³	1
AGSC 484	Field Experience ³	4
ANSC 484	Livestock Practicum	1
Semester Credit Hours		15
Total Semester Credit Hours		120

⁶ Select from ECCB 203, ECCB 301, ECCB 307, ECCB 309, ECCB 310, ECCB 312, ECCB 319, ECCB 324, ECCB 405, ECCB 408; GENE 100-499 (<https://catalog.tamu.edu/undergraduate/course-descriptions/gene/>); HORT 100-499 (<https://catalog.tamu.edu/undergraduate/course-descriptions/hort/>); RWFM 202, RWFM 302, RWFM 313, RWFM 314, RWFM 316, RWFM 317, RWFM 370; SCSC 100-499 (<https://catalog.tamu.edu/undergraduate/course-descriptions/scsc/>).

Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (<https://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) courses and 3 hours of Cultural Discourse (<https://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See an academic advisor.

¹ Select any 100-499 course not used elsewhere (except ASCC 100-499 (<https://catalog.tamu.edu/undergraduate/course-descriptions/ascc/>)).

² All scientific agricultural electives are to be selected in consultation with an academic advisor.

³ Must make a grade of C or better to receive credit.

⁴ Professional development course required for certification as a teacher of agricultural science.

⁵ Requires admission to teacher education. Consult with an advisor about specific requirements for admission to teacher education.