

# AGRICULTURAL SCIENCE - BS, TEACHING OPTION

The Agricultural Science 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. This degree plan will prepare a student to successfully work toward teacher certification, resulting in the ability to teach Agriculture, Food, and Natural Resources (AFNR) classes in a secondary school setting. 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 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 science 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. The degree requires the completion of 120 semester credit hours.

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

## Program Requirements

### First Year

Fall		Semester Credit Hours
AGLS 101	Modern Agricultural Systems and Renewable Natural Resources	1
ANSC 107 or POSC 201	General Animal Science or General Avian Science	3
Select one of the following:		3
AGEC 105	Introduction to Agricultural Economics	
ECON 202	Principles of Economics	
ECON 203	Principles of Economics	
Communication ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication</a> )		3
Mathematics ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics</a> )		3
Scientific agricultural elective <sup>1</sup>		3
<b>Semester Credit Hours</b>		<b>16</b>

### Spring

HORT 201 or SCSC 105	Horticultural Science and Practices or World Food and Fiber Crops	3
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Select one of the following:		3
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 ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> )		3
Mathematics ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics</a> )		3
General elective <sup>2</sup>		3

**Semester Credit Hours 15**

### Second Year

#### Fall

Communication ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication</a> )		3
Government/Political science ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science</a> )		3
Language, philosophy and culture ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a> )		3
Life and physical sciences ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences</a> )		3
Scientific agricultural elective <sup>1</sup>		3

**Semester Credit Hours 15**

#### Spring

American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> )		3
Creative arts ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a> )		3
Government/Political science ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science</a> )		3
Life and physical sciences ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences</a> )		3
Scientific agricultural elective <sup>1</sup>		3

**Semester Credit Hours 15**

### Third Year

#### Fall

AGSC 302	Teaching School-Based Agricultural Education & Clinical Professional Experience <sup>3,4,5</sup>	4
INST 210	Understanding Special Populations <sup>3</sup>	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	
	Plant science elective <sup>6</sup>	3
	Scientific agricultural elective <sup>1</sup>	2
<b>Semester Credit Hours</b>		<b>15</b>
<b>Spring</b>		
AGSC 373	Managing Safety in the Agricultural Science Program <sup>3</sup>	3
AGSC 383	Teaching Agricultural Mechanics <sup>3</sup>	3
ANSC 320	Animal Nutrition and Feeding	3
INST 301	Educational Psychology <sup>3</sup>	3
	Life and physical sciences ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences</a> )	3
<b>Semester Credit Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
AGSC 402	Designing Instruction for Secondary Agricultural Science Programs <sup>3,4</sup>	3
AGSC 405	Facilitating Complete Secondary Agricultural Science Programs <sup>3,4</sup>	3
ANSC 380	Animal Science for Agricultural Science	3
	Plant science elective <sup>6</sup>	3
	Scientific agricultural elective <sup>1</sup>	2
<b>Semester Credit Hours</b>		<b>14</b>
<b>Spring</b>		
AGSC 425	Learner Centered Instruction in Agricultural Science <sup>3,4</sup>	3
AGSC 436	Professional Teaching Internship in AGSC <sup>3,4</sup>	6
AGSC 481	Seminar <sup>3</sup>	1
AGSC 484	Field Experience <sup>3</sup>	4
ANSC 484	Livestock Practicum	1
<b>Semester Credit Hours</b>		<b>15</b>
<b>Total Semester Credit Hours</b>		<b>120</b>

cultural-diversity-requirements/) courses and 3 hours of Cultural Discourse (<http://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.

<sup>1</sup> All scientific agricultural electives are to be selected in consultation with an academic advisor.

<sup>2</sup> Select any 100-499 course not used elsewhere (except ASCC 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/ascc/>)).

<sup>3</sup> Must make a grade of C or better to receive credit.

<sup>4</sup> Professional development course required for certification as a teacher of agricultural science.

<sup>5</sup> Requires admission to teacher education. Consult with an advisor about specific requirements for admission to teacher education.

<sup>6</sup> 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 (<http://catalog.tamu.edu/undergraduate/course-descriptions/gene/>); HORT 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/hort/>); RWF 102, RWF 202, RWF 302, RWF 313, RWF 314, RWF 315, RWF 316, RWF 317, RWF 370; SCSC 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/scsc/>).

Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international->