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 TEExS 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://agric.tamu.edu/academic/undergraduate/agricultural-science-agsc/).

Program Requirements

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

<table>
<thead>
<tr>
<th>Spring</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 201</td>
<td>Horticultural Science and Practices</td>
</tr>
<tr>
<td>or SCSC 105</td>
<td>or World Food and Fiber Crops</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

Select one of the following:

| 3 |

AGSC 489 Special Topics in... | 3 |
AGSM 201 Agricultural Energy and Power Systems | 3 |
AGSM 360 Occupational Safety Management | 3 |
AGSC 489 Special Topics in... | 3 |
POSC 427 Animal Waste Management | 3 |
American history (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) | 3 |
Mathematics (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) | 3 |
General elective | 3 |

**Second Year**

| Semester Credit Hours | 15 |

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 | 3 |

| Semester Credit Hours | 15 |

Spring

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 |
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 | 3 |

| Semester Credit Hours | 15 |

Third Year

Fall

AGSC 302 Teaching School-Based Agricultural Education & Clinical Professional Experience | 4 |
INST 210 Understanding Special Populations | 3 |
Select one of the following: | 3 |
| 3 |

AGEC 314 Marketing Agricultural and Food Products | 3 |
AGEC 315 Food and Agricultural Sales | 3 |
AGEC 325 Principles of Farm and Ranch Management | 3 |
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 340</td>
<td>Agribusiness Management</td>
<td></td>
</tr>
<tr>
<td>Plant science elective</td>
<td></td>
<td>3</td>
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<tr>
<td>Scientific agricultural elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
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</table>

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSC 373</td>
<td>Managing Safety in the Agricultural Science Program</td>
<td>3</td>
</tr>
<tr>
<td>AGSC 383</td>
<td>Teaching Agricultural Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 320</td>
<td>Animal Nutrition and Feeding</td>
<td>3</td>
</tr>
<tr>
<td>INST 301</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>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>)</td>
<td>3</td>
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<tr>
<td><strong>Semester Credit Hours</strong></td>
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**Fourth Year**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSC 402</td>
<td>Designing Instruction for Secondary Agricultural Science Programs</td>
<td>3</td>
</tr>
<tr>
<td>AGSC 405</td>
<td>Facilitating Complete Secondary Agricultural Science Programs</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 380</td>
<td>Animal Science for Agricultural Science</td>
<td>3</td>
</tr>
<tr>
<td>Plant science elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Scientific agricultural elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
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<td><strong>14</strong></td>
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</table>

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSC 425</td>
<td>Learner Centered Instruction in Agricultural Science</td>
<td>3</td>
</tr>
<tr>
<td>AGSC 436</td>
<td>Professional Teaching Internship in AGSC</td>
<td>6</td>
</tr>
<tr>
<td>AGSC 481</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>AGSC 484</td>
<td>Field Experience</td>
<td>4</td>
</tr>
<tr>
<td>ANSC 484</td>
<td>Livestock Practicum</td>
<td>1</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**

120

1 All scientific agricultural electives are to be selected in consultation with an academic advisor.
2 Select any 100-499 course not used elsewhere (except ASCC 100-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/ascc/)).
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.

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