BACHELOR OF SCIENCE, MAJOR IN ANIMAL SCIENCE

The major emphasis in Animal Science prepares students for careers in the livestock and equine production and support industries. Scientific principles, management, production technologies, and skills are covered in appropriate courses. The University maintains herds and flocks for teaching and research. Students may complete pre-veterinary medicine, equine science, wildlife management and conservation biology requirements under the Animal Science program. Graduates can expect to qualify for positions in sales and service, inspection, regulation, research/teaching, breed associations, extension, or management in an animal, equine and/or wildlife management industry.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science, Major in Animal Science</td>
<td></td>
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<tr>
<td>Core Curriculum (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/)</td>
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<tr>
<td>Component Area I (Communication)</td>
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<tr>
<td>Component Area II (Mathematics)</td>
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<td>3</td>
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<tr>
<td>Component Area III (Life and Physical Science)</td>
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<tr>
<td>Component Area IV (Language, Philosophy, and Culture)</td>
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<td>3</td>
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<tr>
<td>Component Area V (Creative Arts)</td>
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<tr>
<td>Component Area VI (U.S. History)</td>
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<td>6</td>
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<tr>
<td>Component Area VII (Political Science/Government)</td>
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<td>Component Area VIII (Social and Behavioral Sciences)</td>
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<td>Component Area IX (Component Area Option)</td>
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Degree Specific Requirements

<table>
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<tr>
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<tbody>
<tr>
<td>ACOM 3360</td>
<td>Communication Skills for Agriculturists</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 3330</td>
<td>Intro to Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 1309</td>
<td>Computers in Agriculture (or approved substitute)</td>
<td>3</td>
</tr>
<tr>
<td>or CSTE 1330</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1406</td>
<td>Inorganic &amp; Envir Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 1411</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1407</td>
<td>Intro Organic and Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 1412</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>COMS 1361</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or COMS 2382</td>
<td>Comm. for Bus. &amp; Professions</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1342</td>
<td>Elementary Statistics</td>
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Major Core

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ANSC 1319</td>
<td>Animal Science</td>
<td>4</td>
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<tr>
<td>&amp; ANSC 1119</td>
<td>and Animal Science Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ANSC 2360</td>
<td>Animals and Society</td>
<td>3</td>
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<tr>
<td>ANSC 3363</td>
<td>Anatomy &amp; Physiology of the Domestic Animal</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 3373</td>
<td>Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 3376</td>
<td>Meat Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 4395</td>
<td>Animal Breeding &amp; Genetics</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 4389</td>
<td>Animal Reproduction</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 4394</td>
<td>Animal Feeds And Feeding</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 4370</td>
<td>Forage Crops &amp; Pasture Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>or PLSC 4383</td>
<td>Range Management</td>
<td>3</td>
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</tbody>
</table>

Additional Major Courses

PLSC 1307 | Plant Science | 4 |
& PLSC 1107 | and Plant Science Laboratory | 4 |
AGRI 4120 | Professional Career Skills | 1 |
Select 3 hours from the following: | | 3 |
AGBU 2317 | Principles of Agri Economics | |
AGBU 2389 | Agribusiness Financl Analysis | |
Animal Science Electives | Select 12-18 hours (9 hours must be advanced) from: ANSC, EQSC, or WMGT Electives | 12-18 |
Bachelor of Science, Major in Animal Science

### Concentration (Science) OR Minor

**Concentration (26 SCH)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1411</td>
<td>General Botany</td>
</tr>
<tr>
<td>BIOL 1413</td>
<td>General Zoology</td>
</tr>
<tr>
<td>BIOL 2440</td>
<td>Introductory Cell Biology</td>
</tr>
<tr>
<td>CHEM 1411</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 1412</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>3000 - 4000 Advanced Elective in BIOL, CHEM, PHYS, or GEOL (6 SCH)</td>
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</table>

**Minor (18 SCH)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1411</td>
<td>General Botany</td>
</tr>
<tr>
<td>BIOL 1413</td>
<td>General Zoology</td>
</tr>
<tr>
<td>BIOL 2440</td>
<td>Introductory Cell Biology</td>
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<td>CHEM 1411</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 1412</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>3000 - 4000 Advanced Elective in BIOL, CHEM, PHYS, or GEOL (6 SCH)</td>
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</table>

**Total Hours** 120

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1. CHEM 1406, CHEM 1411, CHEM 1407 and CHEM 1412 satisfy the Core Curriculum requirements for Component Area III (Life and Physical Science) and the Degree Specific Requirement.
2. COMS 1361 and COMS 2382 satisfy three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.
3. ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.
4. Students pursuing a *concentration in science* must take a minimum of 12 SCH of Animal Science electives. Students pursuing a *minor* must take a minimum of 18 SCH of Animal Science electives.
5. Students pursuing a concentration in science have the option to add a minor, excluding a Minor in Biology or a Minor in Chemistry, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

**Note:** Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

### First Year

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Component Area I (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANSC 1319 &amp; ANSC 1119</td>
<td>4 AGRI 1309 or CSTE 1330</td>
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<tr>
<td>Minor Or Concentration Course¹</td>
<td>3-4 CHEM 1406 or 1411³</td>
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</table>

**Total Hours** 14

#### Spring

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Component Area I (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai)</td>
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<td></td>
</tr>
<tr>
<td>Component Area II (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)</td>
<td>1 ANSC 2360²</td>
<td>3</td>
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</table>

**Total Hours** 16

### Second Year

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Component Area V (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)</td>
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</tr>
<tr>
<td>Component Area VI (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)</td>
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</tr>
<tr>
<td>ANSC 3363</td>
<td>3 ANSC 3373</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1407 or 1412³</td>
<td>4 ANSC Electives (ANSC, EQSC, or WMGT)⁴</td>
<td>3</td>
</tr>
<tr>
<td>Minor Or Concentration Course¹</td>
<td>3-4 COMS 1361 or 2382⁵</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 16

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¹ Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.
² Additional semester credits hours will be needed above the degree program's stated total semester credit hours.
³ Students pursuing a *concentration in science* must take a minimum of 12 SCH of Animal Science electives.
⁴ Students pursuing a *minor* must take a minimum of 18 SCH of Animal Science electives.
⁵ Additional semester credits hours will be needed above the degree program's stated total semester credit hours.
### Third Year

#### Fall

<table>
<thead>
<tr>
<th>Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ANSC 3376</td>
<td>3</td>
<td>ACOM 3360 or ENGL 3330</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 4395</td>
<td>3</td>
<td>AGBU 2317 or 2389</td>
<td>3</td>
</tr>
<tr>
<td>ANSC Elective (ANSC, EQSC, or WMGT)</td>
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<td>MATH 1342</td>
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<tr>
<td>ANSC Elective (ANSC, EQSC, or WMGT)</td>
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<td>PLSC 1307 &amp; PLSC 1107</td>
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#### Spring

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<table>
<thead>
<tr>
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<tbody>
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**Total Hours: 12**

### Fourth Year

#### Fall

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<tbody>
<tr>
<td>AGRI 4120</td>
<td>1</td>
<td>ANSC Electives (ANSC, EQSC, or WMGT)</td>
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<tr>
<td>ANSC 4394</td>
<td>3</td>
<td>Minor Advanced Or Concentration Courses</td>
<td>9-12</td>
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<tr>
<td>ANSC Electives (ANSC, EQSC, or WMGT)</td>
<td>3-6</td>
<td></td>
<td></td>
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<tr>
<td>Minor Advanced or Concentration Course</td>
<td>3-6</td>
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</tr>
<tr>
<td>PLSC 4370 or 4383</td>
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</table>

**Total Hours: 16**

### Total Hours: 120

1. See, Concentration in Science courses in below table.
2. Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4. Students pursuing a concentration in science must take a minimum of 12 SCH of Animal Science electives. Students pursuing a minor must take a minimum of 18 SCH of Animal Science electives.
5. Satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

#### Code

<table>
<thead>
<tr>
<th>Concentration in Science</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOL 1411</td>
<td>General Botany</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1413</td>
<td>General Zoology</td>
<td>4</td>
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</tr>
<tr>
<td>CHEM 1412</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>3000-4000 Advanced Elective in BIOL, CHEM, PHYS, or GEOL</td>
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</table>

**Total Hours: 26**

### Notes

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Students pursing a concentration in science have the option to add a minor, excluding a Minor in Biology or a Minor in Chemistry, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Animal Science is designed to provide graduates with the following marketable skills:

- Ability to make livestock management decisions based on scientific, economic, and other applicable information.
- Knowledgeable of each segment of the food animal and meat industry and make critical marketing decisions in each.
- Understand nutrition as it applies to animal performance and be able to develop balanced rations to meet physiological and production needs.
- Develop presentations and effectively communicate factual information, logically and concisely, both orally and in writing.
• Understand anatomy, physiology, and functions of the major organs and systems of livestock.