## Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine

### Core Curriculum

- **Component Area I (Communication)**
  - Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine

- **Component Area II (Mathematics)**

- **Component Area III (Life and Physical Science)**

- **Component Area IV (Language, Philosophy, and Culture)**

- **Component Area V (Creative Arts)**

- **Component Area VI (U.S. History)**

- **Component Area VII (Political Science/Government)**

- **Component Area VIII (Social and Behavioral Sciences)**

- **Component Area IX (Component Area Option)**

### Degree Specific Requirements

- **ANSC 2360**: Animals and Society
- **COMS 2382**: Communication for Business & the Professions
- **ENGL 3330**: Introduction to Technical Writing
- **MATH 1316**: Plane Trigonometry
- **STAT 3379**: Statistical Methods in Practice

### Major: Foundation

- **AGRI 4120**: Professional Career Skills
- **AGRI 4350**: Agricultural Biosecurity
- **ANSC 1319**: Animal Science
- **ANSC 1119**: Animal Science Laboratory
- **ANSC 2330**: Companion Animal Science
- **ANSC 3363**: Anatomy & Physiology of the Domestic Animal
- **ANSC 3373**: Animal Nutrition
- **ANSC 3376**: Meat Science
- **ANSC 4389**: Animal Reproduction
- **ANSC 4394**: Animal Feeds And Feeding
- **ANSC 4395**: Animal Breeding & Genetics
- **ANSC 4398**: Animal Diseases & Public Health

### Major: Prescribed Advanced Electives

Select four hours from: ANSC, EQSC or WMGT

### Concentration: Pre-Veterinary

- **BIOL 1406**: General Biology I
- **BIOL 1407**: General Biology II
- **BIOL 3450**: Introductory Genetics
- **BIOL 3470**: General Microbiology
- **CHEM 1411**: General Chemistry I
- **CHEM 1412**: General Chemistry II
- **CHEM 2323**: Organic Chemistry I: Lecture
- **CHEM 2123**: Organic Chemistry I: Lab
- **CHEM 3235**: Organic Chemistry II: Lecture
- **CHEM 2125**: Organic Chemistry II: Lab
- **CHEM 3438**: Biochemistry I
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| PHYS 1301 | General Physics-Mechanics and Heat and General Physics Laboratory I | 4 |
| PHYS 1101 | & PHYS 1102 | 4 |
| PHYS 1302 | General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II | 4 |

**Minor: Not Required**

**Total Hours**

1. MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.
2. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.
3. ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4. COMS 2382 and COMS 1361 satisfy the Core Curriculum requirement for Component Area IX and degree specific requirement.
5. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
6. The following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Wildlife Ecology.

**Notes**

Students must earn a 3.0 minimum overall GPA in all coursework to remain in Pre-Veterinary concentration.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

**First Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
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<tr>
<td>ANSC 1319 &amp; ANSC 1119</td>
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<td>4 Component Area IV (<a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv</a>)</td>
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<td>ENGL 1301</td>
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**Second Year**

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<td>ANSC 3363</td>
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<td>ANSC 2360</td>
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<td>CHEM 2323 &amp; CHEM 2123</td>
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<td>ANSC 3373</td>
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<td>ENGL 1302</td>
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<td>CHEM 2325</td>
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<td>CHEM 2125</td>
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<td>COMS 2382 or 1361</td>
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**Third Year**

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<td>ANSC 4389</td>
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<td>BIOL 3450</td>
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<td>PHYS 1301 &amp; PHYS 1102</td>
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### Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine

**Fourth Year**

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<th>Component Area V (<a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a>)</th>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
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<td>Component Area IX (<a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareixa">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareixa</a>)</td>
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<td>1 ANSC 4394</td>
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<td>AGRI 4120</td>
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**Total Hours: 120**

1. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.
2. Satisfies Core Curricular requirement for Component Area II (Mathematics) and the Degree Specific Requirement.
3. Satisfies Core Curricular requirement for Component Area I (Communications).
4. Satisfies Core Curricular requirement for Component Area VI (U.S. History).
5. Select four hours from: ANSC, EOSC or WMGT.
6. ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7. COMS 1361 or COMS 2382 satisfy the Core Curriculum requirement for Component Area IX and degree specific requirement.

### Notes

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A minor is not required for this degree, however, if a student chooses a minor, the following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Wildlife Ecology.

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, Pre-Veterinary Medicine is designed to provide graduates with the following marketable skills:

- Make livestock management decisions based on scientific, economic, and other applicable information.
- Knowledge 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, in both oral and written form.
- Understand anatomy, physiology, and functions of the major organs and systems of livestock.