# BACHELOR OF SCIENCE, MAJOR IN ANIMAL SCIENCE, PRE-VETERINARY MEDICINE

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine</td>
<td>Core Curriculum (<a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/">link</a>)</td>
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<tr>
<td></td>
<td>Component Area I (Communication)</td>
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<tr>
<td></td>
<td>Component Area II (Mathematics) 1</td>
<td>3</td>
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<tr>
<td></td>
<td>Component Area III (Life and Physical Science) 2</td>
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<tr>
<td></td>
<td>Component Area IV (Language, Philosophy, and Culture)</td>
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<td>Component Area V (Creative Arts)</td>
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<td>Component Area VI (U.S. History)</td>
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<td>Component Area VII (Political Science/Government)</td>
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<tr>
<td></td>
<td>Component Area VIII (Social and Behavioral Sciences) 3</td>
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<td></td>
<td>Component Area IX (Component Area Option) 4</td>
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<tr>
<td>Degree Specific Requirements</td>
<td>ANSC 2360 Animals and Society 3</td>
<td>3</td>
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<td>COMS 2382 Comm. for Bus. &amp; Professions 4</td>
<td>3</td>
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<tr>
<td></td>
<td>or COMS 1361 Public Speaking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 3330 Intro to Technical Writing</td>
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<tr>
<td></td>
<td>or ACOM 3360 Communication Skills for Agriculturists</td>
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<tr>
<td></td>
<td>MATH 1316 Plane Trigonometry 1</td>
<td>3</td>
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<td></td>
<td>STAT 3379 Statistical Methods in Practice</td>
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<tr>
<td>Major: Foundation</td>
<td>AGRI 4120 Professional Career Skills</td>
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<tr>
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<td>Select one from the following:</td>
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<tr>
<td></td>
<td>AGRI 4350 Agricultural Biosecurity</td>
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<tr>
<td></td>
<td>ANSC 4398 Animal Diseases &amp; Public Hlth</td>
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<tr>
<td></td>
<td>ANSC 1319 Animal Science</td>
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<tr>
<td></td>
<td>&amp; ANSC 1119 and Animal Science Laboratory</td>
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<tr>
<td></td>
<td>ANSC 2330 Companion Animal Science</td>
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<tr>
<td></td>
<td>ANSC 3363 Anatomy &amp; Physiology of the Domestic Animal</td>
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<tr>
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<td>ANSC 3373 Animal Nutrition</td>
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<td>ANSC 3376 Meat Science</td>
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<td></td>
<td>ANSC 4389 Animal Reproduction</td>
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<tr>
<td></td>
<td>ANSC 4394 Animal Feeds And Feeding</td>
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<tr>
<td></td>
<td>ANSC 4395 Animal Breeding &amp; Genetics</td>
<td>3</td>
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<tr>
<td></td>
<td>PLSC 4370 Forage Crops &amp; Pasture Mgmt</td>
<td>3</td>
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<tr>
<td></td>
<td>or PLSC 4383 Range Management</td>
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<tr>
<td>Major: Prescribed Advanced Electives</td>
<td>Select four hours from: ANSC, EQSC or WMGT</td>
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<tr>
<td>Concentration: Pre-Veterinary</td>
<td>BIOL 1406 General Biology I 2</td>
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<tr>
<td></td>
<td>BIOL 1407 General Biology II 2</td>
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<tr>
<td></td>
<td>BIOL 3450 Introductory Genetics</td>
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</tr>
<tr>
<td></td>
<td>BIOL 3470 General Microbiology</td>
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<tr>
<td></td>
<td>CHEM 1411 General Chemistry I 2</td>
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<tr>
<td></td>
<td>CHEM 1412 General Chemistry II 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CHEM 2323 Organic Chemistry I: Lecture</td>
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</tr>
<tr>
<td></td>
<td>&amp; CHEM 2123 and Organic Chemistry I Lab</td>
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</table>
Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHEM 2325 &amp; CHEM 2125</td>
<td>Organic Chemistry II: Lecture and Organic Chemistry II: Lab</td>
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<tr>
<td>CHEM 3438</td>
<td>Biochemistry I</td>
<td>4</td>
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<tr>
<td>PHYS 1301 &amp; PHYS 1101</td>
<td>General Phy-Mechanics &amp; Heat and General Physics Laboratory I</td>
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<tr>
<td>PHYS 1302 &amp; PHYS 1102</td>
<td>Gen Phy-Snd,Lght, Elec, &amp; Mag and General Physics Laboratory II</td>
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</table>

**Minor: Not Required**

**Total Hours**: 120

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1. MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.
2. BIOL 1406, BIOL 1407, 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 or 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 2.0 minimum overall GPA in all coursework.

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>Semester</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ANSC 1319 &amp; ANSC 1119</td>
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<tr>
<td></td>
<td>BIOL 1406</td>
<td>4 ANSC 2330</td>
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<td></td>
<td>CHEM 1411</td>
<td>4 BIOL 1407</td>
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<td>MATH 1316</td>
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**Second Year**

<table>
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<tr>
<th>Semester</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
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<tr>
<td>Fall</td>
<td>ANSC 3363</td>
<td>3 ANSC 2360</td>
</tr>
<tr>
<td></td>
<td>CHEM 2323 &amp; CHEM 2123</td>
<td>4 ANSC 3373</td>
</tr>
<tr>
<td></td>
<td>ENGL 1302</td>
<td>3 CHEM 2325 &amp; CHEM 2125</td>
</tr>
<tr>
<td></td>
<td>HIST 1301</td>
<td>3 COMS 2382 or 1361</td>
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<td></td>
<td>Major Prescribed Electives</td>
<td>4 HIST 1302</td>
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<td>17</td>
<td>16</td>
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**Third Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ANSC 3376</td>
<td>3 ANSC 4389</td>
</tr>
<tr>
<td></td>
<td>BIOL 3450</td>
<td>4 BIOL 3470</td>
</tr>
<tr>
<td></td>
<td>PHYS 1301 &amp; PHYS 1101</td>
<td>4 PHYS 1302 &amp; PHYS 1102</td>
</tr>
</tbody>
</table>
Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine

POLS 2305 7 3  POLS 2306 7 3

Fourth Year
Fall
Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaxi)

Component Area V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)

AGRI 4120 1 CHEM 3438 4
ANSC 4394 3 PLSC 4370 or 4383 3
ENGL 3330 or ACOM 3360 3
STAT 3379 3

Total Hours: 120

1 Satisfies Core Curricular requirement for Component Area II (Mathematics).
2 Satisfies Core Curricular requirement for Component Area III (Life and Physical Science).
3 Satisfies Core Curricular requirement for Component Area I (Communications).
4 Satisfies Core Curricular requirement for Component Area VI (U.S. History).
5 ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
6 COMS 1361 or COMS 2382 satisfy the Core Curriculum requirement for Component Area IX and degree specific requirement.
7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

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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.

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.