

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

**Additional information:** Reference the Program Landing Page (<https://www.shsu.edu/programs/bachelor-of-science-in-animal-science/>) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
<b>Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine</b>		
<b>Core Curriculum</b>		
Component Area I (Communication)		6
Component Area II (Mathematics) <sup>1</sup>		3
Component Area III (Life and Physical Science) <sup>2</sup>		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) <sup>3</sup>		3
Component Area IX (Component Area Option) <sup>4</sup>		4
<b>Degree Specific Requirements</b>		
ANSC 2360	Animals and Society <sup>3</sup>	3
COMS 2382 or COMS 1361	Communication for Business & the Professions <sup>4</sup> Public Speaking	3
ENGL 3330 or ACOM 3360	Introduction to Technical Writing Communication Skills for Agriculturists	3
MATH 1316	Plane Trigonometry <sup>1</sup>	3
STAT 3379	Statistical Methods in Practice	3
<b>Major: Foundation</b>		
AGRI 4120	Professional Career Skills	1
AGRI 4350	Agricultural Biosecurity	3
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 2330	Companion Animal Science	3
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
ANSC 4395	Animal Breeding & Genetics	3
ANSC 4398	Animal Diseases & Public Health	3
<b>Major: Prescribed Advanced Electives</b>		
Select four hours from: ANSC, EQSC or WMGT		4
<b>Concentration: Pre-Veterinary</b>		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
CHEM 1411	General Chemistry I <sup>2</sup>	4
CHEM 1412	General Chemistry II <sup>2</sup>	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4

CHEM 3438	Biochemistry I	4
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
<b>Minor: Not Required</b> <sup>5,6</sup>		

**Total Hours** **120**

- <sup>1</sup> MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.
- <sup>2</sup> CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.
- <sup>3</sup> ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- <sup>4</sup> COMS 2382 and COMS 1361 satisfy the Core Curriculum requirement for Component Area IX and degree specific requirement.
- <sup>5</sup> 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.
- <sup>6</sup> 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

Fall	Hours	Spring	Hours
ANSC 1319 & ANSC 1119		4 Component Area IV	3
BIOL 1406		4 ANSC 2330	3
CHEM 1411 <sup>1</sup>		4 BIOL 1407	4
MATH 1316 <sup>2</sup>		3 CHEM 1412 <sup>1</sup>	4
		ENGL 1301 <sup>3</sup>	3
		<b>15</b>	<b>17</b>

### Second Year

Fall	Hours	Spring	Hours
ANSC 3363		3 ANSC 2360 <sup>6</sup>	3
CHEM 2323 & CHEM 2123		4 ANSC 3373	3
ENGL 1302 <sup>3</sup>		3 CHEM 2325 & CHEM 2125	4
HIST 1301 <sup>4</sup>		3 COMS 2382 or 1361 <sup>7</sup>	3
Major Prescribed Electives <sup>5</sup>		4 HIST 1302 <sup>4</sup>	3
		<b>17</b>	<b>16</b>

### Third Year

Fall	Hours	Spring	Hours
ANSC 3376		3 ANSC 4389	3
BIOL 3450		4 BIOL 3470	4
PHYS 1301 & PHYS 1101		4 PHYS 1302 & PHYS 1102	4
POLS 2305 <sup>8</sup>		3 POLS 2306 <sup>8</sup>	3
		<b>14</b>	<b>14</b>

### Fourth Year

Fall	Hours	Spring	Hours
Component Area V		3 AGRI 4350	3

Component Area IX	1 ANSC 4394	3
AGRI 4120	1 ANSC 4395	3
CHEM 3438	4 ANSC 4398	3
ENGL 3330 or ACOM 3360	3	
STAT 3379	3	
	<b>15</b>	<b>12</b>

**Total Hours: 120**

- <sup>1</sup> CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.
- <sup>2</sup> Satisfies Core Curricular requirement for Component Area II (Mathematics) and the Degree Specific Requirement.
- <sup>3</sup> Satisfies Core Curricular requirement for Component Area I (Communications).
- <sup>4</sup> Satisfies Core Curricular requirement for Component Area VI (U.S. History).
- <sup>5</sup> Select four hours from: ANSC, EQSC or WMGT.
- <sup>6</sup> ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- <sup>7</sup> COMS 1361 or COMS 2382 satisfy the Core Curriculum requirement for Component Area IX and degree specific requirement.
- <sup>8</sup> Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

**Notes**

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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.

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.