

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

Code	Title	Hours
Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine		
Core Curriculum (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/)		
Component Area I (Communication)		6
Component Area II (Mathematics) ¹		3
Component Area III (Life and Physical Science) ²		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) ³		3
Component Area IX (Component Area Option) ⁴		4
Degree Specific Requirements		
ANSC 2360	Animals and Society ³	3
COMS 2382 or COMS 1361	Comm. for Bus. & Professions ⁴ Public Speaking	3
ENGL 3330 or ACOM 3360	Intro to Technical Writing Communication Skills for Agriculturists	3
MATH 1316	Plane Trigonometry ¹	3
STAT 3379	Statistical Methods in Practice	3
Major: Foundation		
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 Hlth	3
Major: Prescribed Advanced Electives		
Select four hours from: ANSC, EQSC or WMGT		4
Concentration: Pre-Veterinary		
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 ²	4
CHEM 1412	General Chemistry II ²	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 Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Minor: Not Required ^{5,6}		

Total Hours **120**

- 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 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

Fall	Hours	Spring	Hours
ANSC 1319 & ANSC 1119		4 Component Area IV (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv)	3
BIOL 1406		4 ANSC 2330	3
CHEM 1411 ¹		4 BIOL 1407	4
MATH 1316 ²		3 CHEM 1412 ¹	4
		ENGL 1301 ³	3
		15	17

Second Year

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

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 ⁸		3 POLS 2306 ⁸	3
		14	14

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)		1 AGRI 4350	3
Component Area V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)		3 ANSC 4395	3
AGRI 4120		1 ANSC 4398	3
ANSC 4394		3 CHEM 3438	4
ENGL 3330 or ACOM 3360		3	
STAT 3379		3	
	14		13

Total Hours: 120

- 1 Satisfies Core Curricular requirement for Component Area III (Life and Physical Science).
- 2 Satisfies Core Curricular requirement for Component Area II (Mathematics).
- 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, EQSC or WMGT.
- 6 ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- 7 COMS 1361 COMS 2382 satisfy the Core Curriculum requirement for Component Area IX and degree specific requirement.
- 8 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.