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	Communication for Business & the Professions [4]	3
or COMS 1361	Public Speaking	
ENGL 3330	Introduction to Technical Writing	3
or ACOM 3360	Communication Skills for Agriculturists	
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 Health	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 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
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 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

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 V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)		3 AGRI 4350	3
Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)		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	
		15	**12**

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, EQSC 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.
[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.