

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 Core		
AGRI 4120	Professional Career Skills	1
Select one from the following:		3
AGRI 4350	Agricultural Biosecurity	
ANSC 4398	Animal Diseases & Public Hlth	
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
PLSC 4370 or PLSC 4383	Forage Crops & Pasture Mgmt Range Management	3
Minor		
BIOL 1411	General Botany ²	4
BIOL 1413	General Zoology ²	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
CHEM 1411	General Chemistry I ⁴	4
CHEM 1412	General Chemistry II ⁴	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

Total Hours **120**

¹ MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.

² BIOL 1411, BIOL 1413, 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.

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 1411 ¹		4 ANSC 2330	3
CHEM 1411 ¹		4 BIOL 1413	4
MATH 1316 ²		3 ENGL 1301 ³	3
		CHEM 1412	4
		15	17

Second Year

Fall	Hours	Spring	Hours
ANSC 3363		3 ANSC 2360 ⁵	3
BIOL 2440		4 ANSC 3373	3
CHEM 2323 & CHEM 2123		4 CHEM 2325 & CHEM 2125	4
ENGL 1302 ³		3 COMS 2382 or 1361 ⁶	3
HIST 1301 ⁴		3 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 ⁷		3 POLS 2306 ⁷	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 ANSC 4395	3
Component Area V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)		3 ANSC 4398 or AGRI 4350	3
AGRI 4120		1 CHEM 3438	4
ANSC 4394		3 PLSC 4370 or 4383	3
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 ANSC 2360 (<http://catalog.shsu.edu/archives/2021-2022/search/?P=ANSC%202360>) satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- 6 Satisfies Core Curricular requirement for Component Area IX (Component Area Option).
- 7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

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:

- Ability to make livestock management decisions based on scientific, economic, and other applicable information.
- Knowledgeable 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.
- Able to 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.