

BACHELOR OF SCIENCE, MAJOR IN ANIMAL SCIENCE

The major emphasis in Animal Science prepares students for careers in the livestock and equine production and support industries. Scientific principles, management, production technologies, and skills are covered in appropriate courses. The University maintains herds and flocks for teaching and research. Students may complete pre-veterinary medicine, equine science, wildlife management and conservation biology requirements under the Animal Science program. Graduates can expect to qualify for positions in sales and service, inspection, regulation, research/teaching, breed associations, extension, or management in an animal, equine and/or wildlife management industry.

Code	Title	Hours
Bachelor of Science, Major in Animal Science		
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)		3
Component Area III (Life and Physical Science) ¹		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) ²		3
Component Area IX (Component Area Option) ³		4
Degree Specific Requirements		
ACOM 3360 or ENGL 3330	Communication Skills for Agriculturists Intro to Technical Writing	3
AGRI 1309 or CSTE 1330	Computers in Agriculture (or approved substitute) Introduction to Computers	3
CHEM 1406 or CHEM 1411	Inorganic & Envir Chemistry ¹ General Chemistry I	4
CHEM 1407 or CHEM 1412	Intro Organic and Biochemistry ¹ General Chemistry II	4
COMS 1361 or COMS 2382	Public Speaking ³ Comm. for Bus. & Professions	3
MATH 1342	Elementary Statistics	3
Major Core		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 2360	Animals and Society ²	3
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4395	Animal Breeding & Genetics	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
PLSC 4370 or PLSC 4383	Forage Crops & Pasture Mgmt Range Management	3
Additional Major Courses		
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
AGRI 4120	Professional Career Skills	1
Select 3 hours from the following:		3
AGBU 2317	Principles of Agri Economics	
AGBU 2389	Agribusiness Financl Analysis	
Animal Science Electives ⁴		

Select 12-18 hours (9 hours must be advanced) from: ANSC, EQSC, or WMGT Electives	12-18
Concentration (Science) OR Minor	18-26
Concentration (26 SCH)⁵	
BIOL 1411	General Botany
BIOL 1413	General Zoology
BIOL 2440	Introductory Cell Biology
CHEM 1411	General Chemistry I
CHEM 1412	General Chemistry II
3000 - 4000 Advanced Elective in BIOL, CHEM, PHYS, or GEOL (6 SCH)	
Minor (18 SCH)	
Minor	
Minor (Advanced)	

Total Hours **120**

- ¹ CHEM 1406, CHEM 1411, CHEM 1407 and CHEM 1412 satisfy the Core Curriculum requirements for Component Area III (Life and Physical Science) and the Degree Specific Requirement.
- ² COMS 1361 and COMS 2382 satisfy three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.
- ³ ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.
- ⁴ Students pursuing a **concentration in science** must take a minimum of 12 SCH of Animal Science electives. Students pursuing a **minor** must take a minimum of 18 SCH of Animal Science electives.
- ⁵ Students pursuing a concentration in science have the option to add a minor, excluding a Minor in Biology or a Minor in Chemistry, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

Note: Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai)		3 Component Area I (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai)	3
Component Area II (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii)		3 Component Area IV (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii)	3
Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)		1 ANSC 2360 ²	3
ANSC 1319 & ANSC 1119		4 AGRI 1309 or CSTE 1330	3
Minor Or Concentration Course ¹		3-4 CHEM 1406 or 1411 ³	4
		14	16

Second Year

Fall	Hours	Spring	Hours
Component Area V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)		3 Component Area VI (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)	3
Component Area VI (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)		3 Component Area VII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3
ANSC 3363		3 ANSC 3373	3
CHEM 1407 or 1412 ³		4 ANSC Electives (ANSC, EQSC, or WMGT) ⁴	3

Minor Or Concentration Course ¹		3-4 COMS 1361 or 2382 ⁵	3
		16	15
Third Year			
Fall	Hours	Spring	Hours
Component Area VII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)		3 ACOM 3360 or ENGL 3330	3
ANSC 3376		3 AGBU 2317 or 2389	3
ANSC 4395		3 ANSC 4389	3
ANSC Elective (ANSC, EQSC, or WMGT) ⁴		3 MATH 1342	3
		PLSC 1307 & PLSC 1107	4
		12	16
Fourth Year			
Fall	Hours	Spring	Hours
AGRI 4120		1 ANSC Electives (ANSC, EQSC, or WMGT) ⁴	3-6
ANSC 4394		3 Minor Advanced Or Concentration Courses ¹	9-12
ANSC Electives (ANSC, EQSC, or WMGT) ⁴		3-6	
Minor Advanced or Concentration Course		3-6	
PLSC 4370 or 4383		3	
		16	15

Total Hours: 120

- ¹ See, Concentration in Science courses in below table.
- ² Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- ³ Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
- ⁴ Students pursuing a **concentration in science** must take a minimum of 12 SCH of Animal Science electives. Students pursuing a **minor** must take a minimum of 18 SCH of Animal Science electives.
- ⁵ Satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

Code	Title	Hours
Concentration in Science ¹		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
3000-4000 Advanced Elective in BIOL, CHEM, PHYS, or GEOL		6
Total Hours		26

Notes

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Students pursuing a concentration in science have the option to add a minor, excluding a Minor in Biology or a Minor in Chemistry, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

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 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.
- Develop presentations and effectively communicate factual information, logically and concisely, both orally and in writing.
- Understand anatomy, physiology, and functions of the major organs and systems of livestock.