

# 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
<b>Bachelor of Science, Major in Animal Science</b>		
Core Curriculum ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/</a> )		
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>		
AGRI 1309 or CSTE 1330	Computers in Agriculture (or approved substitute) Introduction to Computers	3
COMS 1361 or COMS 2382	Public Speaking <sup>3</sup> Comm. for Bus. & Professions	3
MATH 1314	Pre Calculus Algebra <sup>1</sup>	3
MATH 1342	Elementary Statistics	3
CHEM 1406 or CHEM 1411	Inorganic & Envir Chemistry <sup>2</sup> General Chemistry I	4
CHEM 1407 or CHEM 1412	Intro Organic and Biochemistry <sup>2</sup> General Chemistry II	4
ACOM 3360 or ENGL 3330	Communication Skills for Agriculturists Intro to Technical Writing	3
<b>Major: Foundation</b>		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 2360	Animals and Society <sup>4</sup>	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
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	

## Major: Prescribed Electives

Select 18 hours (9 hours must be advanced) from: ANSC, EQSC, or WMGT Electives	18
<b>Minor: Required</b> <sup>5</sup>	
Minor	6
Minor (Advanced)	12
<b>Total Hours</b>	<b>120</b>

- <sup>1</sup> MATH 1314 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.
- <sup>5</sup> The following minor cannot be paired with this degree program: Minor in Early Childhood Education.

### 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.

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

### First Year

Fall	Hours	Spring	Hours
Component Area I ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai</a> )		3 Component Area I ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai</a> )	3
MATH 1314 <sup>1</sup>		3 Component Area IV ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai</a> )	3
Component Area IX ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix</a> )		1 AGRI 1309 or CSTE 1330	3
ANSC 1319 & ANSC 1119		4 ANSC 2360 <sup>3</sup>	3
Minor <sup>2</sup>		3 CHEM 1406 or 1411 <sup>4</sup>	4
		<b>14</b>	<b>16</b>

### Second Year

Fall	Hours	Spring	Hours
Component Area V ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a> )		3 Component Area VI ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi</a> )	3
Component Area VI ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi</a> )		3 Component Area VII ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii</a> )	3
ANSC 3363		3 ANSC 3373	3
CHEM 1407 or 1412 <sup>3</sup>		4 COMS 1361 or 2382 <sup>5</sup>	3
Minor <sup>2</sup>		3 Prescribed Electives: ANSC, EQSC, WMGT (9 hours advanced)	3

**Third Year**

<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
Component Area VII ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii</a> )		3 ACOM 3360 or ENGL 3330	3
ANSC 3376		3 AGBU 2317 or 2389	3
ANSC 4395		3 ANSC 4389	3
Prescribed Electives: ANSC, EQSC, WMGT (9 hours advanced)		3 MATH 1342	3
		PLSC 1307 & PLSC 1107	4
	<b>12</b>		<b>16</b>

**Fourth Year**

<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
AGRI 4120		1 Minor Advanced <sup>2</sup>	9
ANSC 4394		3 Prescribed Electives: ANSC, EQSC, WMGT (9 hours advanced)	6
Minor Advanced <sup>2</sup>		3	
PLSC 4370 or 4383		3	
Prescribed Electives: ANSC, EQSC, WMGT (9 hours advanced)		6	
	<b>16</b>		<b>15</b>

**Total Hours: 120**

<sup>1</sup> MATH 1314 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and Degree Specific Requirement.

<sup>2</sup> The following minor cannot be paired with this degree program: Minor in Early Childhood Education.

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

**Notes**

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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.
- 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, both orally and in writing.
- Understand anatomy, physiology, and functions of the major organs and systems of livestock.