

# BACHELOR OF SCIENCE, MAJOR IN ANIMAL SCIENCE WITH TEACHING CERTIFICATION

Code	Title	Hours
<b>Bachelor of Science, Major in Animal Science with Teaching Certification</b>		
<b>Core Curriculum</b> ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/">https://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) <sup>3</sup>		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) <sup>4</sup>		3
Component Area IX (Component Area Option)		4
<b>Degree Specific Requirements</b>		
ACOM 3360	Communication Skills for Agriculturists	3
CHEM 1406 or CHEM 1411	Inorganic & Environmental Chemistry <sup>2</sup> General Chemistry I	4
CHEM 1407 or CHEM 1412	Introduction to Organic and Biochemistry <sup>2</sup> General Chemistry II	4
MATH 1314 or MATH 1332 or MATH 1324	Pre Calculus Algebra <sup>1</sup> College Mathematics Mathematics for Managerial Decision Making	3
MATH 1342	Elementary Statistics	3
<b>Major: Foundation</b>		
AGBU 2317	Principles of Agricultural Economics	3
AGBU 2389 or AGBU 3350	Agribusiness Financial Analysis Agribusiness for Agriculture Education Teachers	3
AGED 3310	Teaching Agricultural Technology	3
AGED 3320	The Secondary Agriculture Education Program	3
AGED 4388	Secondary Agriculture Education Program Management	3
AGET 2303	Introduction to Agricultural Engineering Technology	3
AGET 4384	Fusing & Joining of Metals & Non-Metals	3
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4360	Livestock Management Techniques	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 4370 or PLSC 4383	Forage Crops and Pasture Management Range Management	3
Advanced PLSC Elective		3
<b>Major: Prescribed Electives</b>		
Select one from the following:		3
AGRI 4350	Agricultural Biosecurity	

ANSC 4393	Animal Legal Issues	
ANSC 4397	Disaster/Emergency Management in Agriculture	
ANSC 4398	Animal Diseases & Public Health	
<b>Animal Production Electives</b>		
Select one from the following:		
		3
ANSC 4376	Sheep & Goat Production & Management	
ANSC 4380	Beef Cattle Production & Management	
EQSC 2364	Equine Science	
WMGT 2301	Principles of Wildlife Management	
<b>Teaching Certification</b>		
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Responsibilities of the Professional Educator	3
READ 4378	Multiple Literacies in Secondary Education	3
<b>Secondary Ed Courses - AGED</b>		
AGED 4364	Methods of Teaching Agriculture Education	3
AGED 4365	Student Teaching in Agriculture Education	3
AGED 4366	Student Teaching in Agriculture Education	3
AGED 4394	Agriculture Education Learning Environments	3
<b>Minor: Not Required</b> <sup>5, 6</sup>		
<b>Total Hours</b>		<b>134</b>

<sup>1</sup> Satisfies the Core Curriculum requirement for Component Area II (Mathematics).

<sup>2</sup> CHEM 1406, CHEM 1407, CHEM 1411, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.

<sup>3</sup> PLSC 2399 is recommended and satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

<sup>4</sup> ANSC 2360 is recommended and satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

<sup>5</sup> 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 credit hours may be needed above the degree program's stated total semester credit hours.

<sup>6</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 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

## First Year

Fall	Hours	Spring	Hours
Component Area IX ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix</a> )		1 CHEM 1406 or 1411 <sup>3</sup>	4
AGET 2303		3 ENGL 1302 <sup>1</sup>	3

ANSC 1319 & ANSC 1119	4 HSTY 1301 <sup>4</sup>	3
ENGL 1301 <sup>1</sup>	3 MATH 1342	3
MATH 1314, 1332, or 1324 <sup>2</sup>	3 PLSC 1307 & PLSC 1107	4

**14** **17**

**Second Year**

Fall	Hours	Spring	Hours
Component Area V ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a> ) <sup>5</sup>		3 Component Area IV ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a> )	3
AGBU 2317		3 Component Area VIII ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii</a> ) <sup>6</sup>	3
ANSC 3363		3 ANSC 3373	3
CHEM 1407 or 1412 <sup>3</sup>		4 ANSC 4393, 4397, 4398, or AGRI 4350	3
HSTY 1302 <sup>4</sup>		3 POLS 2305 <sup>7</sup>	3

**16** **15**

**Third Year**

Fall	Hours	Spring	Hours	Summer	Hours
AGBU 2389 or 3350		3 ACOM 3360		3 Component Area IX ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix</a> )	3
AGED 3320		3 ANSC 4360		3 Advanced PLSC Elective	3
ANSC 3376		3 ANSC 4389		3 AGED 3310	3
CISE 3384		3 CISE 4380		3 AGED 4388	3
POLS 2306 <sup>7</sup>		3 PLSC 4370 or 4383			3
		READ 4378			3

**15** **18**

**Fourth Year**

Fall	Hours	Spring	Hours
AGET 4384		3 AGED 4364	3
ANSC 4394		3 AGED 4365	3
CISE 4364		3 AGED 4366	3
CISE 4379		3 AGED 4394	3

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Animal Production Electives <sup>8</sup>	3	
	<b>15</b>	<b>12</b>

**Total Hours: 134**

- <sup>1</sup> Satisfies the Core Curriculum requirement for Component Area I (Communication).  
<sup>2</sup> Satisfies the Core Curriculum requirement for Component Area II (Mathematics).  
<sup>3</sup> CHEM 1406, CHEM 1407, CHEM 1411, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.  
<sup>4</sup> Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).  
<sup>5</sup> PLSC 2399 is recommended and satisfies the Core Curriculum requirement for Component Area V (Creative Arts).  
<sup>6</sup> ANSC 2360 is recommended and satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).  
<sup>7</sup> Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).  
<sup>8</sup> Select three hours from the Animal Production Electives list below.

Code	Title	Hours
<b>Animal Production Electives<sup>8</sup></b>		<b>3</b>
Select one from the following:		
ANSC 4376	Sheep & Goat Production & Management	
ANSC 4380	Beef Cattle Production & Management	
EQSC 2364	Equine Science	
WMGT 2301	Principles of Wildlife Management	

**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 with Teaching Certification 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.
- Manage, organize, and conduct Supervised Agricultural Experience Programs, Leadership, Career, and Speaking Development Events.
- Develop annual and long range plans (program of activity, semester, and lesson plans, etc.).
- Utilize effective research based techniques to develop a positive classroom environment.

- Create lessons and units of instruction to meet the Texas Essential Knowledge and Skills requirements for Agriculture, Food, and Natural Resources classes.