

BACHELOR OF SCIENCE, MAJOR IN ANIMAL SCIENCE WITH TEACHING CERTIFICATION

| Code | Title | Hours |
|---|--|-------|
| Bachelor of Science, Major in Animal Science with Teaching Certification | | |
| 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 | | 3 |
| Component Area VI (U.S. History) | | 6 |
| Component Area VII (Political Science/Government) | | 6 |
| Component Area VIII (Social and Behavioral Sciences) ⁴ | | 3 |
| Component Area IX (Component Area Option) | | 4 |
| Degree Specific Requirements | | |
| ACOM 3360 | Communication Skills for Agriculturists | 3 |
| AGRI 1309 or CSTE 1330 | Computers in Agriculture (or approved substitute) Introduction to Computers | 3 |
| CHEM 1406 or CHEM 1411 | Inorganic & Envir Chemistry ² General Chemistry I | 4 |
| CHEM 1407 or CHEM 1412 | Intro Organic and Biochemistry ¹ General Chemistry II | 4 |
| MATH 1314 or MATH 1332 | Pre Calculus Algebra ¹ College Mathematics | 3 |
| MATH 1342 | Elementary Statistics | 3 |
| Animal Science Major With Teacher Certification | | |
| AGBU 2389 | Agribusiness FinancI Analysis | 3 |
| AGBU 2317 | Principles of Agri Economics | 3 |
| AGED 3310 | Teaching Ag Technology | 3 |
| AGED 3320 | The Secondary Agriculture Education Program | 3 |
| AGED 4388 | Secondary Agriculture Education Program Management | 3 |
| AGET 2303 | Intro to Ag Engineering Tech | 3 |
| AGET 4381 | Adv Agricultural Mechanics | 3 |
| AGRI 1131 | Intro to Pro Leadership Skills | 1 |
| 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 Mgt 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 3440 | Soil Science | 4 |
| PLSC 4370 or PLSC 4383 | Forage Crops & Pasture Mgmt Range Management | 3 |
| Select one from the following Animal Production Electives: | | 3 |
| ANSC 4376 | Sheep & Goat Production & Mgt | |

| | | |
|-------------------------------|---|------------|
| ANSC 4380 | Beef Cattle Production & Mgmt | |
| EQSC 2364 | Equine Science | |
| WMGT 3381 | Game Animal Production | |
| Teaching Certification | | |
| CISE 3384 | The Teaching Profession | 3 |
| CISE 4364 | Mth Tch Secondary Schools | 3 |
| CISE 4378 | Content Literacy | 3 |
| CISE 4379 | Differentiated Pedagogy | 3 |
| CISE 4380 | Respon Of Pro Educator | 3 |
| Secondary Ed Courses - AGED | | |
| 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 |
| Minor. Not Required | | |
| Total Hours | | 136 |

- 1 Satisfies requirement for Core Curriculum Component Area II (Mathematics).
- 2 CHEM 1406 and CHEM 1407 (and CHEM 1411 and CHEM 1412) satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.
- 3 PLSC 2399 is recommended
- 4 ANSC 2360 is recommended

Notes

Students must earn a 2.75 minimum GPA in all Education coursework (SHSU and cumulative).

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

Students must earn a "C" or better in all agricultural sciences major coursework.

First Year

| Fall | Hours | Spring | Hours |
|---|-------|----------------------------------|-----------|
| Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix) | | 1 AGRI 1309 or CSTE 1330 | 3 |
| AGET 2303 | | 3 CHEM 1406 or 1411 ³ | 4 |
| AGRI 1131 | | 1 ENGL 1302 ¹ | 3 |
| ANSC 1319 & ANSC 1119 | | 4 HIST 1301 ⁴ | 3 |
| ENGL 1301 ¹ | | 3 MATH 1342 | 3 |
| MATH 1314 or 1332 ² | | 3 | |
| | | 15 | 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 IV (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav) | 3 |
| AGBU 2317 | | 3 Component Area VIII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii) | 3 |
| ANSC 3363 | | 3 ANSC 3373 | 3 |
| CHEM 1407 or 1412 ³ | | 4 POLS 2305 ⁵ | 3 |
| HIST 1302 ⁴ | | 3 PLSC 1307 & PLSC 1107 | 4 |
| | | 16 | 16 |

Third Year

| Fall | Hours | Spring | Hours | Summer | Hours |
|------------------------|-------|-------------------|-------|---|-----------|
| ANSC 3376 | | 3 ACOM 3360 | | 3 Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix) | 3 |
| AGBU 2389 | | 3 ANSC 4360 | | 3 PLSC 3440 | 4 |
| AGED 3320 | | 3 ANSC 4389 | | 3 AGED 3310 | 3 |
| CISE 3384 | | 3 CISE 4378 | | 3 AGED 4388 | 3 |
| POLS 2306 ⁵ | | 3 CISE 4380 | | 3 | |
| | | PLSC 4370 or 4383 | | 3 | |
| | | 15 | | 18 | 13 |

Fourth Year

| Fall | Hours | Spring | Hours |
|---|-------|-------------|-----------|
| AGET 4381 | | 3 AGED 4364 | 3 |
| Animal Production Elective ⁶ | | 3 AGED 4365 | 3 |
| ANSC 4394 | | 3 AGED 4366 | 3 |
| CISE 4364 | | 3 AGED 4394 | 3 |
| CISE 4379 | | 3 | |
| | | 15 | 12 |

Total Hours: 136

4 Bachelor of Science, Major in Animal Science with Teaching Certification

- 1 Satisfies Core Curriculum requirement for Component Area I (Communication).
- 2 Satisfies requirement for Core Curriculum Component Area II (Mathematics).
- 3 Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
- 4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- 5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- 6 Select one of the Animal Production Electives from the course in the below list.

Notes

Students must earn a 2.75 minimum GPA in all Education coursework (SHSU and cumulative).

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

Students must each a "C" or better in all agricultural science major coursework.

| Code | Title | Hours |
|--|-------------------------------|-------|
| Animal Production Elective Courses ⁶ | | |
| ANSC 4376 | Sheep & Goat Production & Mgt | 3 |
| ANSC 4380 | Beef Cattle Production & Mgmt | 3 |
| EQSC 2364 | Equine Science | 3 |
| WMGT 3381 | Game Animal Production | 3 |

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.