

BACHELOR OF SCIENCE, DOUBLE MAJOR IN EDUCATION AND INTERDISCIPLINARY AGRICULTURE

Agriculture, Food, and Natural Resources (AFNR) Teacher Certification

The primary emphasis of the teaching certification program is the preparation of secondary teachers of Agricultural, Food, and Natural Resources (AFNR). Students gain a broad background in the agricultural sciences along with professional preparation courses in agricultural education and secondary pedagogy. This comprehensive and diverse background prepares students for a wide variety of professional agricultural careers.

The teaching certification option can be chosen with any of the agricultural emphasis majors as shown. Students majoring in interdisciplinary agriculture, agricultural business, animal science, agricultural engineering technology, or plant and soil sciences who are seeking AFNR teacher certification select CISE as their minor.

All students seeking teaching certification must be advised each semester to ensure proper sequencing of classes.

Code	Title	Hours
Bachelor of Science, Double Major in Education and Interdisciplinary Agriculture		
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)		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) ¹		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
AGRI 1309 or CSTE 1330	Computers in Agriculture (or approved substitute) Introduction to Computers	3
CHEM 1406	Inorganic & Envir Chemistry ²	4
MATH 1314 or MATH 1332	Pre Calculus Algebra ³ College Mathematics	3
Education Major		
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
SPED 3301	Learn and Instruc Child W/Disa	3
TESL 4303	Teaching Eng As A Second Lang	3
Interdisciplinary Agriculture Major		
ACOM 3360	Communication Skills for Agriculturists	3
AGBU 2317	Principles of Agri Economics	3
AGBU 2389	Agribusiness Financl Analysis	3
AGED 3310	Teaching Ag Technology	3
AGED 3320	The Secondary Agriculture Education Program	3
AGED 4388	Secondary Agriculture Education Program Management	3
AGET 4381	Adv Agricultural Mechanics	3
AGET 2303	Intro to Ag Engineering Tech	3
AGRI 1131	Intro to Pro Leadership Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4

ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Mgt Techniques	3
Select 3 hours from Animal Production Electives:		3
ANSC 3376	Meat Science	
ANSC 4376	Sheep & Goat Production & Mgt	
ANSC 4380	Beef Cattle Production & Mgmt	
EQSC 2364	Equine Science	
WMGT 3381	Game Animal Production	
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 2399	Floral Design ⁴	3
PLSC 3440	Soil Science	4
PLSC 4370 or PLSC 3395	Forage Crops & Pasture Mgmt Plant Propagation Techniques	3
Secondary Ed Courses - AGED		
AGED 4364	Methods of Teaching Agricultural 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
Total Hours		127

- ¹ ANSC 2360 is recommended.
- ² CHEM 1406 satisfies the Core Curriculum requirement for Component Area II (Life and Physical Science) and the Degree Specific Requirement.
- ³ MATH 1314 or MATH 1332 satisfy Core Curriculum requirement for Component Area II (Mathematics).
- ⁴ PLSC 2399 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and the major.

Notes

Students must earn a 2.5 minimum GPA in all Education coursework (SHSU and cumulative).

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

Students must have a 2.75 GPA (overall or last 60 hours) for admissions to Educator Preparation.

Students must earn cumulative 2.0 minimum GPA in all Interdisciplinary Agriculture major coursework.

First Year

Fall	Hours	Spring	Hours
AGRI 1131		1 Component Area VIII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii) ⁵	3
ANSC 1319 & ANSC 1119		4 AGET 2303	3
ENGL 1301 ¹		3 ENGL 1302 ¹	3
HIST 1301 ²		3 HIST 1302 ²	3
KINE 2115, NGLI 1101, or ECON 1100 ³		1 PLSC 1307 & PLSC 1107	4
MATH 1314 or 1332 ⁴		3	
		15	16

Second Year

Fall	Hours	Spring	Hours
Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii)		4 Component Area IV (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv)	3
AGBU 2317		3 CISE 3384	3
AGRI 1309 or CSTE 1330		3 AGBU 2389	3
PLSC 2399 ⁶		3 CHEM 1406 ⁸	4
POLS 2305 ⁷		3 POLS 2306 ⁷	3
		16	16

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
AGET 4381		3 Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)		3 AGED 3310	3
AGED 3320		3 Animal Production Elective ⁹		3 AGED 4388	3
ANSC 3373		3 ANSC 4360			3
CISE 4380		3 CISE 4378			3
PLSC 3440		4 SPED 3301			3
		16		15	6

Fourth Year

Fall	Hours	Spring	Hours
ACOM 3360		3 AGED 4364	3
CISE 4364		3 AGED 4365	3
CISE 4379		3 AGED 4366	3
PLSC 4370 or 3395		3 AGED 4394	3
TESL 4303		3	
		15	12

Total Hours: 127

- ¹ Satisfies Core Curriculum requirement for Component Area I (Communications).
- ² Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- ³ Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
- ⁴ Satisfies Core Curriculum requirement for Component Area II (Mathematics).
- ⁵ ANSC 2360 is recommended.
- ⁶ Satisfies Core Curriculum requirement for Component Area V (Creative Arts) and the major.
- ⁷ Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- ⁸ Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
- ⁹ Select one of the Animal Production Elective courses from the below list.

Notes

Students must earn a 2.5 minimum GPA in all Education coursework (SHSU and cumulative).

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

Students must have a 2.75 GPA (overall or last 60 hours) for admissions to Educator Preparation.

Students must earn cumulative 2.0 minimum GPA in all Interdisciplinary Agriculture major coursework.

Code	Title	Hours
Animal Production Electives⁹		
ANSC 3376	Meat Science	3
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 with a Double Major in Education and in Interdisciplinary Agriculture is designed to provide graduates with the following marketable skills:

- Demonstrate technical knowledge and skills necessary for entry level Agriculture, Food, and Natural Resources teachers in Agricultural Business, Agricultural Communication, Agricultural Engineering Technology, Animal Science, and Plant and Soil Science.
- 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.)
- Use 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.