

BACHELOR OF SCIENCE, MAJOR IN PLANT AND SOIL SCIENCES WITH TEACHING CERTIFICATION

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

The primary emphasis of the teacher 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 and secondary pedagogy. This comprehensive background prepares students for a wide variety of professional agricultural careers.

The teacher 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 should select CISE as their minor.

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

Code	Title	Hours
Bachelor of Science, Major in Plant and Soil Sciences with Teaching Certification		
Core Curriculum (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		
ACOM 3360	Communication Skills for Agriculturists	3
AGRI 1309 or CSTE 1330	Computers in Agriculture (or approved substitute) Introduction to Computers	3
CHEM 1406	Inorganic & Envir Chemistry ²	4
CHEM 1407	Intro Organic and Biochemistry ²	4
MATH 1314 or MATH 1332	Pre Calculus Algebra (Core: Area II) ³ College Mathematics	3
MATH 1369 or STAT 1369	Elementary Statistics Elementary Statistics	3
Major Core for Certification		
AGBU 2317	Principles of Agri Economics	3
AGRI 1131	Intro to Pro Leadership Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 2395	Ornamental Plant Identification	3
PLSC 2399	Floral Design ⁴	3
PLSC 3398	Landscape Design I	3
PLSC 3440	Soil Science	4
PLSC 4370 or PLSC 3395	Forage Crops & Pasture Mgmt Plant Propagation Techniques	3
Plant and Soil Sciences Elective		3
Major		
AGBU 2389	Agribusiness Financl Analysis	3
AGED 3310	Teaching Ag Technology	3

AGED 3320	Interdiscip Agr Sci & Technol	3
AGED 4388	Agr Sci & Tech Program Mgt	3
AGET 2303	Intro to Ag Engineering Tech	3
AGET 4381	Adv Agricultural Mechanics	3
ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Mgt Techniques	3
ANSC or EQSC or WMGT Production Elective - Select one from the following:		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	
Minor (if required)		
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	Methds Tchg Agricultural Sci	3
AGED 4365	Std Tchng Agricultural Science	3
AGED 4366	Std Tchng Agricultural Science	3
AGED 4394	Ag. Ed. Learning Environments	3

Total Hours 133

² CHEM 1406 and CHEM 1407 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

³ MATH 1314 and MATH 1332 satisfy Core Curriculum requirement for Component Area II (Mathematics) as well as the Degree Specific requirement.

⁴ PLSC 2399 satisfies Core Curriculum requirement for Component Area V (Creative Arts).

¹ ANSC 2360 recommended.

First Year

Fall	Hours Spring	Hours
Component Area IX (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaix)	1 AGRI 1309 or CSTE 1330	3
AGRI 1131	1 ANSC 1319 & ANSC 1119	4
ENGL 1301 ¹	3 ENGL 1302 ¹	3
HIST 1301 ²	3 HIST 1302 ²	3
MATH 1314 or 1332 ³	3 POLS 2305 ⁴	3
PLSC 1307 & PLSC 1107	4	
	15	16

Second Year

Fall	Hours Spring	Hours
AGET 2303	3 Component Area VIII (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaviii) ⁷	3
PLSC 2399 ⁵	3 AGBU 2317	3
PLSC 2395	3 CHEM 1407 ⁶	4
CHEM 1406 ⁶	4 PLSC 3398	3
MATH 1369 or STAT 1369	3 POLS 2306 ⁴	3
	16	16

Third Year

Fall	Hours Spring	Hours Summer	Hours
AGBU 2389	3 ANSC 3373	3 Component Area IX (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaix)	3
AGED 3320	3 ANSC or EQSC or WMGT Production Elective ⁸	AGED 3310	3
AGET 4381	3 CISE 4378	3 AGED 4388	3
PLSC 3440	4 CISE 4380	3 ACOM 3360	3
CISE 3384	3 PLSC 4370 or 3395	3	
	16	12	12

Fourth Year

Fall	Hours Spring	Hours
Component Area IV (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaiiv)	3 AGED 4364	3
ANSC 4360	3 AGED 4365	3
CISE 4364	3 AGED 4366	3
CISE 4379	3 AGED 4394	3
PLSC Advanced Elective	3	
	15	12

Total Hours: 130

- 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 II (Mathematics).
- 4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

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5 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

6 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

7 ANSC 2360 recommended.

8 Select one from the following: ANSC 3376, ANSC 4376, ANSC 4380, EQSC 2364, WMGT 3381