

# Agricultural Science and Technology B.S. - Teacher Certification Option

## Core Curriculum Courses

See the Core Curriculum Requirements (<http://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

## Required courses in the major

AEC 2317	Agricultural Economics	
AEC 314	Farm Management	3
AG 1131	Intro To Agriculture	1
AG 392	GLB/Appld Ethics US World Ag	3
AGED 2301	Agricultural Education Fundamentals and Curriculum Design	3
AGED 371	Agricultural & Youth Leadershi	3
ALC 4312	Senior Portfolio in Agricultural Leadership and Communications ((Taken Spring Term of Graduating Year))	3
AMC 315	Agri Systms Technology Mgmt	3
AMC 423	Natural Resources Management	3
ANS 317	Livestock Management Techniques	3
ANS 1319	Introduction to Animal Science	3
ANS 1119	Introduction to Animal Science Laboratory	1
ANS 2319	Livestock Handling and Presentation	3
FDSC 1329	Principles of Food Science	3
or FDSC 318	Meat Technology	

Select one of the following sequences:

PLS 1315 & PLS 1115	Introduction to Horticulture and Introduction to Horticulture Laboratory	
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Or

PLS 1307 & PLS 1107	Introduction to Plant Science and Introduction to Plant Science Lab	
PLS 303	Introduction to Floral Design	3
PLS 309	Soil Science	3
PLS 329	Soil Science Laboratory	1

Plus AMc electives 6 sh from: 6

AMC 2303	Agricultural Welding Techniques	
AMC 424	Agricultural Safety	
AMC 425	Housing and Home Improvement	
AMC 426	Agri Power & Energy Management	
AMC 428	Laboratory Management in Agricultural Mechanization	
AMC 489	Independent Study	
AMC 497	Special Topics	

Plus PLS elective 3 sh from: 3

PLS 230	Ornamental Plant Identification	
PLS 2313	Economic Entomology	
PLS 305	Landscape Design	
PLS 306	Plant Propagation	
PLS 320	Soil Fert-Plant Nutrition	
PLS 323	Field Crops	
PLS 326	Forage and Pasture Crops	
PLS 328	Introduction to Range Management	
PLS 355	Interior Landscaping	
PLS 381	Plant Physiology	
PLS 417	Geospatial Mapping	
PLS 420	Crop Production Practicum	

PLS 430	Greenhouse Management	
PLS 450	Landscape Management	
PLS 455	Turfgrass Management	
PLS 489	Independent Study	
PLS 497	Special Topics	

**Required support courses (with a minimum grade of D)**

PSY 300	Learning Processes and Development	3
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Select one of the following sequences: \*

CHEM 1305 & CHEM 1105	Survey of General Chemistry and Experimental Survey of General Chemistry: Laboratory Section	
Or		
CHEM 1311 & CHEM 1111 & CHEM 101	General and Quantitative Chemistry I and General and Quantitative Chemistry Laboratory I and General Chemistry Tutorial I	

**Required certification courses**

RDG 380	Comprehension and Vocabulary in Middle and High Schools	3
SED 300	Teaching Profession	3
AGED 404	Supervised Experience Programs	3
AGED 465	Student Tch Secondary Sch	6
AGED 470	Methods of Teaching Agricultural Science and Technology	3
AGED 471	The Program of Instruction in Agricultural Science and Technology	3
ALC 4301	Professional Presentations in Agricultural Leadership, Education, and Communications	3

**Total Hours** **120**

\* This course fulfills the Core Curriculum Requirements