

UNIVERSITY STUDIES - BS, SCIENCE FOR SECONDARY TEACHING CONCENTRATION

The BS in University Studies, Science for Secondary Teaching area of concentration consists of courses that give students desiring secondary-school teaching credentials a solid foundation in life, earth and physical sciences. In particular, the courses chosen encompass the science composite areas test by the State of Texas and TExES. These are the courses currently required for the science composite certificate.

Program Requirements

Code	Title	Semester Credit Hours
ATMO 201	Weather and Climate ¹	3
CHEM 119	Fundamentals of Chemistry I	4
CHEM 120	Fundamentals of Chemistry II	4
PHYS 202	College Physics ¹	4
Select one of the following: ¹		4
ASTR 101	Basic Astronomy	
& ASTR 102and Observational Astronomy		
ASTR 111	Overview of Modern Astronomy	
Select one of the following: ¹		4
PHYS 201	College Physics	
PHYS 206	Newtonian Mechanics for	
& PHYS 226Engineering and Science		
and Physics of Motion Laboratory		
for the Sciences		
Select one of the following: ¹		4
GEOL 101	Principles of Geology	
& GEOL 102and Principles of Geology		
Laboratory		
GEOG 203	Planet Earth	
& GEOG 213and Planet Earth Lab		
Select 12 hours from the following: ²		12
BIOL 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/biol/)		
CHEM 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/chem/)		
GEOG 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/geog/)		
GEOL 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/geol/)		
OCNG 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/ocng/)		
PHYS 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/phys/)		

University and College Requirements

ATMO 202	Weather and Climate Laboratory	1
BIOL 111	Introductory Biology I	4
BIOL 112	Introductory Biology II	4
POLS 206	American National Government ³	3
POLS 207	State and Local Government ³	3

Select one of the following:		4
MATH 147	Calculus I for Biological Sciences	
MATH 151	Engineering Mathematics I	
MATH 171	Calculus I	
Select one of the following:		3
MATH 148	Calculus II for Biological Sciences	
MATH 152	Engineering Mathematics II	
MATH 172	Calculus II	
STAT 201	Elementary Statistical Inference	
Select one of the following:		3
INST 210	Understanding Special Populations	
INST 222	Foundations of Education in a Multicultural Society	
SOCI 217	Introduction to Race and Ethnicity	
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		6
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		6
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)		3
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)		3
Minor 1		15-18
Minor 2		15-18
General electives ⁴		2-8
Total Semester Credit Hours		120

¹ Must make a grade of C or better.

² Selection should be from courses from which prerequisites have been satisfied.

³ Completion of four semesters of upper-level ROTC may be substitute for three hours of this requirement.

⁴ Select from any 100-499 not used elsewhere.

Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) courses and 3 hours of Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) courses. A course satisfying a Core category, a college/department requirement, or a general elective can be used to satisfy this requirement. See academic advisor.