

BACHELOR OF SCIENCE WITH A MAJOR IN SCIENCE WITH GRADES 7-12 CERTIFICATION (BS)

Degree Requirements Hours Required

A minimum of 120 semester credit hours (SCH): 45 hours must be advanced, and fulfillment of degree requirements as specified in the "Requirements for Graduation (<https://catalog.tamui.edu/undergraduate-information/academic-regulations/>)" section of this catalog.

Requirements

Code	Title	Semester Credit Hours
[University Core Curriculum] (https://catalog.tamui.edu/appendix-a-core-curriculum-optional-course-information/)		
Select 42 SCH as outlined in the suggested plans and as specified in the "Requirements for Graduation"		42
Math		
MATH 1342	Introductory Statistics	3
Select 1 SCH excess from core		1
Major		
BIOL 1306 & BIOL 1106	Principles of Biology I and Principles of Biology I-Lab (taken as part of the core)	
CHEM 1311	General Chemistry I (taken as part of the core)	
Earth		
GEOL 1303 & GEOL 1103	Intro to Physical Geology and Intro to Physical Geology Lab	4
Life Science		
Select 4 SCH from the following:		4
BIOL 1111 & BIOL 1311	Principles of Biology II-Lab and Principles of Biology II	
BIOL 1413	Principles of Biology III	
BIOL 2421	General Microbiology	
BIOL 3406	Evolution	4
BIOL 3410	Ecology	4
BIOL 3412	Cell Biology	4
BIOL 3413	Intro to Genetics	4
Physical Science		
PHYS 1301 & PHYS 1101	General Physics I and General Physics I Lab	4
PHYS 1302 & PHYS 1102	General Physics II and General Physics II Lab	4
Chemical Science		
CHEM 1111	General Chemistry I-Lab	1

CHEM 1412	General Chemistry II	4
CHEM 2423	Organic Chemistry I	4
Additional Requirement		
Select 4 SCH from any advanced BIOL, CHEM, GEOL		4
Professional Education Core		
EDCI 1102	Intro to Teaching Profession	1
EDCI 2224	Cultural Foundations of Ed	2
EDCI 3200	Survey of Content Know & Exper	2
EDCI 3301	Assessment for Instruc Design	3
EDCI 3302	Teaching Eng Lang Learners	3
EDCI 3315	Impl Eff Inst Strat Div Lrnrs	3
EDCI 4310	Engaging Learners	3
EDCI 4693	Clinical Teaching	6
EDSE 4350	Inc Pract Ch&Yth W/Disablt	3
Support Area		
EDRD 3320	Content Reading	3

Total Semester Credit Hours 120

Four-Year Degree Plan

Following is a suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment; responsible for reviewing the **Program of Study Requirements**, meeting all course prerequisites, and **writing intensive course (WIN)** requirements for graduation. See Academic Regulations-Undergraduate online. (<https://catalog.tamui.edu/undergraduate-information/academic-regulations/>)

Freshman

Fall	Semester Credit Hours	
BIOL 1306	Principles of Biology I	3
BIOL 1106	Principles of Biology I-Lab	1
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry I-Lab	1
ENGL 1301	English Composition I	3
HIST 1301	The US to 1877	3
PSCI 2305	American National Government	3
UNIV 1201	Learn a Global Context I	2
Semester Credit Hours		19

Spring

BIOL - Biology Elective		4
CHEM 1412	General Chemistry II	4
EDCI 1102	Intro to Teaching Profession	1
MATH 2412	Pre-Calculus	4
UNIV 1302	Signature Course	3
Semester Credit Hours		16

Sophomore

Fall	Semester Credit Hours	
CHEM 2423	Organic Chemistry I	4
EDCI 2224	Cultural Foundations of Ed	2
HIST 1302	The US Since 1877	3
PHYS 1301	General Physics I	3

PHYS 1101	General Physics I Lab	1
PSYC 2314	Lifespan Growth&Development	3
Semester Credit Hours		16

Spring

MATH 1342	Introductory Statistics	3
PHYS 1302	General Physics II	3
PHYS 1102	General Physics II Lab	1
EDCI 3200	Survey of Content Know & Exper	2
PSCI 2306	American State Government	3
ENGL 1302	English Composition II	3
Semester Credit Hours		15

Junior

Fall

BIOL 3413	Intro to Genetics	4
EDCI 3301	Assessment for Instruc Design	3
EDCI 3302	Teaching Eng Lang Learners	3
GEOL 1303	Intro to Physical Geology	3
GEOL 1103	Intro to Physical Geology Lab	1
Language, Philosophy & Culture		3
Semester Credit Hours		17

Spring

BIOL 3410	Ecology	4
BIOL 3412	Cell Biology	4
EDRD 3320	Content Reading	3
Creative Arts		3
Semester Credit Hours		14

Senior

Fall

BIOL 3406	Evolution	4
EDCI 3315	Impl Eff Inst Strat Div Lrnrs	3
EDCI 4310	Engaging Learners	3
Science Elective		4
Semester Credit Hours		14

Spring

EDCI 4693	Clinical Teaching	6
EDSE 4350	Inc Pract Ch&Yth W/Disablts	3
Semester Credit Hours		9

Total Semester Credit Hours 120

* Students must apply for admission to the College of Education while enrolled in EDCI 3200.

Students are admitted to student teaching only after passing the certification exam to teach secondary science.

Actual degree plans may vary depending on availability of courses in a given semester.

Some courses may require prerequisites not listed.