

BACHELOR OF ARTS WITH A MAJOR IN BIOLOGY WITH GRADES 7-12 CERTIFICATION (BA)

CIP: 26.0101.00

Hours Required

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

Code	Title	Semester Credit Hours
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[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
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Math

MATH 1342	Introductory Statistics	3
Select 1 SCH excess from core		1

Major

BIOL 1306	Principles of Biology I	
& BIOL 1106	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	Intro to Physical Geology	4
& GEOL 1103	and Intro to Physical Geology Lab	

Life Science

Select 4 SCH from the following:		4
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BIOL 1111	Principles of Biology II-Lab	
& BIOL 1311	and Principles of Biology II	
BIOL 1413	Principles of Biology III	
BIOL 2421	General Microbiology	

Required Upper Level Courses:

BIOL 3406	Evolution	4
BIOL 3410	Ecology	4
BIOL 3412	Cell Biology	4
BIOL 3413	Intro to Genetics	4

Physical Science

PHYS 1301	General Physics I	4
& PHYS 1101	and General Physics I Lab	
PHYS 1302	General Physics II	4
& PHYS 1102	and General Physics II Lab	

Chemical Science

CHEM 1111	General Chemistry I-Lab	1
CHEM 1412	General Chemistry II	4

CHEM 2423	Organic Chemistry I	4
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Additional Requirement

Select 4 SCH from any advanced BIOL, CHEM, GEOL	4
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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 Lnrs	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
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Total Semester Credit Hours	120
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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		
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 Lnrs	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/Disabls	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.