

BACHELOR OF SCIENCE WITH A MAJOR IN BIOLOGY (BS)

Degree Requirements

CIP: 26.0101.00

Hours Required

124 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.

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 Elective		
MATH 1342	Introductory Statistics	3
Select 1 SCH surplus credit from core		1
Major		
BIOL 1306 & BIOL 1106	Principles of Biology I and Principles of Biology I-Lab (taken as part of the core)	
BIOL 1311	Principles of Biology II (taken as part of the core)	
BIOL 1111	Principles of Biology II-Lab	1
BIOL 1413	Principles of Biology III	4
BIOL 2421	General Microbiology	4
BIOL 3406	Evolution	4
BIOL 3410	Ecology	4
BIOL 3412	Cell Biology	4
BIOL 3413	Intro to Genetics	4
BIOL 4170	Biology Seminar	1
Additional Requirements		
Select 22 SCH from the following from any additional BIOL course at the 3000-4000 level or from any ENSC course at the 3000- 4000 level, except ENSC 4340. BIOL 4173-BIOL 4473 may be repeated for up to 8 SCH of credit within the degree program.		22
Supporting Sciences Curriculum		
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry I-Lab	1
CHEM 1412	General Chemistry II	4
CHEM 2423	Organic Chemistry I	4
CHEM 2425	Organic Chemistry II	4
PHYS 1301	General Physics I	3
PHYS 1101	General Physics I Lab	1
PHYS 1302	General Physics II	3

PHYS 1102	General Physics II Lab	1
Electives		
Select 6 SCH at the 3000-4000 level		6
Total Semester Credit Hours		124

* BIOL 4173-4473 may be repeated for up to 8 SCH of credit within the degree program.

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
MATH 2412	Pre-Calculus	4
UNIV 1201	Learn a Global Context I	2
Semester Credit Hours		17

Spring

BIOL 1111	Principles of Biology II-Lab	1
BIOL 1311	Principles of Biology II	3
CHEM 1412	General Chemistry II	4
ENGL 1302	English Composition II	3
UNIV 1302	Signature Course	3
Semester Credit Hours		14

Sophomore

Fall	Semester Credit Hours	
BIOL 1413	Principles of Biology III	4
CHEM 2423	Organic Chemistry I	4
HIST 1301	The US to 1877	3
PSCI 2305	American National Government	3
MATH 1342	Introductory Statistics	3
Semester Credit Hours		17

Spring

BIOL 2421	General Microbiology	4
CHEM 2425	Organic Chemistry II	4
HIST 1302	The US Since 1877	3
PSCI 2306	American State Government	3
Language, Philosophy & Culture		3
Semester Credit Hours		17

Junior

Fall

BIOL 3406	Evolution	4
BIOL 3413	Intro to Genetics	4
PHYS 1301	General Physics I	3
PHYS 1101	General Physics I Lab	1
Creative Arts		3
Semester Credit Hours		15

Spring

BIOL 3410	Ecology	4
BIOL 3412	Cell Biology	4
PHYS 1302	General Physics II	3
PHYS 1102	General Physics II Lab	1
Soc/Behavioral Science		3
Semester Credit Hours		15

Senior

Fall

BIOL - Restricted Biology Elec		4
BIOL - Restricted Biology Elec		4
BIOL - Restricted Biology Elec		4
Advanced Elective		3
Semester Credit Hours		15

Spring

BIOL 4170	Biology Seminar	1
BIOL - Restricted Biology Elec		4
BIOL - Restricted Biology Elec		4
BIOL - Restricted Biology Elec		2
Advanced Elective		3
Semester Credit Hours		14

Total Semester Credit Hours **124**

BIOL 4173-4473 may be repeated for up to 8 SCH of credit within the degree program.

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

Some courses may require prerequisites not listed.