

BACHELOR OF ARTS WITH A MAJOR IN BIOLOGY (BA)

Degree Requirements

CIP: 26.0101.00

Hours Required

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

Requirements

Code	Title	Semester Credit Hours
[University Core Curriculum] (https://catalog.tamtu.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 from core		1
Major		
BIOL 1306 & BIOL 1106	Principles of Biology I and Principles of Biology I-Lab (taken as part of the core)	
Select 8 SCH from the following:		8
BIOL 1311 & BIOL 1111	Principles of Biology II and Principles of Biology II-Lab	
BIOL 1413	Principles of Biology III	
BIOL 2421	General Microbiology	
BIOL 3410	Ecology	4
BIOL 3413	Intro to Genetics	4
BIOL 4170	Biology Seminar	1
Advanced Biology electives		24
Select 24 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.		
Minor		
Select a minimum of 18 SCH from one discipline at least twelve of which must be at the 3000-4000 level. See Appendix C. Instead of a minor, students may complete 18 SCH of electives, 12 SCH of which must be at the 3000-4000 level, from any discipline, except the major field, outside the College of Nursing and Health Sciences		18
Supporting Sciences Curriculum		
CHEM 1311	General Chemistry I (taken as part of the core)	
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 & PHYS 1101	General Physics I and General Physics I Lab	4
General Elective		
Select 3 SCH at any level. PHYS 1302 recommended for students applying for medical school or other advanced programs requiring physics. PHYS 1102, the co-requisite lab, will be outside the degree program.		3
Total Semester Credit Hours		125

* For Chemistry minors, CHEM 2423 will count in the minor and not the supporting sciences. The supporting course (4 SCH) will be replaced with the third course from biology electives (BIOL 1311/BIOL 1111 and BIOL 2421) or an additional upper-level (3000-4000) chemistry course.

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.tamtu.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
PSCI 2305	American National Government	3
UNIV 1201	Learn a Global Context I	2
Semester Credit Hours		16

Spring

BIOL - Biology Elective	4	
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	
CHEM 2423	Organic Chemistry I	4
BIOL - Biology Elective	4	
HIST 1301	The US to 1877	3
PSCI 2306	American State Government	3
MATH 2412	Pre-Calculus	4
Semester Credit Hours		18

Spring

CHEM 2425	Organic Chemistry II	4
MATH 1342	Introductory Statistics	3
HIST 1302	The US Since 1877	3

Soc/Behavioral Science	3
Language, Philosophy & Culture	3
Semester Credit Hours	16

Junior

Fall

BIOL 3413	Intro to Genetics	4
BIOL 4170	Biology Seminar	1
PHYS 1301	General Physics I	3
PHYS 1101	General Physics I Lab	1
Minor/General Elective		3
Creative Arts		3
Semester Credit Hours		15

Spring

BIOL 3410	Ecology	4
BIOL - Advanced Biology Elec		4
General Elective		3
Minor/General Elective		3
Semester Credit Hours		14

Senior

Fall

BIOL - Advanced Biology Elec		4
BIOL - Advanced Biology Elec		4
Adv Minor/General Elective		3
Adv Minor/General Elective		3
Adv Minor/General Elective		3
Semester Credit Hours		17

Spring

BIOL - Advanced Biology Elec		4
BIOL - Advanced Biology Elec		4
BIOL - Advanced Biology Elec		4
Adv Minor/General Elective		3
Semester Credit Hours		15

Total Semester Credit Hours **125**

¹Biology electives, select 8 SCH from BIOL 1311 and BIOL 1111, BIOL 1413 or BIOL 2421.

²Advanced Biology electives, select 24 SCH from any additional BIOL course at the 3000-4000 level or from any ENSC course at the 3000-4000 level except ENSC 4340. BIOL 4173-4473 may be repeated for up to 8 SCH for credit within the degree.

³General elective, 3 SCH at any level. PHYS 1302 recommended for students applying for medical school or other advanced programs requiring physics. PHYS 1102, the co-requisite lab, will be outside the degree program.

*** For Chemistry minors, CHEM 2423 will count in the minor and not the supporting sciences. The supporting course (4 SCH) will be replaced with the third course from biology electives (BIOL 1311/BIOL 1111, BIOL 1413, and BIOL 2421) or an additional upper-level (3000-4000) chemistry course.

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

Some courses may require prerequisites not listed.