

BIOLOGY, BACHELOR OF SCIENCE

Requirements

General Requirements

Code	Title	Credits
Core Curriculum		42
Required Support Courses		22
Major (Required) Courses		37-39
Electives or Minor Required Courses		17-19
Total Credits		120

- 36 upper-division credit hours required for degree
- 25% of courses must be taken at A&M-SA for degree
- CIP Code: 26.0101

All students must complete the University's Core Curriculum (<https://catalog.tamusa.edu/undergraduate/academic-policies-procedures/core-curriculum/>) and the specific requirements of the major. In some cases, a course that is required for a major may also be counted towards the Core Curriculum.

Code	Title	Credits
Core Curriculum ¹		
ENGL 1301	Composition I	3
ENGL 1302	Composition II ⁶	3
or ENGL 2311	Technical Writing	
MATH 2313	Calculus I	3
BIOL 1306	Gen Biology I-Attr Living Sys ²	3
BIOL 1307	Gen Biology II-Biol Organisms ²	3
Lang/Phil/Culture		3
Creative Arts		3
American History		3
American History		3
Government/Political Science		3
Government/Political Science		3
Social & Behavioral Sciences		3
CHEM 1311	General Chemistry I	3
CHEM 1312	General Chemistry II	3
Subtotal:		42
Required Support Courses		
UNIV 1301	First Year Seminar	3
MATH 2113	Calculus I Lab	1
CHEM 1111	General Chemistry Lab I	1
CHEM 1112	General Chemistry Lab II	1
CHEM 2323 & CHEM 2123	Organic Chemistry I and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II and Organic Chemistry II Lab	4
PHYS 1301 & PHYS 1101	General Physics I and General Physics Lab I	4
PHYS 1302 & PHYS 1102	General Physics II and General Physics Lab II	4

Subtotal:		22
Major (Required) Courses ³		
BIOL 1106	General Biology I Lab ²	1
BIOL 1107	General Biology II - Lab ²	1
BIOL 2415	Statistics in Biology & Medicn	4
BIOL 2411	Genetics ²	4
BIOL 3402	Evolution	4
BIOL 2421	Introduction to Microbiology	4
or BIOL 2431	Cell Biology	
BIOL 3407	Ecology	4
Select one of the following:		4
BIOL 3408	Animal Physiology	
BIOL 3409	Cellular Physiology	
BIOL 4411	Appl Plant Physiology,Grwth/Dv	
Select one of the following:		1
BIOL 4101	Seminar-Integrative Biology	
BIOL 4102	Seminar-Cell/Molecular Biology	
BIOL 4103	Seminar-Zoology	
BIOL 4104	Seminar-Ecology	
BIOL advanced elective with Lab		4
BIOL advanced electives		6-8
Subtotal:		37-39
Electives or Minor Required Courses ^{4,5}		
As needed to complete 120 credit total hours		17-19
Subtotal:		17-19
Total Credits		120

1 Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

2 An earned letter grade of C is required for this degree

3 2.0 overall GPA for major

4 and the 36 upper-division credit hours required for degree

5 If minor is chosen, at least 10 hours must be upper-division. 2.0 overall GPA for minor.

6 A&M-SA students are required to take ENGL 1302 Composition II. Credit for ENGL 2311 Technical Writing will be accepted for transfer students.

Plan of Study

This suggested plan of study is intended to be used as a guide in conjunction with official degree requirements outlined in the catalog. While this plan demonstrates a course of study that covers eight semesters, each student's academic path is unique and your timeline may look different. Students should regularly consult with academic advisors as they plan their course schedules as course offerings may vary. This suggested order of courses assumes the following: 1) students come in TSI compliant for all categories 2) students come in as a freshmen with no previous credits earned 3) students pass all courses the first time. 4) all courses are offered during the semester suggested NOTE: If any of the above assumptions are not met, we encourage students to meet with their advisors. The most important component of this suggested schedule of courses is the order of the BIOL, CHEM, and MATH courses.

First Year

First Semester		Credits
BIOL 1306	Gen Biology I-Attr Living Sys	3
BIOL 1106	General Biology I Lab	1
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry Lab I	1
ENGL 1301	Composition I	3
HIST 1301	US History to 1865	3
UNIV 1301	First Year Seminar	3
Credits		17

Second Semester

BIOL 1307	Gen Biology II-Biol Organisms	3
BIOL 1107	General Biology II - Lab	1
CHEM 1312	General Chemistry II	3
CHEM 1112	General Chemistry Lab II	1
ENGL 2311	Technical Writing	3
HIST 1302	US History from 1865	3
Credits		14

Second Year**First Semester**

BIOL 2411	Genetics	4
CHEM 2323	Organic Chemistry I	3
CHEM 2123	Organic Chemistry I Lab	1
MATH 2313	Calculus I	3
MATH 2113	Calculus I Lab	1
GOVT 2305	Federal Government	3
Credits		15

Second Semester

BIOL 2421 or BIOL 2431	Introduction to Microbiology or Cell Biology	4
BIOL 2415	Statistics in Biology & Medicn	4
CHEM 2325	Organic Chemistry II	3
CHEM 2125	Organic Chemistry II Lab	1
GOVT 2306	Texas Government	3
Credits		15

Third Year**First Semester**

BIOL 3402	Evolution	4
BIOL 3408 or BIOL 3409 or BIOL 4411	Animal Physiology or Cellular Physiology or Appl Plant Physiology,Grwth/Dv	4
PHYS 1301	General Physics I	3
PHYS 1101	General Physics Lab I	1
Language/Philosophy/Cultural Studies		3
Credits		15

Second Semester

BIOL 3407	Ecology	4
BIOL Advanced Elective w/ Lab		4
PHYS 1302	General Physics II	3
PHYS 1102	General Physics Lab II	1
Creative Arts		3
Credits		15

Fourth Year**First Semester**

BIOL Advanced Elective (3 or 4)		4
BIOL 4101	Seminar-Integrative Biology	1
or BIOL 4102	or Seminar-Cell/Molecular Biology	
or BIOL 4103	or Seminar-Zoology	
or BIOL 4104	or Seminar-Ecology	
BIOL Advanced Elective (3 or 4)		4
Advanced Elective (BIOL or other)		3
Social/Behavioral Science		3
Credits		15

Second Semester

Advanced Elective (BIOL w/Lab suggested)		4
Advanced Elective (BIOL w/Lab suggested)		4
Advanced Elective		3
Advanced Elective		3
Credits		14
Total Credits		120