

# BIOLOGY, BACHELOR OF ARTS

## Requirements

### General Requirements

Code	Title	Credits
Core Curriculum		42
Required Support Courses		19
Major (Required) Courses		37-39
Minor Required Courses		18
Electives		2-4
<b>Total Credits</b>		<b>120</b>

- 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
<b>Core Curriculum</b> <sup>1</sup>		
ENGL 1301	Composition I	3
ENGL 1302	Composition II <sup>6</sup>	3
or ENGL 2311	Technical Writing	
MATH 2312	Pre-Calculus	3
BIOL 1306	Gen Biology I-Attr Living Sys <sup>2</sup>	3
BIOL 1307	Gen Biology II-Biol Organisms <sup>2</sup>	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
<b>Required Support Courses</b>		
UNIV 1301	First Year Seminar	3
Foreign Language <sup>3</sup>		3
Foreign Language <sup>3</sup>		3
CHEM 1111	General Chemistry Lab I	1
CHEM 1112	General Chemistry Lab II	1
CHEM 2323	Organic Chemistry I	4
& CHEM 2123	and Organic Chemistry I Lab	
CHEM 2325	Organic Chemistry II	4
& CHEM 2125	and Organic Chemistry II Lab	
Subtotal:		19
<b>Major (Required) Courses</b> <sup>4</sup>		

BIOL 1106	General Biology I Lab <sup>2</sup>	1
BIOL 1107	General Biology II - Lab <sup>2</sup>	1
BIOL 2415	Statistics in Biology & Medicin	4
BIOL 2411	Genetics <sup>2</sup>	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 electives		10-12
Subtotal:		37-39
<b>Minor Required Courses</b> <sup>5</sup>		
At least 10 hours must be upper-division		18
Subtotal:		18
<b>Electives</b>		
As needed to complete 120 credit total hours and the 36 upper-division credit hours required for degree		2-4
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> 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.

<sup>2</sup> An earned letter grade of C is required for this degree

<sup>3</sup> must be in same language

<sup>4</sup> 2.0 overall GPA for major

<sup>5</sup> 2.0 overall GPA for minor

<sup>6</sup> 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 as TSI compliant for all categories 2) students come in as 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.*

<b>First Year</b>		
<b>First Semester</b>		<b>Credits</b>
BIOL 1306	Gen Biology I-Attr Living Sys	3
BIOL 1106	General Biology I Lab	1
ENGL 1301	Composition I	3
MATH 2312	Pre-Calculus	3
HIST 1301	US History to 1865	3
UNIV 1301	First Year Seminar	3
<b>Credits</b>		<b>16</b>
<b>Second Semester</b>		
BIOL 1307	Gen Biology II-Biol Organisms	3
BIOL 1107	General Biology II - Lab	1
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry Lab I	1
ENGL 2311 or ENGL 1302	Technical Writing or Composition II	3
HIST 1302	US History from 1865	3
<b>Credits</b>		<b>14</b>
<b>Second Year</b>		
<b>First Semester</b>		
BIOL 2411	Genetics	4
CHEM 1312	General Chemistry II	3
CHEM 1112	General Chemistry Lab II	1
BIOL 2415	Statistics in Biology & Medicn	4
Foreign Language		3
<b>Credits</b>		<b>15</b>
<b>Second Semester</b>		
BIOL 2421 or BIOL 2431	Introduction to Microbiology or Cell Biology	4
BIOL 3402	Evolution	4
CHEM 2323	Organic Chemistry I	3
CHEM 2123	Organic Chemistry I Lab	1
Foreign Language		3
<b>Credits</b>		<b>15</b>
<b>Third Year</b>		
<b>First Semester</b>		
BIOL 3407	Ecology	4
CHEM 2325	Organic Chemistry II	3
CHEM 2125	Organic Chemistry II Lab	1
GOVT 2305	Federal Government	3
Creative Arts		3
<b>Credits</b>		<b>14</b>
<b>Second Semester</b>		
BIOL Physiology Requirement		4
BIOL 3408 or BIOL 3409 or BIOL 4411	Animal Physiology or Cellular Physiology or Appl Plant Physiology,Grwth/Dv	
BIOL Advanced Elective (3 or 4)		4
GOVT 2306	Texas Government	3
Philosophy/Cultural Studies		3

Minor Required Course		3
<b>Credits</b>		<b>17</b>
<b>Fourth Year</b>		
<b>First Semester</b>		
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 (or other upper division course)		3
Social/Behavioral Science		3
Minor Required Course (upper division)		3
Minor Required Course (upper division)		3
<b>Credits</b>		<b>17</b>
<b>Second Semester</b>		
BIOL Advanced Elective		3-4
BIOL Advanced Elective (or upper division course)		3-4
Minor Required Course (upper division)		3
Minor Required Course (upper division)		3
<b>Credits</b>		<b>12-14</b>
<b>Total Credits</b>		<b>120-122</b>