BIOLOGY CONCENTRATION IN ZOOLOGY, BACHELOR OF **SCIENCE**

Requirements **General Requirements**

Code	Title	Credits
Core Currico	42	
Required Su	upport Courses	22
Major (Required) Courses		37-39
Concentrati	ion Required Courses	15-16
Electives		1-4
Total Credit	ts	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/corecurriculum/) 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		
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 ¹	3
BIOL 1307	Gen Biology II-Biol Organisms ¹	3
Lang/Phil/Culture	2	3
Creative Arts		3
American History		3
American History		3
Government/Polit	tical Science	3
Government/Political Science		
Social & Behavioral Sciences		
CHEM 1311	General Chemistry I	3
CHEM 1312	General Chemistry II	3
Subtotals:		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	General Physics I	4
& PHYS 1101	and General Physics Lab I	
PHYS 1302	General Physics II	4
& PHYS 1102	and General Physics Lab II	20
Subtotals:	2	22
Major (Required)		
BIOL 1106	General Biology I Lab	1
BIOL 1107	General Biology II - Lab ¹	1
BIOL 2415	Statistics in Biology & Medicn	4
BIOL 2411	Genetics ¹	4
BIOL 3402	Evolution	4
BIOL 2421	Introduction to Microbiology	4
or BIOL 2431	Cell Biology	
BIOL 3407	Ecology	4
BIOL 3408	Animal Physiology	4
Select one of the		1
BIOL 4101	Seminar-Integrative Biology	
BIOL 4102	Seminar-Cell/Molecular Biology	
BIOL 4103	Seminar-Zoology	
BIOL 4104	Seminar-Ecology	
BIOL Advanced e	lective with lab ⁴	4
BIOL advanced electives ⁵		6-8
Subtotals:		37-39
Concentration Re	equired Courses	
BIOL 3401	Invertebrate Zoology	4
BIOL 3405	Vertebrate Zoology	4
Select two of the	following upper-division electives	7-8
BIOL 3375	Applied Entomology	
BIOL 3406	Animal Behavior	
BIOL 4409	Biology of Disease Vectors	
BIOL 4425	Ornithology	
BIOL 4427	Herpetology	
BIOL 4429	Mammalogy	
BIOL 4430	Parasitology	
BIOL 4431	Ichthyology	
BIOL 4432	Primatology	
Subtotals:	<i>,</i>	15-16
Electives		
As needed to complete 120 credit hours		
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An earned letter grade of C is required

Total Credits

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

120

^{2.0} overall GPA for major

Interdisciplinary, Cell & Molec, Zoology, or Ecology topics respectively

Must be fulfilled by a concentration advance elective

Can be fulfilled any advanced electives

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

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First Semester		Credits
BIOL 1306	Gen Biology I-Attr Living Sys	3
BIOL 1106	General Biology I Lab	1
CHEM 1111	General Chemistry Lab I	1
CHEM 1311	General Chemistry I	3
ENGL 1301	Composition I	3
HIST 1301	US History to 1865	3
UNIV 1301	First Year Seminar	3
	Credits	17
Second Semeste	r	
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 Semeste	r	
BIOL 2421	Introduction to Microbiology	4
or BIOL 2431	or Cell Biology	
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	Animal Physiology	4
or BIOL 4411	or Appl Plant Physiology,Grwth/Dv	
PHYS 1301	General Physics I	3
PHYS 1101	General Physics Lab I	1
Language/Philos	ophy/Cultural Studies	3
	Credits	15

Second Semester

	Total Credits	120
	Credits	14
Advanced Elective	e (Any BIOL is suggested, but can be others)	3
Advanced Elective	e (Any BIOL is suggested, but can be others)	3
BIOL Advanced E	lective (Can be fulfilled by any BIOL course)	4
BIOL Advanced Elist)	lective (Must be from concentration required	4
Second Semester	r	
	Credits	15
Social/Behaviora	Science	3
BIOL Advanced E	lective (Can be any BIOL)	3
BIOL Advanced El course)	lective w/Lab (Can be fulfilled by any BIOL	4
BIOL 4101 or BIOL 4102 or BIOL 4103 or BIOL 4104	Seminar-Integrative Biology or Seminar-Cell/Molecular Biology or Seminar-Zoology or Seminar-Ecology	1
BIOL 3401 or BIOL 3405	Invertebrate Zoology or Vertebrate Zoology	4
First Semester		
Fourth Year		
	Credits	15
Creative Arts	,	3
PHYS 1102	General Physics Lab II	1
PHYS 1302	General Physics II	3
BIOL 3401 or BIOL 3405	Invertebrate Zoology or Vertebrate Zoology	4
BIOL 3407	Ecology	4