BIOLOGY CONCENTRATION IN ZOOLOGY, BACHELOR OF SCIENCE

Requirements General Requirements

Code	Title	Credits
Core Currico	42	
Required Su	upport Courses	22
Major (Requ	uired) Courses	37-39
Concentrati	ion Required Courses	15-16
Electives		1-4
Total Credit	ts	120

· 36 upper-division credit hours required for degree

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- · 25% of courses must be taken at A&M-SA for degree
- · CIP Code: 26.0101

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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		
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		3
Creative Arts		3
American History		3
American History		3
Government/Political Science		3
Government/Political Science		3
Social & Behavior	al Sciences	3
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	22
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	following: 3	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		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:		15-16
Electives		
As needed to complete 120 credit hours		

1 An earned letter grade of C is required

Total Credits

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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 2.0 overall GPA for major

³ Interdisciplinary, Cell & Molec, Zoology, or Ecology topics respectively

^I Must be fulfilled by a concentration advance elective

⁵ 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

	Credits	15
Language/Philos	ophy/Cultural Studies	3
PHYS 1101	General Physics Lab I	1
PHYS 1301	General Physics I	3
or BIOL 4411	or Appl Plant Physiology,Grwth/Dv	
BIOL 3408	Animal Physiology	4
BIOL 3402	Evolution	4
First Semester		
Third Year		
	Credits	15
GOVT 2306	Texas Government	3
CHEM 2125	Organic Chemistry II Lab	1
CHEM 2325	Organic Chemistry II	3
BIOL 2415	Statistics in Biology & Medicn	4
BIOL 2421 or BIOL 2431	Introduction to Microbiology or Cell Biology	4
Second Semeste	r	
	Credits	15
GOVT 2305	Federal Government	3
MATH 2113	Calculus I Lab	1
MATH 2313	Calculus I	3
CHEM 2123	Organic Chemistry I Lab	1
CHEM 2323	Organic Chemistry I	3
BIOL 2411	Genetics	4
First Semester		
Second Year		
	Credits	14
HIST 1302	US History from 1865	3
ENGL 2311	Technical Writing	3
CHEM 1112	General Chemistry Lab II	1
CHEM 1312	General Chemistry II	3
BIOL 1107	General Biology II - Lab	1
BIOL 1307	Gen Biology II-Biol Organisms	3
Second Semeste	r	
	Credits	17
UNIV 1301	First Year Seminar	3
HIST 1301	US History to 1865	3
ENGL 1301	Composition I	3
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry Lab I	1
BIOL 1106	General Biology I Lab	1
BIOL 1306	Gen Biology I-Attr Living Sys	3
First Semester		Credits

Second Semester

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