

BIOLOGY MAJOR
Natural Science Minor

First Year

BIOL 1053	Principles of Biology I	3	BIOL 1083	Principles of Biology II	3
BIOL 1041	Prin of Biol I Lab	1	BIOL 1091	Prin of Biol II Lab	1
CHEM 1103	General Chemistry I	3	CHEM 1113	General Chemistry II	3
CHEM 1121	General Chem I Lab	1	CHEM 1131	General Chem II Lab	1
MATH 1043	College Algebra	3	MATH 1033	Trigonometry	3
ENGL 1013	Freshman Comp I	3	ENGL 1023	Freshman Comp II	3
			HIST 1xx3	Survey Civilization	3
Total		14	Total		17

Second Year

BIOL 1143	General Botany	3	BIOL 1153	General Zoology	3
BIOL 1171	General Botany Lab	1	BIOL 1161	General Zoology Lab	1
CHEM 3404	Organic Chemistry I	4	CHEM 3414	Organic Chemistry II	4
SPCH 1xx3	Speech	3	PSY 1013	Intro Psychology	3
MUS 1113	Music Appreciation	3	HIST 2xx3	American History3	ENGL
OR ART 1053	Art Appreciation		2xx3	Survey World Lit 3	
	Social Science Elective	3			
Total		17	Total		17

Third Year

BIOL 3484	General Ecology	4	BIOL 3763	Evolution	3
BIOL 3363	Cell Biology	3	BIOL 3354	Genetics	4
PHYS 2203	General Physics I	3	PHYS 2213	General Physics II	3
PHYS 2231	Physics Lab I	1	PHYS 2241	Physics Lab II	1
Upper Level Elective		4	Upper Level Chemistry Elective		4
Total		15	Total		15

Fourth Year

BIOL xxx4	Jr./Sr. Elective	4	BIOL 4634	Vertebrate Physiology	4
ESCI 1063	Elements of Geology	3	BIOL 4741	Seminar	1
ESCI 1051	Elem of Geology Lab	1	Upper Level Elective		3
	Humanities Elective	3	Electives		7
	Elective	3			
Total		14	Total		15

Junior/Senior Biology Electives:

BIOL 3314 Ichthyology/Herpetology	BIOL 3574 Comparative Anatomy
BIOL 3333 Molecular Biology	BIOL 3594 Invertebrate Zoology
BIOL 3434 Regional Flora	BIOL 4624 Vertebrate Embryology
BIOL 3413 Mammalogy	BIOL 4664 Mammalian Histology
BIOL 3493 Environmental Science	BIOL 4673 Pharmacology
BIOL 3503 Marine Biology	BIOL 4724 Aquatic Biology
BIOL 3511 Marine Biology Laboratory	BIOL 4734 Animal Behavior
BIOL 3524 Ornithology	CHEM 4633 Biochemistry I
BIOL 3553 Microbiology	CHEM 4643 Biochemistry II
BIOL 3561 Microbiology Lab	CHEM 4731 Biochemistry lab

Students required to enroll in Developmental courses will either need to attend summer school or take additional courses during the Fall and/or Spring semesters. Credit hours earned in developmental courses do not apply toward the 124 hours required for graduation

Specific Requirements for a Biology Major

Major Requirements	39 hours	Supportive Requirements	30 hours
BIOL 1053	Principles of Biology I	CHEM 1103	General Chemistry I
BIOL 1041	Principles of Biology I Lab	CHEM 1113	General Chemistry II
BIOL 1083	Principles of Biology II	CHEM 1121	General Chemistry I Laboratory
BIOL 1091	Principles of Biology II Lab	CHEM 1131	General Chemistry II Laboratory
BIOL 1153	General Zoology	CHEM 3404	Organic Chemistry I
BIOL 1161	General Zoology Laboratory	CHEM 3414	Organic Chemistry II
BIOL 1143	General Botany	MATH 1033	Trigonometry
BIOL 1171	General Botany Laboratory	MATH 1043	College Algebra
BIOL 3354	Genetics	Choose one of the following course sequences:	
BIOL 3363	Cell Biology	PHYS 2203	General Physics I and
BIOL 3484	General Ecology	PHYS 2213	General Physics II
BIOL 3763	Evolution	or	
BIOL 4634	Vertebrate Physiology	PHYS 2313	University Physics I and
BIOL 4741	Seminar in Biology	PHYS 2323	University Physics II
Electives:		PHYS 2231	Physics Laboratory I
Four hours of 3000-4000 level Biology courses		PHYS 2241	Physics Laboratory II

The biology major requires a minor.

As some courses are not offered every semester it is very important for students to enroll in courses when they are available. The following courses are offered in the indicated semester:

Every Fall

BIOL 1053	Principles I
BIOL 1041	Principles I Lab
BIOL 3484	General Ecology
CHEM 3314	Quantitative Analysis
CHEM 3404	Organic Chemistry I
CHEM 4633	Biochemistry I
ESCI 1051	Elements of Geology Lab
ESCI 1063	Elements of Geology
PHYS 2323	University Physics II

Every Spring

BIOL 1083	Principles II
BIOL 1091	Principles II Lab
BIOL 3354	Genetics
BIOL 4634	Vertebrate Physiology
BIOL 4673	Pharmacology
CHEM 1113	General Chemistry II
CHEM 1131	General Chemistry II Lab
CHEM 3414	Organic Chemistry II
CHEM 4643	Biochemistry II
CHEM 4731	Biochemistry Lab
ESCI 1073	Earth & Atmosphere
ESCI 1081	Earth & Atmosphere Lab
PHYS 2313	University Physics I

Fall of odd numbered year semesters:

BIOL 3363 Cell Biology
BIOL 3413 Mammalogy
BIOL 3574 Comparative Anatomy

Spring of even numbered years:

BIOL 3314 Ichthyology/Herpetology
BIOL 3763 Evolution

Fall of even numbered years:

BIOL 3493 Environmental Science

Spring of odd numbered years

BIOL 3434 Regional Flora

BIOL 3524 Ornithology