

Bachelor of Science

Biology with a Major in Biology-One Health (BS)

Degree Program Guide

The Degree Program Guide is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.

Course	Title	Credit Hours
Freshman		
First Semester		
ENGL 110C	English Composition (C or better required)	3
MATH 162M	Precalculus I	3
BIOL 121N & BIOL 122N		4
CHEM 121N	Foundations of Chemistry I Lecture	3
CHEM 122N	Foundations of Chemistry I Laboratory	1
Credit Hours		14
Second Semester		
ENGL 211C or ENGL 231C	Writing, Rhetoric, and Research (C or better required) or Writing, Rhetoric, and Research: Special Topics	3
MATH 163	Precalculus II	3
BIOL 123N & BIOL 124N		4
CHEM 123N	Foundations of Chemistry II Lecture	3
CHEM 124N	Foundations of Chemistry II Laboratory	1
Credit Hours		14
Sophomore		
First Semester		
BIOL 291	Ecology	3
BIOL 292	Evolution	3
MATH 205	Calculus for Life Sciences	3
CHEM 211	Organic Chemistry I Lecture	3
CS 121G or CS 126G or OEAS 130G	Introduction to Information Literacy and Research for Scientists or Honors: Introduction to Information Literacy and Research or Research Skills and Information Literacy for the Natural Sciences	3
Credit Hours		15
Second Semester		
BIOL 293	Cell Biology	3
BIOL 294	Genetics	3
STAT 130M or STAT 310	Elementary Statistics or Introductory Data Analysis	3
Select one of the following:		4

PHYS 111N	Introductory General Physics	
OEAS 110N	Earth Science	
OEAS 111N	Physical Geology	
Oral Communication		3
Credit Hours		16
Junior		
First Semester		
BIOL 302	Introduction to immunology	3
300/400-level Biology elective		4
Literature		3
Elective or Language-Culture I		3
Philosophy & Ethics		3
Credit Hours		16
Second Semester		
BIOL 316	General Microbiology	3
BIOL 317 or BIOL 318	General Microbiology Laboratory or Online General Microbiology Laboratory	2
300/400-level Biology elective		4
Elective or Language-Culture II		3
Impact of Technology		3
Credit Hours		15
Senior		
First Semester		
BIOL 436W	Infectious Disease Epidemiology ((C or better required))	3
300/400 Level Biology elective		4
Upper-Division General Education course		3
Human Behavior		3
Interpreting the Past		3
Credit Hours		16
Second Semester		
BIOL 437W	One Health: People, Animals and the Environment	3
300/400 Level Biology elective		4
Upper-Division General Education course		3
Human Creativity		3
Elective (if needed)		1
Credit Hours		14
Total Credit Hours		120