

# 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
<b>Freshman</b>		
<b>First Semester</b>		
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
<b>Credit Hours</b>		<b>14</b>
<b>Second Semester</b>		
ENGL 211C or ENGL 231C	Writing, Rhetoric, and Research 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
<b>Credit Hours</b>		<b>14</b>
<b>Sophomore</b>		
<b>First Semester</b>		
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
<b>Credit Hours</b>		<b>15</b>
<b>Second Semester</b>		
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
<b>Credit Hours</b>		<b>16</b>
<b>Junior</b>		
<b>First Semester</b>		
BIOL 302	Introduction to immunology	3
300/400-level Biology elective		4
Literature		3
Elective or Language-Culture I		3
Philosophy & Ethics		3
<b>Credit Hours</b>		<b>16</b>
<b>Second Semester</b>		
BIOL 316	General Microbiology	3
BIOL 317	General Microbiology Laboratory	2
300/400-level Biology elective		4
Elective or Language-Culture II		3
Impact of Technology		3
<b>Credit Hours</b>		<b>15</b>
<b>Senior</b>		
<b>First Semester</b>		
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
<b>Credit Hours</b>		<b>16</b>
<b>Second Semester</b>		
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
<b>Credit Hours</b>		<b>14</b>
<b>Total Credit Hours</b>		<b>120</b>