

# BIOLOGY

## Degree Requirements

Total program: 68 - 74 semester hours

### Prerequisite Courses

28 semester hours

Code	Title	Semester Hours
MATH 105	Precalculus	4
PHYS 201	General Physics I	5
or PHYS 203	Physics I: Mechanics	
CHEM 201	General Chemistry I	5
CHEM 202	General Chemistry II	5
CHEM 311	Organic Chemistry I	5
Any 200-400 Natural Science or advisor approved courses from: MATH, PHYS, CHEM, NASC		4
<b>Total Semester Hours</b>		<b>28</b>

### Core Requirements

28-34 semester hours

Code	Title	Semester Hours
<b>Core Introductory Courses</b>		
BIOL 201	General Biology I	4
or BIOL 205	Animal Biology	
BIOL 202	General Biology II	4
or BIOL 204	Plant Biology	
<b>Core Foundational Courses</b>		
BIOL 310	Cell Biology	4
BIOL 311	Genetics	4
BIOL 323	Ecology	2
BIOL 378	Evolution and Biosystematics	2
One 200-400 elective biology, or advisor approved course		2-4
<b>Core Mastery Courses</b>		
BIOL 381	Research Writing in the Sciences	2
BIOL 382	Statistics for Life Sciences	2-4
or BIOL 383	Statistics and Applications for Life Sciences	
Select one of the following:		0-4
BIOL 499A	Senior Seminar/Project	
& BIOL 499B	and Senior Seminar/Project	
BIOL 499	Senior Seminar/Project	
<b>Total Semester Hours</b>		<b>26-34</b>

Requires the completion or concurrent enrollment in two qualified courses with undergraduate research experience aligned with the Council on Undergraduate Research (CUR).

## Additional Biology Requirements

12 semester hours

One course (4 semester hours) must be taken from each of the three designated themes.

### Themes

#### Environmental

(one of the following must be taken)

Code	Title	Semester Hours
BIOL 305	Vertebrate Zoology	4
BIOL 312	Environmental Biology	4
BIOL 322	Marine & Freshwater Biology <sup>1</sup>	4
BIOL 327	Mountain and Desert Biology <sup>1</sup>	4
BIOL 334	Ornithology	4
BIOL 390	Natural History of the Tropics	4
BIOL 390F	Natural History of the Tropics Fieldwork Course	2

<sup>1</sup>

These courses are designated as CURs. However, the CUR status may not apply every semester. Students must confirm course status before enrolling for CUR credit.

#### Applied/Translational

(one of the following must be taken)

Code	Title	Semester Hours
BIOL 302	Microbiology	4
BIOL 316	Molecular Biology <sup>1</sup>	4
BIOL 343	Human Anatomy	4
BIOL 345	Immunology	4
BIOL 346	Molecular Basis of Disease	4
BIOL 376	Human and Environmental Toxicology	4
BIOL 385	Community-Engaged Health Research <sup>1</sup>	4
BIOL 441	Nutrition	2

<sup>1</sup>

These courses are designated as CURs. However, the CUR status may not apply every semester. Students must confirm course status before enrolling for CUR credit.

#### Integrative/Interdisciplinary

(one of the following must be taken)

Code	Title	Semester Hours
BIOL 313	Developmental Biology <sup>1</sup>	4
BIOL 314	Biochemistry	5
BIOL 344	Human Physiology	4
BIOL 350	Introduction to Computational Biology <sup>1</sup>	4
BIOL 361	Plant Physiology <sup>1</sup>	4

<sup>1</sup>

These courses are designated as CURs. However, the CUR status may not apply every semester. Students must confirm course status before enrolling for CUR credit.