

# BIOLOGY / BACHELOR OF SCIENCE

**Total Credit Hours:** 120

**Major Credit Hours:** 72-74

Students must achieve a grade of C- or better in each of the following courses before they can advance to the next course in the sequence: BIOL 11000 General Biology 1, BIOL 11500 General Biology 2, BIOL 22000 Genetics, and BIOL 22400 General Microbiology. Any grade less than a C- requires the student to repeat the class or petition for an exemption. Students may receive the exemption only once.

Biology majors may take a Biology class only 2 times. If a student has not achieved a minimum of a "C-" after the second attempt, the student may not repeat the class. Students are allowed to repeat no more than two courses in the program to satisfy minimum grade requirement.

The Biology Department will award 3 hours of credit for the General Education class BIOL 10000 Introduction to Biology when students have received a score of 4 or 5 on AP tests. No credit is awarded for major classes based on AP scores.

## Requirements

### Degree Requirements

Code	Title	Hours
<b>Core Courses</b>		
BIOL 11000	General Biology 1	4
BIOL 11100	General Biology 1 Lab	1
BIOL 11500	General Biology 2	4
BIOL 11600	General Biology 2 Lab	1
BIOL 22000	Genetics	4
BIOL 22100	Genetics Lab	1
BIOL 22400	General Microbiology	4
BIOL 22600	General Microbiology Lab	1
BIOL 32000	Biostatistics	3
BIOL 35500	Molecular Biochemistry with Clinical Correlates	3
or BIOL 35700	Nutritional Biochemistry with Clinical Correlates	
BIOL 35600	Molecular Biochemistry Lab	1
BIOL 39400	Major Field Test	0
BIOL 40600	Molecular Cell Biology	4
BIOL 49600	Biology Senior Capstone	2
CHEM 11000	General Chemistry 1	4
CHEM 11100	General Chemistry 1 Lab	1
CHEM 11500	General Chemistry 2	4
CHEM 11600	General Chemistry 2 Lab	1
CHEM 23000	Organic Chemistry I	3
CHEM 22100	Organic Chemistry I Lab	1
CHEM 23500	Organic Chemistry 2	3
CHEM 22600	Organic Chemistry 2 Lab	1
PHYS 20000	College Physics 1	4
PHYS 20100	College Physics 1 Lab	1
PHYS 20500	College Physics 2	4
PHYS 20600	College Physics 2 Lab	1

MATH 20900	Calculus 1	4
or MATH 20400	Calculus for the Life Sciences	
Select two of the following:		6-8
BIOL 31500	General Ecology and Evolution	
BIOL 31600	General Ecology Lab	
BIOL 32200	Environmental Microbiology	
BIOL 32300	Environmental Microbiology Lab	
BIOL 33500	Advanced Clinical Physiology	
BIOL 33600	Case Studies in Human Physiology	
BIOL 35500	Molecular Biochemistry with Clinical Correlates	
BIOL 35700	Nutritional Biochemistry with Clinical Correlates	
BIOL 35800	Nutritional Biochemistry Lab	
BIOL 36300	Biomimicry and Whole Systems Thinking	
BIOL 37300	Renewable Energy Technologies	
BIOL 37500	Issues in Environmental Science	
BIOL 39300	Green Building and LEED Rating Systems	
BIOL 40500	Invertebrate Zoology	
BIOL 41600	Conservation Biology	
BIOL 41700	Conservation Biology Lab	
BIOL 41800	Limnology	
BIOL 42000	Botany	
BIOL 42100	Botany Lab	
BIOL 42200	Human Anatomy	
BIOL 42300	Functional Human Anatomy Lab	
BIOL 42500	Medical Microbiology	
BIOL 42600	Immunology	
BIOL 43500	Ethics: Scientific Principles and Practices	
BIOL 47900	Pharmacology	
BIOL 49700	Special Topics	
Select one of the following:		1
BIOL 38000	Biochemistry Journal Club	
BIOL 38100	Physiology Journal Club	
BIOL 38200	Microbiology Journal Club	
BIOL 38300	Ecology Journal Club	
BIOL 38400	Genetics Journal Club	
BIOL 38500	Biology Journal Club	

**Total Hours** **72-74**

### Advanced Writing Requirement

The advanced writing requirement of the General Education curriculum is satisfied by the successful completion of:

BIOL 38500 Biology Journal Club  
BIOL 49600 Biology Senior Capstone