

BIOLOGY, B.S.

Biology is the scientific study of life: the diversity and organization of organisms, from single-celled bacteria to multi-cellular plants and animals, including humans. The multidisciplinary approach is built upon a strong foundation in the biological sciences combined with coursework in chemistry and physics. The Biology major provides flexibility in upper-level courses for students to design a program to suit their career goals and interests.

Biology General Major

The general biology major provides students with a strong background in the biological sciences, from molecules to organisms to ecological relationships. Advanced courses build upon information learned in the foundational courses and allow students to pursue their own areas of interest. The general major is a good choice for students interested in Botany, Wildlife Biology, Conservation Biology, Marine Biology, and Secondary Education. A major in traditional Biology prepares students to pursue graduate degrees or to work in a variety of settings.

Students graduating with a major in Biology will be able to:

- Understand fundamental concepts in the discipline;
- Write a lab report to communicate the findings of a scientific experiment;
- Design an experiment to test a hypothesis;
- Find and analyze primary literature in the field;
- Demonstrate appropriate technical skills in the laboratory;
- Analyze data with appropriate statistical analysis.

Code	Title	Hours
BIOL 101	Biology Seminar for Majors	1
BIOL 150	Introduction to Biology I: Cells	4
BIOL 160	Introduction to Biology II: Organisms	4
BIOL 240	Genetics	4
BIOL 302	Applied Statistics in Biology	1
BIOL 354	Ecology	4
BIOL 480	Cell & Molecular Biology	4
Biology Electives (300 level or above)		13
CHEM 150	Introduction to Chemistry I	4
CHEM 152	Introduction to Chemistry II	4
CHEM 201	Organic Chemistry I	4
CHEM 202	Organic Chemistry II	4
MATH 232	Introduction to Statistics	3
or MATH 232H	Honors: Introduction to Statistics	
PHYS 131	General Physics I	4
PHYS 132	General Physics II	4
Total Hours		62