

# BIOL111C : General Biology I

Designed to provide the student with the basic principles of biology, including scientific method, cell structure, cellular biochemistry and energy transformations, and genetics. Labs are used to develop skills in scientific thought and common procedures used in biological experimentation. With BIOL 112C, intended to provide a foundation for further study in life sciences.

**Credits** 4

**Lab/Practicum/Clinical Hours** 2

**Lecture Hours** 3

## **Prerequisites**

*Students are required to pass prerequisite courses with a grade of C or higher. Exceptions apply; please consult your department chair.*

Algebra I with a grade of C or higher; high school-level Biology and Chemistry with labs with grades of C or higher

## **Learning Outcomes**

Upon completion of this course, students will:

1. Apply the scientific method.
2. Demonstrate proper laboratory techniques and skills.
3. Define the cell theory and describe the structures and main functions of cells.
4. Compare and contrast inorganic and organic molecules as they relate to the structure and function of living things.
5. Examine mechanisms of energy transformations.
6. Evaluate Mendelian and modern genetics.
7. Explain the principles of molecular biology as they apply to biotechnology.