

# BIOL211C : Genetics

A lab course intended to enhance a student's knowledge of basic genetics and to provide the foundation necessary for further studies in molecular biology, cell biology, evolution, systematics, and behavior. Topics covered will include Mendelian genetics, molecular genetics, immunogenetics, genetics of cancer, and population genetics.

**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.*

- Students must take BIOL112C or BIOL196C, plus MATH124C.

BIOL112C

BIOL196C

MATH124C

## **Learning Outcomes**

Upon completion of this course, students will:

1. Evaluate classical genetics, modern genetics, and population genetics.
2. Explain the principles of molecular biology, the physical and chemical nature of genetic material, patterns of inheritance of traits, and basic approaches of recombinant DNA technology.
3. Demonstrate proper laboratory techniques and skills.