

BIOL125C : Human Genetics and Society

An introduction to genetics for students not majoring in the sciences. The student will be introduced to the basic principles of Mendelian and molecular genetics and will apply these principles to human genetic traits. Causes and treatments of common inherited diseases will be discussed as well as genetic technologies and their applications (recombinant DNA technology, genetic engineering, *in vitro* fertilization). The associated ethical and social issues will also be examined. Lab component to complement lecture.

Credits 4

Lab/Practicum/Clinical Hours 2

Lecture Hours 3

Recommended Prerequisites

high school Biology

Learning Outcomes

Upon completion of this course, students will:

1. Evaluate classical and modern genetics.
2. Explain the principles of molecular biology as they apply to humans and biotechnology.
3. Analyze the social, ethical, and cultural implications of human genetic principles and biotechnology and how they apply to individuals and society .