

# MEDI 317: Human Physiology I

In this two-semester sequential course, students will be provided with an in-depth study of the physiology of human body systems. Topics studied in the fall semester are: molecular basis of physiology; the nervous system; and, cardiovascular system. The course sequence is intended as a bridge to advanced studies in pathophysiology and medicine.

## Learning Objectives

- Understand structure-function relationships of the systems of the human body
- Identify the structural and functional levels of organization from cellular to organ system levels
- Describe how the body adapts to different everyday situations and environmental stresses
- Explain the principle of homeostasis and feedback-control mechanisms as they relate to body systems
- Develop active learning styles through problem solving in physiology
- Apply knowledge of functional mechanisms and their regulation to explain the pathophysiology underlying common disorders
- Communicate physiologic concepts to a variety of audiences

**Credits:** 2

**Class Type:** Graduate Course

**Prerequisites:**

general biology; BIOL 101 or equivalent.

**Program:** Biology, Genetics, and Medicine

**Availability** Fall 2021

**Session** Session B