

MEDI 345: Human Anatomy and Physiology I: Musculoskeletal, Cardiovascular, and Nervous Systems

Human anatomy will be taught using a systemic approach and emphasizing the connection between function and structure as it relates to physiological conditions and diseases. To this end, lectures will integrate elements of embryology and histology. Modern imaging methods will be introduced as well. Selected topics of topographic anatomy will be also examined, including head/neck and pelvis. A mid-term and final exam will be offered to allow students to assess their comprehension of the material. This course is suitable for advanced undergraduate and/or postbac students planning a career in medicine and biomedical research and will be taught at a level of complexity that is similar to courses offered at most medical schools. Other biomedical researchers who seek to better understand the structural underpinnings of normal and pathologic functions of the human body may also find the course useful.

Learning Objectives

- Describe principles of human anatomy using a systemic approach
- Discuss the fundamentals of embryology and general microanatomy (histology)
- Identify the anatomical structures of the musculoskeletal, nervous, and cardiovascular systems
- Explain how these systems interact, and how structural and functional characteristics of tissues, organs, and systems are interdependent

Credits: 2

Class Type: Graduate Course

Prerequisites:

College degree; basic knowledge of cell biology.

Program: Biology, Genetics, and Medicine

Availability Spring 2022

Session Session A