

PHYL 141: Human Anatomy and Physiology I

PHYL 141 is the first semester of a comprehensive two-semester course which provides a thorough introduction to the structure and function of the human body. PHYL 141 covers the gross anatomy, histology, and physiology of the integumentary, skeletal, muscular, and nervous systems. Students will be expected to learn details of anatomy and physiology as well as applying those details in the broader context of whole body function and homeostasis. The covered topics include body orientation, chemical level, cellular level, tissue level, integumentary system, bone tissue, skeletal system, joints, muscular tissue, muscular system, nervous tissue, spinal cord and spinal nerves, brain and cranial nerves, autonomic nervous system, and special senses. Formerly ZOOL 141.

Credits: 3

Lecture Hours: 3

Prerequisites:

A grade of C or better in HLTH 125 or BIOL 100, or concurrent registration in HLTH 125.

Program: [Physiology](#)

Recommended:

CHEM 151, CHEM 161 or BIOC 141 with a grade of C or better or 1 year of high school college prep chemistry with a B or better within the last 5 years. Concurrent enrollment in PHYL 141L.

Student Learning Outcomes:

- Identify required anatomical structures of the covered systems.
- Identify required physiological functions of the covered systems.
- Describe metabolic processes of covered systems and relate them to everyday activities such as eating, sleeping, and exercise.
- Explain the concepts of positive/negative feedback and homeostasis and relate them to physiological processes covered in the course.