

# Anatomy and Physiology I Lecture

8 Modules + 1 Module for Final Exam / Credit-by-Course / Credits 3

## Course Description:

As the first part of a two-course series, this course initiates the application of the conceptual framework to the subject of Human Anatomy and Physiology, by introducing many scientific concepts and providing a comprehensive overview of the integrative mechanisms that contribute to the function of the human body. The course places emphasis on organization and overview of the human body, chemical reactions, maintenance of the body, integration, regulatory mechanisms and the dynamics of support and motion. Specific topics covered include anatomical terminology, organization of the body, histology, cell biology, tissues, the integumentary system, the skeletal system, joints, the muscular system, nervous system, neural integration, special senses and the autonomic nervous system.

## Course Outcomes:

After completing this course, you will be able to:

- Recognize the fundamental concepts of anatomy and physiology, and the organizational scheme and standard terminology of the body.
- Identify and apply concepts of the major chemical reactions and chemical constituents of the body, as well as the equilibrium state.
- Recognize and categorize the skeletal system, the supporting tissue, tissue physiology, and muscle tissue.
- Compare, contrast, and identify the types, functions, and locations of the classes of joints contained in the human body.
- Compare, contrast and identify the structure, type, location, and function of the skeletal muscles of the body.
- Distinguish and evaluate the functional organization of the nervous system, including the brain, spinal cord, cranial and spinal nerves, special senses, and nervous signaling, integration, and control.
- Apply the role of the autonomic nervous system on homeostasis and normal physiologic control.

## E-Book:

Title: McGraw Hill - Seeley's Anatomy and Physiology, Edition 13

## Open Educational Resources (OER's)

If you are struggling with a term or concept, you can utilize the links below to search for the concept or term to find additional resources and explanations.

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The Crash Course (<https://thecrashcourse.com/topic/anatomy/>)

Inner Body (<https://www.innerbody.com/htm/body.html>)

Visible Body (<https://www.visiblebody.com/learn/>)

Carnegie Mellon University: Open Learning Initiative  
(<https://oli.cmu.edu/jcourse/webui/guest/join.do?section=anatomy>)

## Closed Captioning

Lecture videos and extra resource videos have automatic closed captioning. These captions are generated by computer algorithms. To utilize closed captioning, you can click on the CC button at the bottom of a video.

## Accommodating Student Disabilities

Gateway Education is committed to the belief that every individual should have an equal opportunity in education. Gateway Education seeks to assure access by providing accommodations to individuals with a disability as defined under the Americans with Disabilities Act of 1990 (ADA) and the ADA Amendments Act of 2008 (ADAAA). Accommodation includes, but is not limited to: aids or modification to courses, materials, or testing; and other services that allow better access by individuals with disabilities.

Individuals requesting accommodation should submit a request in writing or in an alternative format appropriate for their limitations. The request should include documentation of the disability, including information with recommendations of appropriate accommodation. Once eligibility has been established, accommodations must be requested on a course-by-course basis.

Requests can sent to the student services department at [help@gatewayeducation.com](mailto:help@gatewayeducation.com)