

# Anatomy and Physiology II Lecture ACE

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

## Course Description:

As the second part of a two-course series, this course briefly reviews basic concepts and principles related to the function of the human body, and then continues the application of this established conceptual framework set up in the first session of Human Anatomy and Physiology, by providing a comprehensive overview of the integrative mechanisms that contribute to the function of the human body not covered in the first session of the course. 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, as they pertain to topics not covered in the first session of the course. Specific topics covered include a review of A&P; fundamentals from A&P; I, the endocrine system, the cardiovascular system, the vasculature and respiratory system, the lymphatic and immune systems, the digestive system, the urinary system, fluid and electrolyte balance, the reproductive system, and aging.

## 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.
- Distinguish and evaluate the endocrine system, as well as its structure and function in the chemical communication pathways of the human body.
- Compare, contrast, and identify the many aspects of the cardiovascular system, including the function and composition of blood, its exchange of gasses and nutrients with the other systems of the body, including the structure, function, and control of the heart.
- Recall the role of the lymphatic system, its structure, and functions.
- Identify and apply the function and structure of the respiratory system, including its interactions with the cardiovascular system, as well as its role in acid-base balance.
- Recognize and evaluate the functions and structure of the digestive system and the mechanisms of nutrient absorption and regulation of metabolism.
- Distinguish the urinary system, its structure, and its role in acid-base balance and fluid compartment maintenance.
- Recall and apply function of the human reproductive system and its principal components and recognize prenatal development and process of labor and delivery.
- Identify basic concepts related to aging and heredity.

## 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.

[Link Removed]

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

Distance Learning Systems and its locations are committed to the belief that every individual should have an equal opportunity in education. Distance Learning Systems 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 be made at [help@gatewayeducation.com](mailto:help@gatewayeducation.com). For any questions or concerns, please contact the Academic Department by telephone at 866-684-8802/866-684-8802.

## Late Work Policy

This course has a Start Date and an End Date. All activities, assessments, and final exams must be completed by the class's end date. Therefore, a late work policy is not needed for the class. Activities, assessments, or final exams will not be accepted after the class's end date.

It is very important you pace yourself through the class to ensure you have all coursework, including the final exam, completed by the course end date.