

Pathophysiology ACE

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

Course Description:

This course provides a comprehensive overview of foundational concepts in Pathophysiology, studying pathology and treatment of diseases. The content utilizes anatomy and physiology as our starting point to understand how diseases manifest and impact specific body systems and the body as a whole. The course is divided into sections related to the basics, levels of organization, the integumentary system, the skeletal system, the muscular system, the nervous system, senses, the endocrine system, the cardiovascular system, the lymphatic system, the respiratory system, the digestive system, the excretory/urinary system, the male and female reproductive systems, and clinical applications related to various systems.

Course Objectives:

After completing this course, you will be able to:

- Demonstrate a thorough understanding of the normal physiology of each body system.
- Compare and contrast the major functions and roles of the major body systems.
- Identify and distinguish the main components, networks, and processes involved in each major body system.
- Describe and apply the main concepts and principles of disease.
- Recall and interpret the mechanisms employed by body systems in response to pathogens, injuries, and the disruption of homeostasis.
- Identify, compare, and contrast abnormal physiologic mechanisms and pathways associated with disease processes.
- Differentiate normal and abnormal physiologic processes, structures and functions, and clinical manifestations.
- Analyze and form conclusions based on examples in pathophysiology.
- Recognize aging in the various body systems and body as a whole.
- Identify clinical risk factors, etiology, manifestations and presentations, and diagnostic tests and tools related to disease treatment.

E-Book:

Title: Anatomy, Physiology, & Disease, Edition: 3, Author: Deborah Roiger

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]

Pathophysiology Merlot (<https://www.merlot.org/merlot/viewSite.htm?id=9165801>)

CDC (<https://www.cdc.gov/index.htm>)

National Institutes of Health (<https://www.nih.gov/>)

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 be sent to the student services department at help@gatewayeducation.com