

Introduction to Anatomy and Physiology

Course Overview

Many health science careers require an understanding of anatomy and physiology. The Workforce Access *Introduction to Anatomy and Physiology* online course is aimed at helping learners develop a basic understanding of anatomy and physiology, and to build the academic and workplace skills needed for success in postsecondary or career training. Students have the opportunity to learn essential concepts and skills that will help them pursue a career in the medical field.

Learning Outcomes

While taking this course, students will learn to:

- Identify the directional terms and regional terms used to describe the areas of the body
- Define the three planes of the body and the locations of the major body cavities
- Describe the structure and function of cells and tissues, and the relationship between cells, tissues, and organs
- Explain the functions of each division of the nervous system, the structure and function of neurons, nervous signal transmission, the role of neurotransmitters, and common nervous system diseases and injuries
- Identify the functions of the endocrine system and how it affects your overall health
- Describe the functions and structure of the integumentary system and accessory skin structures and explain how to take care of your integumentary system
- Describe the structure and functions of the skeletal and muscular systems, the three types of joints, and common injuries and conditions of the skeleton
- Describe the cardiovascular system, the structure and functions of blood, how the heart moves blood through the body, and ways to keep the cardiovascular system healthy
- Describe the structure and functions of the lymphatic system and lymphatic system disorders
- Explain the major structures and functions of the respiratory system, how respiratory diseases develop, and ways to keep your respiratory system healthy
- Describe the functions of the digestive system; how food is digested and absorbed, how wastes are eliminated, and common digestive disorders
- Identify the functions and major organs of the urinary system and how to prevent problems of the urinary system
- Describe the general structure and functions of the male and female reproductive systems, the major organs of the reproductive systems, and how to prevent diseases associated with the reproductive system
- Develop reading for information, locating information, and applied mathematics skills contextualized to anatomy and physiology workplace scenarios

Modes of Course Delivery

The *Introduction to Anatomy and Physiology* course can be used as a core curriculum or as a supplement to enhance regular instruction. Because of this flexibility, the course can be delivered in a self-paced or a customized mode. Custom mode allows instructors to assign individual lessons and assessments and set the pace for the course.

Pacing and Course Duration

Sample 10-week and 12-week pacing guides are provided in the Teacher Planning Guide. The pacing guides can be used as is or adapted to account for shorter or longer terms to suit individual needs. Each of the lessons requires approximately 40-50 minutes of study. Additional academic skill support lessons, discussion prompts, and writing activities can be used to enhance students' learning.

Assessments and Reporting

Assessments for the course include interactive formative assessments within each lesson, as well as scored pretests and posttests for each lesson. Teachers and students can generate reports to show progress and mastery of industry and academic knowledge of skills.

How to Access *Introduction to Anatomy and Physiology*

When you order *Introduction to Anatomy and Physiology*, you will access everything you need in the ConnectED Learning Management System, including the core lessons, academic skill support lessons, teacher planning guide, lesson plans, and other useful resources. For more information on this or other Workforce Access courses, please go to www.workforceaccess.com.

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