

# Hole's Human Anatomy & Physiology

Charles Welsh | Cynthia Prentice-Craver  
2024 Release



## Overview

Perfect for introductory level students, *Hole's Human Anatomy and Physiology* is crafted to be easily understood, even for those without a science background. The book prioritizes building a solid foundation by exploring essential themes distilled into fundamental concepts and highlighting underlying mechanisms. The content is presented in an easy to digest writing style, complemented by striking artwork and illustrations.

Throughout the text, the Learn, Practice, Assess method is consistently applied, seamlessly integrating assessment and practice opportunities. This approach assists students in honing their understanding and concentrating their study efforts. The author team, actively engaged in the classroom, brings a blend of career relevance, an emphasis on clinical applications, concise language, and a contemporary perspective to this esteemed anatomy and physiology classic.

### Writing Style

Concise and Student Friendly

### Duration of Course

2-Semester

## What You Need to Know

### Clinical Application Focus

The Clinical Application sections elucidate various disorders, physiological responses to environmental stimuli, and more. These facets are then contextualized within clinical scenarios, providing a practical bridge between theoretical knowledge and real-world healthcare situations.

### Dynamic Art Program

Images are infused with vibrancy, three-dimensionality, and instructional value. Each piece has undergone meticulous scrutiny to guarantee both engagement and accuracy.

### From Science to Technology Features

These sections preview the technological applications of knowledge in anatomy and physiology that students are likely to encounter in the future and explain how and why the technology was developed.

## Table of Contents

1. Introduction to Human Anatomy and Physiology
2. Chemical Basis of Life
3. Cells
4. Cellular Metabolism
5. Tissues
6. Integumentary System
7. Skeletal System
8. Joints of the Skeletal System
9. Muscular System
10. Nervous System I: Basic Structure and Function
11. Nervous System II: Divisions of the Nervous System
12. Nervous System III: Senses
13. Endocrine System
14. Blood
15. Cardiovascular System
16. Lymphatic System and Immunity
17. Digestive System
18. Nutrition and Metabolism
19. Respiratory System
20. Urinary System
21. Water, Electrolyte, and Acid-Base Balance
22. Reproductive Systems
23. Pregnancy, Growth, and Development
24. Genetics and Genomics

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## This Title Has Gone Evergreen

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A complete list of Release Notes for this title is available within your Connect course at [connect.mheducation.com](https://connect.mheducation.com)

## Big Picture Changes in This Release

### Diversity, Equity, and Inclusion Revision

An increased emphasis on DEI includes updates to art and text for inclusive language and diverse representation to ensure individuals of all ethnicities and genders are represented. Examples of specific changes include a revised discussion of fetal development to account for intersex individuals, removal of gendered terms when their inclusion was not needed in the text, and an updated art program.

### Updated Content, Figures, and Images

Added or updated content in text on pathogens, regulatory T cells, classes of MHC protein molecules, and vaccines for COVID-19. Several figures and images have been added or refined for clarity. See Release Notes for additional details.

### Anatomy and Physiology Revealed

New updates to Anatomy and Physiology Revealed (APR) include new 3D models, a homologous structure feature to highlight similar structures between fetal pig, cat, and human specimens, histology images side-by-side to the cadaver and anatomical models, new Anatomy Lab videos, and several important policy updates including the ability to give time extensions for lab practical quizzes. Visit this website for extensive list of updates: <https://bit.ly/APR-Updates>

### Virtual Labs

Several new simulations have been added. Other updates include visibility of students' average completion time, ability to add instructor notes, and much more.



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