

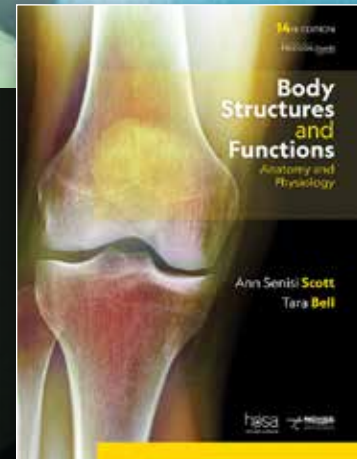
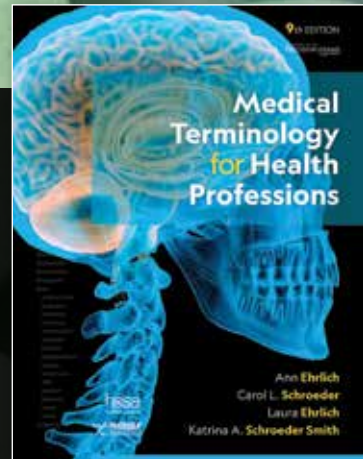
Career and Technical Education

# HEALTH SCIENCE

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# PREPARING FUTURE HEALTH PROFESSIONALS IN THE LAB & ONLINE



## Health Science

Prepare future health leaders and professionals with a comprehensive suite of print and digital solutions for your health science courses. Cengage programs have been updated to include recent medical innovations, procedures and issues, increased opportunities for hands-on practice, and new photographs, drawings, and figures to showcase diverse patients varying in age, race, and gender.

## Your Health Science Online Learning Resource

Powered by Cengage MindTap

### MindTap Includes:

- Full, interactive eBook with annotation & study tools
- Auto-graded quick check activities embedded in the reading
- Learning Lab Simulations
- Labeling/Matching Activities
- Flash Cards for key terms
- Videos
- Workbook Activities
- Evaluation Sheets (DHO)

### Students

Learners feel challenged, build confidence, and elevate their performance in a **singular Learning Path** of standards-aligned activities.



Personal Learning Path for Easy Navigation



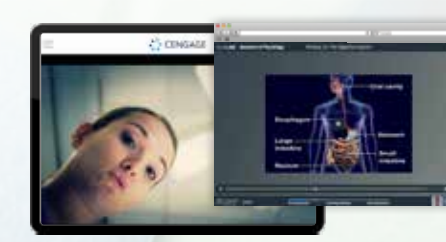
Interactive eTextbook with Read Aloud



Real-Life Simulations and Hands-On Activities



Rich Assessment and Certification Practice



Engaging Multimedia



Effective Study Tools



We are proud to partner with the National Consortium of Health Science Educators as a Publisher & Educational Resource Member to align our titles to the National Health Science Standards & Objectives.



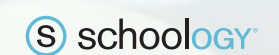
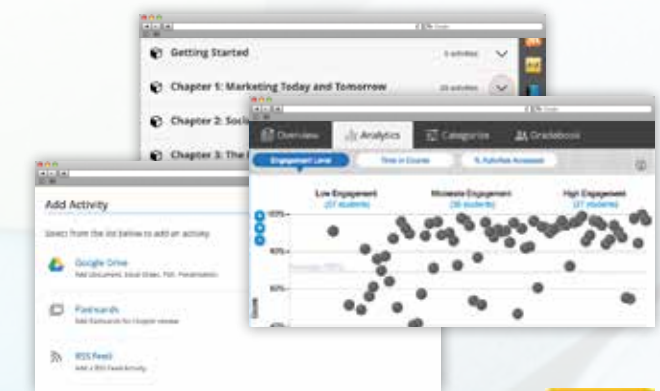
Cengage is proudly partnered with YouScience to align with and support their Industry Certifications.



National Geographic Learning | Cengage proudly partners with HOSA to ensure our programs prepare students for success. Cengage titles are listed as recommended resources for HOSA competitions. We also sponsor the annual Academic Testing Center for Future Health Professionals at the annual International Leadership Conference where students can compete to prove academic knowledge of key health and science skills that lead to success in future careers.

### TEACHERS

- Have **complete control of their course**.
- **Save time** with a pre-built course of standards-aligned content and auto-grading assessments.
- **Customize the learning experience** by rearranging and adding course content.
- **Impact learning in real-time** by using the gradebook and analytics for actionable insights.
- Access through most **Learning Management Systems** like Canvas, Schoology and Google Classroom.



▶ Visit [NGL.Cengage.com/TXHealthScience](https://www.ngl.cengage.com/TXHealthScience) to learn more.

## DHO HEALTH SCIENCE, 9E

\$127.422 Health Science Theory

## The Leader in Introductory Health Science Curriculum

The highly respected *DHO Health Science* continues to provide an all-in-one resource to build student excitement about the vast possibilities for a future in healthcare as well as covering introductory knowledge and skills in the health science curriculum. Organized in two parts, the text opens with foundational information required to enter a broad range of health professions, including infection control, first aid, legal requirements, and professionalism.

Part two covers fundamental entry-level skills for a range of specific careers, including medical assisting, dental assisting, nursing assisting and more. Carefully revised to include current medical issues and technology from the Opioid Epidemic to the impact of COVID-19 on the healthcare system, the ninth edition is updated to current National Healthcare Foundation Standards, HIPAA and OBRA requirements, as well as HOSA student competitions.

The ninth edition has also added NEW Case Study Investigations that bookend each chapter and offer students a chance to bring newly learned knowledge to help analyze patient scenarios and make recommendations. Prepare future health care professionals with an extensive learning package that includes an online teacher's resource kit and instructor's manual, student workbook with Evaluation Sheets, and MindTap, the online learning solution that includes interactive Learning Lab simulations where concepts come to life via learning activities and videos of patients and medical professionals in decision-making scenarios.



Louise Simmers  
9th Edition, ©2022  
9780357419991

## Icons Highlight Chapter Content:

Observe Standard Precaution	Communication Skill
Safety—Proceed with Caution	OBRA Requirement—Based on Federal Law
Math Skill	Legal Responsibility
Science Skill	Career Information
Instructor's Check—Call Instructor at this point	Technology

## WHAT'S NEW

- **Case Study Investigation and Conclusion** offers a realistic scenario of a patient's medical case at the beginning and end of each chapter so students can apply new content to make real-world decisions.
- **Issues in Health Care** have been added to discuss timely topics from our modern day culture like the Opioid Crisis and medical marijuana.
- **Critical Thinking Questions** at the end of each chapter give students an opportunity to further investigate content and topics in the reading.
- **Small Group Activities** give students the opportunity to work together to practice newly learned skills in each chapter.
- **HOSA Connection** features highlight applicable HOSA competitive events to engage students in leadership and professional experiences.
- **Check Point Questions** have been added to each section to encourage practice with interpreting medical terms, documentation, and abbreviations and analyzing issues to ensure comprehension before moving on.
- **Diverse Artwork** has been added to update photographs, drawings, and figures to showcase diverse patients to offer a more realistic view of human bodies varying in age, race, and gender.
- **Teacher's Resource Kit** is now completely online via the Instructor's Companion Site including PowerPoint Lectures, Test Banks, Solutions, Additional Activities, Lesson Plans, and more.

## FEATURES

- This hands-on, highly practical text includes step-by-step procedures that provide students with detailed guidance on proper techniques related to many health science skills.
- Icons highlight chapter content that refers to the Health Insurance Portability and Accountability Act (HIPAA) and electronic health records (EHRs), as well as cross-curricular skills in math, science, communication, technology and more, drawing students' attention to information relevant to these important aspects of modern professional practice.
- Comprehensive in coverage, this wide-ranging text provides a solid foundation in essential topics such as medical terminology, anatomy and physiology, communication skills, legal requirements, and professional standards and appearance, as well as career-specific skills in popular fields like dental assisting, medical assisting, and nursing assisting.
- Content conforms to the enhanced National Healthcare Foundation Standards, as well as Industry-Recognized Credentials, and HOSA competitive events so instructors and students alike can be confident in the relevance of chapter material for today's health science careers.
- Review questions for each chapter help assess comprehension of key concepts, while a companion workbook provides additional application questions and evaluation sheets for all covered procedures.
- The program fully aligns to the YouScience Industry-Recognized Credentials for the NCHSE National Health Science Assessment and the Health Science Fundamentals Exams.
- A robust digital package includes varied resources to enhance teaching and learning, including the MindTap learning solution and a Teacher's Resource Kit with lesson plans, tests, class activities, academic correlations, and visual aids.
- Online Spanish Glossary included on the companion site for native Spanish speakers.



Procedure 20.1



Figure 5-6

HOSA Connection  
Pathophysiology

## Case Study Investigation

Jennifer is a new registered nurse on the surgical floor of her medium-sized community hospital. Her patient, Mr. Eddie Cruz, is a 34-year-old male that has end-stage AIDS. He has not told his family or his current girlfriend Brianna. The family is demanding to know why this young man is not getting better since being admitted to the hospital. Mr. Cruz dies without disclosing his health status to anyone. Brianna and

Case Study Investigation

hosa CONNECTION

## Pathophysiology

**Purpose:** To encourage HOSA members to improve their ability to identify, spell, define and apply the prefixes, suffixes, roots, anatomy and physiology of human diseases impacting the health community.

**Description:** This event shall be a written test requiring competitors to apply, analyze, synthesize, and evaluate information related to pathophysiology. Competitors

will recognize, identify, define, interpret, and apply terms related to human diseases and conditions in a 100-item multiple choice test plus one tiebreaker essay question. Written test will measure knowledge and understanding at the recall, and application.

Details of this competitive event may be found at [www.hosa.org/guidelines](http://www.hosa.org/guidelines)

# DHO HEALTH SCIENCE, 9E

## Career Exploration and Skill Development

### CONTENTS

Chapter 1	History and Trends of Health Care
Chapter 2	Health Care Systems
Chapter 3	Careers in Health Care
Chapter 4	Personal & Professional Qualities of a Health Care Team Member
Chapter 5	Legal and Ethical Responsibilities
Chapter 6	Medical Terminology
Chapter 7	Anatomy and Physiology
Chapter 8	Human Growth and Development
Chapter 9	Geriatric Care
Chapter 10	Cultural Diversity
Chapter 11	Nutrition and Diets
Chapter 12	Computers and Technology in Health Care
Chapter 13	Medical Math
Chapter 14	Promotion of Safety
Chapter 15	Infection Control
Chapter 16	Vital Signs
Chapter 17	First Aid
Chapter 18	Preparing for the World of Work
<b>Part 2: Special Health Care Skills</b>	
Chapter 19	Dental Assistant Skills
Chapter 20	Laboratory Assistant Skills
Chapter 21	Medical Assistant Skills
Chapter 22	Nurse Assistant Skills
Chapter 23	Physical Therapy Skills
Chapter 24	Business and Accounting Skills
Appendix A:	Career and Technical Student Organizations (CTSOs)
Appendix B:	Correlation to National Health Care Foundation Standards
Appendix C:	Metric Conversion Charts

### INCLUDES

- Student Edition
- MindTap Online Learning Solution — One learning path contains the following:
  - » Interactive eTextbook with ReadSpeaker
  - » Career Exploration Learning Lab
  - » Learning Labs Health Care Simulations
  - » Formative and Summative Assessment
  - » National Consortium for Health Science Education Study Primer
  - » Intro and Procedure Videos
  - » Flashcards
  - » Study Hub
  - » Crossword Puzzles
  - » Progress App
- Print Student Workbook
- Cengage Testing, Powered by Cognero
- Instructor's Resource Companion Site
  - » Career Readiness Module
  - » Instructor's Manual
  - » Teacher's Resource Kit (Lesson Plans)
  - » Test Bank
  - » Standards Correlations
  - » Educator's Guide
  - » Glossary (English and Spanish)
  - » PowerPoint Slides



### Listed as recommended resources for the following HOSA competitions:

- Teamwork Event: HOSA Bowl
- Medical Math
- Health Profession:
  - » Medical Assisting
  - » Nursing Assisting
  - » Personal Care
  - » Physical Therapy
- Knowledge Test: Human Growth and Development
- Emergency Preparedness: CPR/First Aid
- Emergency Preparedness: Life Support Skills



### Aligns with these YouScience Industry Certifications:

- Health Science Fundamentals
- NCHSE's National Health Science Assessment
- Medical Assistant: Anatomy & Physiology
- Medical Anatomy & Physiology
- Medical Assistant: Medical Office Management
- Dental Assistant: Dental Science I
- Dental Assistant: Dental Science II
- Medical Terminology
- Medical Assistant: Medical Terminology

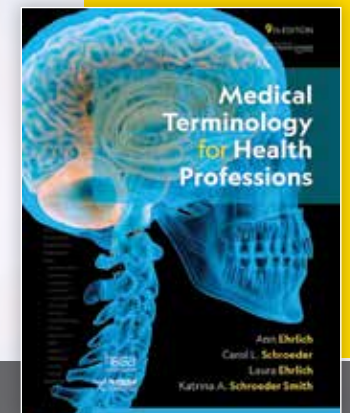
# MEDICAL TERMINOLOGY FOR HEALTH PROFESSIONS, 9E

## \$127.417 Medical Terminology

*Medical Terminology for Health Professions, 9e* simplifies the process of memorizing complex medical terminology by focusing on the important word parts—common prefixes, suffixes and root words—that provide a foundation for learning hundreds of medical terms.

Organized by body systems, chapters follow a logical flow of information: an overview of the body system's structure and functions, a summary of applicable medical specialties, and ultimately pathology, diagnostic, and treatment procedures. An expanded section on complementary and alternative therapies reflects the changing role of holistic health care. A convenient table of abbreviations is included at the end of every chapter, while resourceful appendices offer a listing of abbreviations, a table of word parts and their meanings, and a glossary of pathology and procedures.

Students can gain additional applied practice with the student workbook and MindTap with Medical Terminology Learning Labs simulations. The Ninth edition now includes Medical Mystery Case exercises in each chapter to apply terminology to analyze and solve realistic patient scenarios from onset of symptoms to a diagnosis.



Ann Ehrlich, Carol Schroeder, Laura Ehrlich, Katrina Schroeder Smith  
*9th Edition, ©2022*  
 9780357635698

### WHAT'S NEW

- **Medical Mystery Cases** now updated to reflect diversity and additional exercises are now included at the end of each chapter to offer an intimate look inside real medical cases, from the onset of symptoms to the diagnosis. New exercises include:
  - » **Transcription Challenge** allows students to practice transcribing medical terms and acronyms used in the Medical Mystery.
  - » **Interpreting Abbreviations** exercises offer the opportunity to practice medical abbreviation translating.
  - » **Team Building** exercises offer students the opportunity to role play as different team members of a health care team, caring for one patient. Students will see the importance of proper communication in a professional medical setting.
- **Diverse Artwork** has been added to update photographs, drawings, and figures to showcase diverse patients to offer a more realistic view of human bodies varying in age, race, and gender.
- This edition is **up-to-date on medical trends, issues, and strategies** with content on COVID-19, gender identity, advance directives, as well as additional content on viral skin infections, diabetic pathology and treatment, and much more.
- **Revised to truly fit the High School Medical Terminology Curriculum** with a fully updated workbook as well as additions to meet National High School Health Science Standards including additional chances for teamwork, practicing transcription, and understanding abbreviations.
- Thoroughly revised, the Ninth edition brings all terms, definitions, procedures, illustrations, and data up to date—reflecting feedback from instructors using the text as well as the authors' own research.

► Visit [NGL.Cengage.com/TXHealthScience](https://www.cengage.com/TXHealthScience) to learn more.

# MEDICAL TERMINOLOGY FOR HEALTH PROFESSIONS, 9E

## Mastering Word Parts for Academic & Career Success

### FEATURES

- **Word Part Review** follows Chapter 2 and the book ends with **Comprehensive Medical Review**, which is designed to help students prepare for a final exam or industry certification exam including study tips, practice exercises, and a simulated final test.
- Chapters 3 through 14 are **organized by body system** including an overview of structures and functions of the system and how these are related to medical specialists, pathology, diagnostics, and treatment procedures. The first page of each of these chapters offers a chart highlighting a quick overview of the structures, related combining forms, and functions most important to the system.
- **Health Profession Profiles** highlight real-life experiences in the health care industry to inspire students' career choices while **Career Opportunities** boxes in each chapter list additional careers students can research related to the body system.
- **The Human Touch Critical Thinking Exercises** are real-life stories involving patients and pathology with suggested discussion topics to engage the class with medical terms related medical care.
- **Vocabulary Lists** include 15 key word parts with their meanings and 60 terms with pronunciations students will learn in each chapter.
- The proven combination of **Over 100 Learning Exercises** that follows each chapter's text is designed to make teaching medical terminology easy by thoroughly engaging learners with a variety of formats, real-life medical scenarios, and critical thinking exercises.
- **Text Exercises** emphasize writing out the correct answers, which reinforces students' spelling skills as well as their understanding of the material.
- A convenient **Table of Abbreviations** is included at the end of every chapter, while resourceful appendices include a listing of abbreviations, a table of word parts and their meanings, and a glossary of pathology and procedures.
- Equipping students with additional study tools, **MindTap for Medical Terminology** includes online flash cards, read-speaker interactive eBook, auto-graded exercises, and **Medical Terminology Learning Lab Simulations**, which provide activities to use mnemonics, word parts, and real-world situations to remember terms as they move through the body systems as well as diagnostic procedures and pharmacology.
- **MindTap for Med Term** also includes MindTap Pronounce activities to help motivate students and build their confidence in pronouncing medical terms correctly in professional settings using voice recognition technology.

**HEALTH PROFESSION PROFILE**  
**Cardiology Scrub Tech**  
 Stephen Griffin, CST  
 I am in charge of all instruments, equipment, and sterile supplies used in surgery as well as assisting the surgeon during surgery. I chose this career because I love patient care, as well as anatomy and physiology. For a very hands-on person, and being a scrub tech also allows me to be as close to the action as possible.  
 As a cardiovascular scrub tech, I love the cases we see and the team I get to work with. The heart is my favorite organ by far. Being able to hold a heart in your hands and help save lives every day is a blessing and a gift. We have very high acuity cases and patients at my hospital, as well as taking on cardiac and vascular emergencies. These cases can be stressful and challenging. Call shifts can be long and sometimes hours are long and difficult. Despite the challenges, I absolutely love what I do.

**Vocabulary Related to THE CARDIOVASCULAR SYSTEM**

Word Parts	Meanings
atrial fibrillation = Afib	Afib = atrial fibrillation
automated external defibrillator = AED	AED = automated external defibrillator
cardiac catheterization = card cath, CC	card cath, CC = cardiac catheterization
chronic venous insufficiency = CVI	CVI = chronic venous insufficiency
coronary artery bypass graft = CABG	CABG = coronary artery bypass graft
coronary artery disease = CAD	CAD = coronary artery disease
electrocardiogram = EKG, ECG	EKG, ECG = electrocardiogram
hypertension = HTN	HTN = hypertension
implantable cardioverter-defibrillator = ICD	ICD = implantable cardioverter-defibrillator
myocardial infarction = MI	MI = myocardial infarction
peripheral artery disease = PAD	PAD = peripheral artery disease

[ABOVE] Health Profession Profile  
 [TOP] Table 5.4: Abbreviations Related to the Cardiovascular



Medical Terminology for Health Professions is listed as a recommended resource for the HOSA Teamwork Event **HOSA Bowl** as well as the **Academic Testing Center** for Medical Terminology.



Medical Terminology for Health Professionals aligns with these YouScience Industry Certifications:

- Medical Terminology
- Medical Assistant: Medical Terminology

### INCLUDES

- Student Edition
- MindTap Online Learning Solution — One learning path contains the following:
  - » Interactive eTextbook w/ ReadSpeaker
  - » Pronounce App (records your voice and provides feedback)
  - » Formative and Summative Assessment
  - » Learning Labs Health Care Simulations
  - » Flashcards
  - » Study Hub
  - » Animations
  - » Videos
  - » Audio of Terminology
  - » Image Labeling
  - » Pronunciation Tests
  - » Progress App
- Cengage Testing, Powered by Cognero
- Instructor's Resource Companion Site
  - » Instructor's Manual
  - » Answer Keys
  - » Standards Correlations
  - » Educator's Guide
  - » PowerPoint Slide

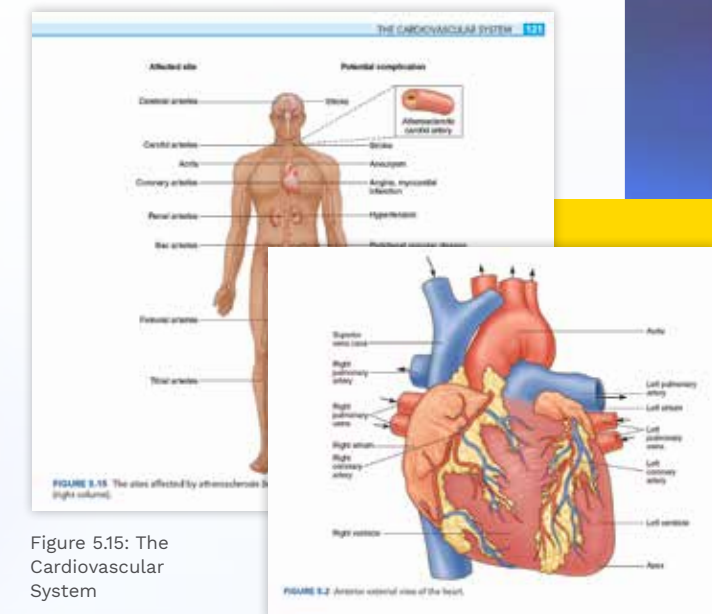


Figure 5.15: The Cardiovascular System

Figure 5.2: Anterior external view of the heart

### CONTENTS

Chapter 1	Introduction to Medical Terminology
Chapter 2	The Human Body in Health and Disease
<b>Word Part Review</b>	
Chapter 3	The Skeletal System
Chapter 4	The Muscular System
Chapter 5	The Cardiovascular System
Chapter 6	The Lymphatic and Immune Systems
Chapter 7	The Respiratory System
Chapter 8	The Digestive System
Chapter 9	The Urinary System
Chapter 10	The Nervous System and Mental Health
Chapter 11	Special Senses: The Eyes and Ears
Chapter 12	Skin: The Integumentary System
Chapter 13	The Endocrine System
Chapter 14	The Reproductive Systems
Chapter 15	Diagnostic Procedures, Pharmacology, and Complementary Medicine

### Comprehensive Medical Terminology Review

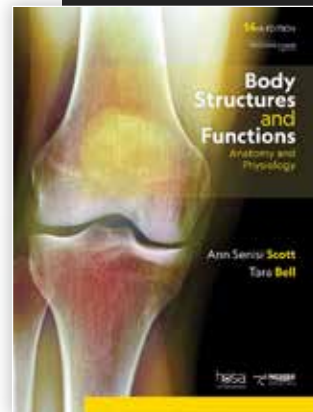
Appendix A:	Prefixes, Combining Forms, and Suffixes
Appendix B:	Abbreviations and Their Meanings
Appendix C:	Terms Related to Diagnosis, Pathology, and Procedures

# BODY STRUCTURES AND FUNCTIONS— ANATOMY AND PHYSIOLOGY, 14E

**\$127.423 Anatomy and Physiology**

Reflecting the latest research and practices, *Body Structures And Functions — Anatomy and Physiology*, 14th edition, provides a thorough overview of the basics required for the study of the human body and how it functions. With an all-new Chapter 1: Scientific Foundations and Lab Practices, the 14th edition is aligned to National Healthcare Foundation Standards as well as the Texas Essential Knowledge and Skills to meet the needs of future health professionals as well as scientific laboratory requirements. The text walks students step-by-step through a general introduction to life functions, terminology and phonetic pronunciations used to describe body parts, and a review of human development and body processes. The One Body feature describes the interrelationship between all body systems while Career Profiles give students insight into growing health care professions. In addition, diverse artwork has been added to update photographs, drawings, and figures to showcase patients with a more realistic view of human bodies varying in age, race, weight, height and gender.

MindTap, the online solution for Career and Technical Education, includes a full, interactive eBook, annotation and study tools, videos, practice and auto-graded assessment as well as Learning Lab simulations for Anatomy & Physiology, designed to immerse and engage students in real-world scenarios with health care professionals and patients as they describe symptoms across the body systems and engage in learning activities to understand anatomy basics and clinical applications.



Ann Senisi Scott,  
Tara Bell  
14th Edition, ©2022  
9798214074047

## WHAT'S NEW

- **All-New Chapter 1 Scientific Foundations and Lab Practices** guide students through the history of science from the Scientific Revolution to medical breakthroughs in the 21st Century as they learn how to work well in groups for laboratory work as well as successful methods for lab and field practices and experiments.
- **Tables** in Chapter 1 highlight important scientific discoveries and influential scientists, with a focus on diverse figures including Katherine Johnson and Neil deGrasse Tyson.
- **Diverse Artwork** has been added to update photographs, drawings, and figures to showcase diverse patients to offer a more realistic view of human bodies varying in age, race, weight, height and gender.
- **Additional Lab Activities** have been added to each chapter including even more hands-on activities as students meet an objective with step-by-step instructions from analyzing microscopic slides, to labeling anatomical charts, to taking clinical experiments.
- The **Student Workbook** has been updated throughout and includes additional “Theory to Practice” activities that mimic those at the end of each chapter.
- An **Online Spanish Glossary** is included on the companion site for native Spanish speakers.



*Body Structures and Functions* is listed as a recommended resource for the HOSA **Academic Testing Center** Anatomy & Physiology Exam.

## FEATURES

- **One Body** outlines how each body system interacts with other body systems so that students make connections between chapters.
- **Phonetic Pronunciations** of key words throughout helps students not only practice medical terminology relating to A&P, but also encourage correct pronunciation for professional conversations.
- **Career Profiles** in each chapter highlight future careers related to each body system.
- **Medical Highlights** provide information on technology, innovations, discoveries, and bioethical issues in research and medicine.
- **Theory to Practice** activities at the end of each chapter and in the student workbook are mini-activities where students apply concepts with real-world scenarios, critical thinking questions, additional research, and mini projects.
- **Case Studies** at the end of each chapter offers real-world scenarios with critical thinking questions that ask students to problem solve and review chapter concepts.
- **Effects of Aging** in each chapter take note of how we can expect body systems to change over the human lifespan.

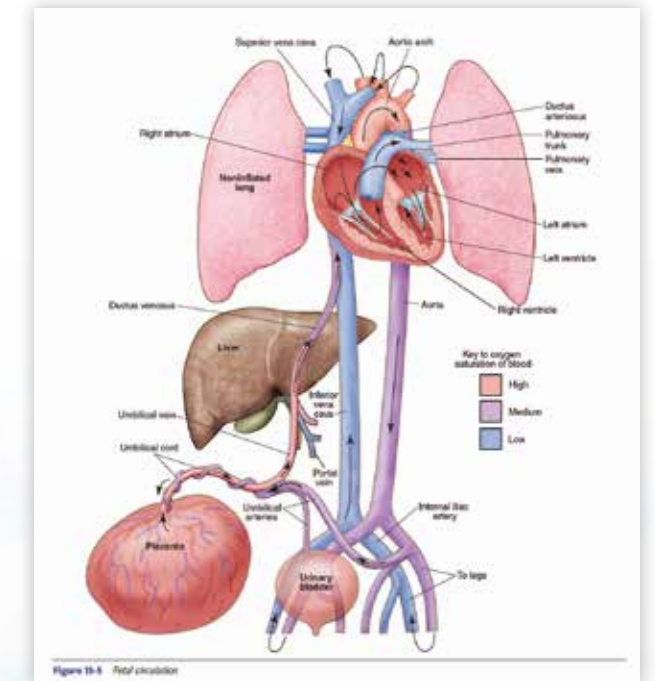


Figure 15-4: Fetal circulation

### One BODY

How the Cardiovascular System Interacts with Other Body Systems

<p><b>INTEGUMENTARY SYSTEM</b></p> <ul style="list-style-type: none"> <li>• The capillary network in the skin helps maintain body temperature.</li> </ul> <p><b>SKELETAL SYSTEM</b></p> <ul style="list-style-type: none"> <li>• Red bone marrow produces blood cells.</li> <li>• The bones of the thoracic cavity protect the heart and major blood vessels.</li> </ul> <p><b>MUSCULAR SYSTEM</b></p> <ul style="list-style-type: none"> <li>• The action of the muscles helps return venous blood to the heart.</li> </ul>	<p><b>NERVOUS SYSTEM</b></p> <ul style="list-style-type: none"> <li>• The autonomic nervous system influences the heart rate and blood pressure.</li> </ul> <p><b>ENDOCRINE SYSTEM</b></p> <ul style="list-style-type: none"> <li>• The blood serves as the transport medium for hormones produced by the endocrine system.</li> <li>• The hormones adrenaline and thyroxine affect the heart rate.</li> </ul> <p><b>LYMPHATIC SYSTEM</b></p> <ul style="list-style-type: none"> <li>• Lymphocytes are carried by the blood to sites of infection and inflammation.</li> </ul> <p><b>RESPIRATORY SYSTEM</b></p> <ul style="list-style-type: none"> <li>• The exchange of gases between carbon dioxide and oxygen takes place in the capillary network of the lungs.</li> </ul>	<p><b>DIGESTIVE SYSTEM</b></p> <ul style="list-style-type: none"> <li>• Blood picks up the end products of digestion for distribution to other organs of the body.</li> </ul> <p><b>URINARY SYSTEM</b></p> <ul style="list-style-type: none"> <li>• Blood pressure affects the filtration rate in the kidneys.</li> <li>• As the blood is filtered through the kidneys, waste products, excess electrolytes, and excess fluid are removed; this action preserves blood volume.</li> </ul> <p><b>REPRODUCTIVE SYSTEM</b></p> <ul style="list-style-type: none"> <li>• Estrogen maintains vascular health in women.</li> <li>• Engorgement of the blood vessels in the male maintains erection of the penis.</li> </ul>
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One Body

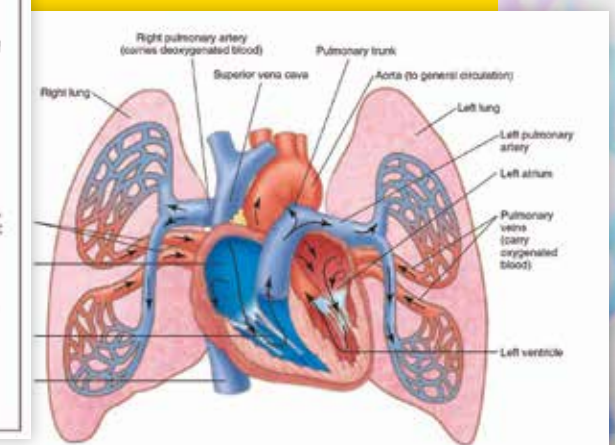


Figure 15-2: Cardiopulmonary circulation

Figure 15-2: Cardiopulmonary circulation

► Visit [NGL.Cengage.com/TXHealthScience](https://www.ngl.cengage.com/TXHealthScience) to learn more.

# BODY STRUCTURES AND FUNCTIONS— ANATOMY AND PHYSIOLOGY, 14E

for Scientific Foundations and Future Health Professionals

## CONTENTS

Chapter 1	Scientific Foundations and Lab Practices
Chapter 2	Introduction to the Structural Units
Chapter 3	Chemistry of Living Things
Chapter 4	Cells
Chapter 5	Tissues and Membranes
Chapter 6	Integumentary System
Chapter 7	Skeletal System
Chapter 8	Muscular System
Chapter 9	Central Nervous System
Chapter 10	Peripheral and Autonomic Nervous System
Chapter 11	Special Senses
Chapter 12	Endocrine System
Chapter 13	Blood
Chapter 14	Heart
Chapter 15	Circulation and Blood Vessels
Chapter 16	The Lymphatic and Immune Systems
Chapter 17	Infection Control and Standard Precautions
Chapter 18	Respiratory System
Chapter 19	Digestive System
Chapter 20	Nutrition
Chapter 21	Urinary System
Chapter 22	Reproductive System
Chapter 23	Genetics and Genetically Linked Diseases
Appendix A:	Metric Conversion Tables

## INCLUDES

- Student Edition
- MindTap Online Learning Solution — One learning path contains the following:
  - » Interactive eTextbook w/ ReadSpeaker
  - » Learning Labs Health Care Simulations
  - » Formative and Summative Assessment
  - » Flashcards
  - » Study Hub
  - » Animations
  - » Videos
  - » Audio of Terminology
  - » Image Labeling
  - » Pronunciation tests
  - » Progress App
- Print Student Workbook
- Cengage Testing, Powered by Cognero
- Instructor's Resource Companion Site
  - » Instructor's Manual
  - » Chapter Quizzes
  - » Test Bank
  - » Standards Correlations
  - » Educator's Guide
  - » PowerPoint Slides



*Body Structures and Functions* aligns to the *YouScience* Medical Anatomy and Physiology Industry Certification.

## OTHER HEALTH SCIENCE PROGRAMS FOR TEXAS

**Essentials of  
Pharmacology for  
Health Professions**  
9th Edition  
9780357994528



FOR \$127.425 PHARMACY I  
OR \$127.428 PHARMACOLOGY

The ideal resource for those preparing for licensed practical nursing, medical assisting and other allied health careers, this program delivers "need to know" drug information in a reader-friendly format that empowers students with the confidence to master pharmacology. Part I offers a comprehensive review of pharmacologic principles, while Part II covers specific drug classifications and their medical uses.

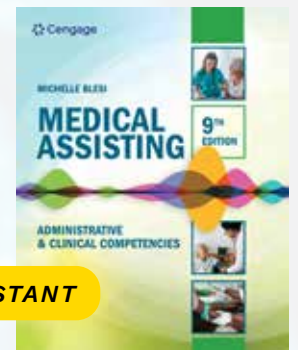
**Human Diseases**  
6th Edition  
9780357618042  
Off-List



\$127.424 PATHOPHYSIOLOGY

Designed specifically for allied health students, *Human Diseases* delivers comprehensive coverage packed with the latest research and developments from real-world practice. Extremely reader friendly, this best-selling pathophysiology text begins with a basic review of anatomy and physiology, then explores the diseases and disorders health care professionals see and treat most often.

**Medical Assisting:  
Administrative  
& Clinical  
Competencies**  
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