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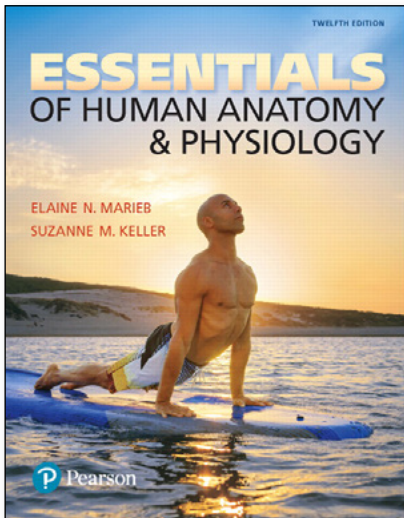
Essentials of Human Anatomy & Physiology

12th Edition, © 2018 Marieb and Keller
with *Mastering A&P* with Pearson eText

The image displays the Pearson eText interface across multiple devices. The laptop screen shows a quiz question titled "Primary: Functions of Blood Components" with the following text: "Identify the following components of blood to their descriptions?" Below this is a list of seven items to be identified in a matching exercise:

1. The liquid portion of your blood is called .
2. Erythrocytes, also called , are packed with hemoglobin and transport oxygen to body tissues.
3. Leukocytes, also called , function in fighting infections.
4. Several types of white blood cells are , which engulf bacteria and cellular debris.
5. are cell fragments involved in the process of blood clotting.
6. , also called antibodies, are plasma proteins that function in body defense.
7. are dissolved ions that function in maintaining proper pH and the blood.

The tablet screen shows a question: "In the figure, click on a portion of the system responsible for providing oxygen to the body getting rid of carbon dioxide." The smartphone screen shows a video player for "Electrocardiogram (ECG)". The book cover for "Essentials of Human Anatomy & Physiology, Twelfth Edition" by Elaine N. Marieb and Suzanne M. Keller is also visible in the bottom right corner.

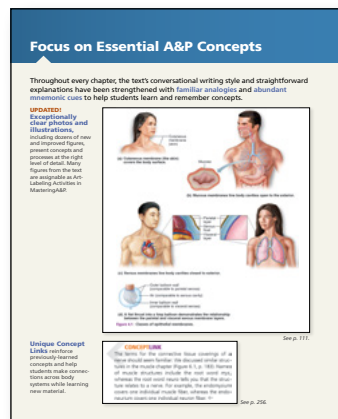
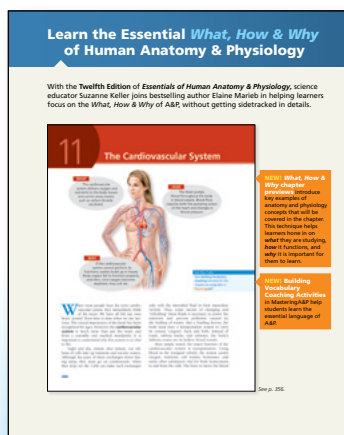


Helping learners understand the essentials.

Essentials of Human Anatomy & Physiology, 12th Edition, features a friendly, down-to-earth writing style that presents anatomy and physiology as a “story” that is easily understood and remembered. Highlighting clinical applications, this program prepares students for both college and careers.

Learn the essential what, how and why

What, How & Why chapter previews introduce key examples of anatomy and physiology concepts that will be covered in the chapter. This technique helps learners hone in on what they are studying, how it functions, and why it is important for them to learn. **NEW! Building Vocabulary Coaching Activities** in *Mastering A&P* help students learn the essential language of A&P.



Focus on essential A&P concepts

Throughout every chapter, the text’s conversational writing style and straightforward explanations have been strengthened with familiar analogies and abundant mnemonic cues to help students learn and remember concepts. **Exceptionally clear photos and illustrations**, including dozens of new and improved figures, present concepts and processes at the right level of detail. **Unique Concept Links** reinforce previously-learned concepts and help students make connections across body systems while learning new material.

To learn more about this program including components and *Mastering*

Explore essential careers and clinical examples

To inspire and inform students who are preparing for future healthcare careers, up-to-date clinical applications are integrated in context with discussions about the human body.

UPDATED! Homeostatic Imbalance discussions are clinical examples that revisit the text's unique theme by describing how the loss of homeostasis leads to pathology or disease. Related assessment questions are assignable in *Mastering A&P*, along with Clinical Case Study coaching activities.

Focus on Careers essays feature conversations with working professionals and explain the relevance of anatomy and physiology course topics across a wide range of allied health careers. Featured careers include:



Chapter 2 Pharmacy Technician
Chapter 4 Medical Transcriptionist
Chapter 5 Radiologic Technologist
Chapter 8 Physical Therapy Assistant
Chapter 10 Phlebotomy Technician
Chapter 15 Licensed Practical Nurse
Students can visit the *Mastering A&P* Study Area for more information about career options that are relevant to studying anatomy and physiology.

Homeostatic Imbalance 7.11
In difficult deliveries, temporary lack of oxygen may lead to **cerebral palsy** (paw'ze), but this is only one of the suspected causes. Cerebral palsy is a neuromuscular disability in which the voluntary muscles are poorly controlled and spastic because of brain damage. About half of its victims have seizures, are intellectually disabled, and/or have impaired hearing or vision. Cerebral palsy is the largest single cause of physical dis-

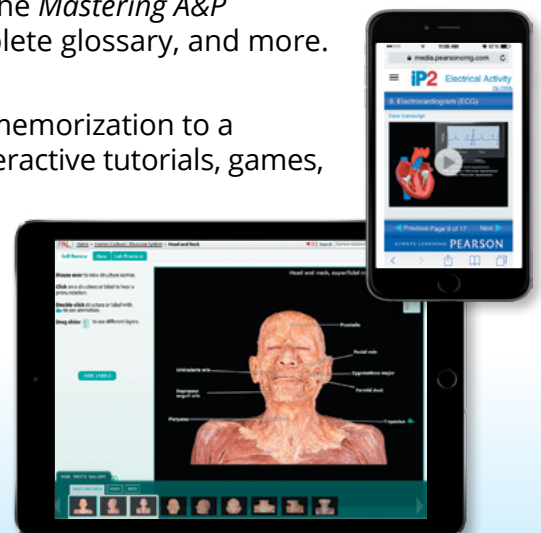


A&P concepts come to life with *Mastering A&P*

Media references in the text direct learners to digital resources in the *Mastering A&P* Study Area, including practice tests and quizzes, flashcards, a complete glossary, and more.

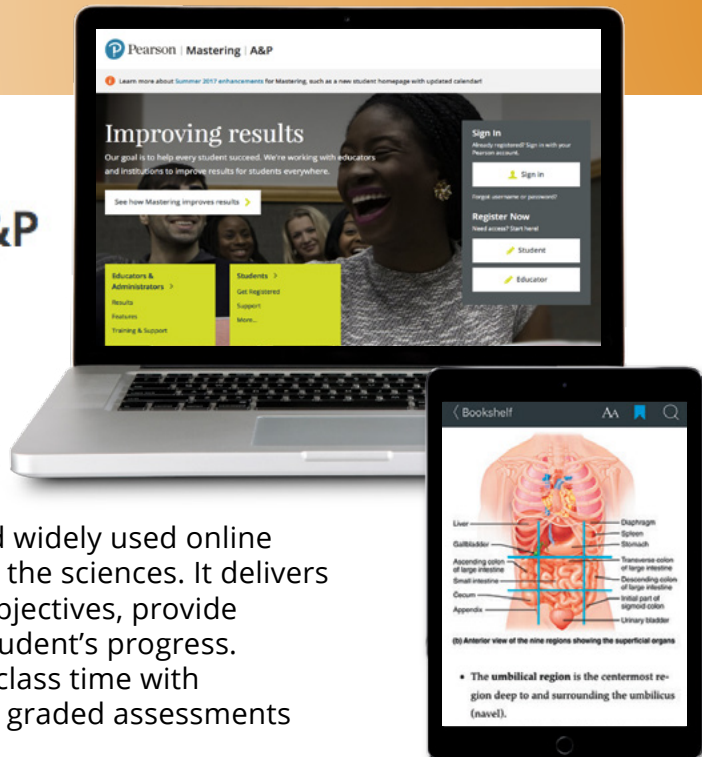
NEW! Interactive Physiology 2.0 helps students advance beyond memorization to a genuine understanding of complex physiological processes. Fun, interactive tutorials, games, and quizzes give students additional explanations to help them grasp difficult concepts. IP 2.0 features brand-new graphics, quicker navigation, and more robust interactivity.

Practice Anatomy Lab (PAL™ 3.0) is a virtual anatomy study and practice tool that gives students 24/7 access to the most widely used lab specimens, including the human cadaver, anatomical models, histology, cat, and fetal pig. PAL 3.0 is easy to use and includes built-in audio pronunciations, rotatable bones, and simulated fill-in-the-blank lab practical exams.



Pearson | Mastering | A&P

Designed with the single purpose of helping your students reach more moments of true understanding that lead to better results.



The *Mastering* platform is the most effective and widely used online homework, tutorial, and assessment system for the sciences. It delivers self-paced tutorials that focus on your course objectives, provide individualized coaching, and respond to each student's progress. The *Mastering* system helps teachers maximize class time with easy-to-assign, customizable, and automatically graded assessments that motivate students to learn.

Pearson eText gives students access to the text whenever and wherever they can access the Internet. eText features include:

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- Seamlessly integrated videos and other rich media.
- Built-in reference tools include glossary definitions for selected terms and hide-and-reveal suggested answers to "Did You Get It?" questions.
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Instructor's Resource DVD with TestGen	ONLINE ONLY
Essentials of Human Anatomy & Physiology Lab Manual, 7e	9780134424835
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To learn more about this program including components and *Mastering A&P* with Pearson eText, visit www.PearsonSchool.com/Advanced



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