

Applied Anatomy & Physiology

A Case Study Approach

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New!

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Features

- Emphasizes real-world applications of anatomy and physiology concepts
- Organizes chapter content into short sections that end with three or four questions to quickly assess students' comprehension
- Immediately captures students' attention and interest with a "Case Study Investigation" at the beginning of each chapter that presents a brief medical mystery involving the body system to be studied. "CSI Break" hints and questions throughout the chapter help students solve the mystery while reinforcing major points of knowledge
- Stimulating sidebars stress the importance of health workers' civic responsibility, strong ethics, and an awareness of cutting edge medical research
- End-of-chapter activities address critical thinking, practical application, comprehension, Internet research, and the foundation lab skills necessary for success in health careers
- Packaged with an easy-to-use Encore CD that presents key anatomy structures and physiological processes in engaging Flash animations along with quizzes, flash cards, and glossary terms
- Companion workbook complements and reinforces text instruction with an inviting array of activities, including illustrations to label and color, practical exercises, crossword puzzles, and chapter quizzes

Components

Text and Encore Multimedia CD

- ◆ Flash animations teaching key anatomy concepts and physiological processes
- ◆ Quizzes in Practice and Test modes

- ◆ Glossary and Image Bank
- ◆ Flash Cards
- ◆ Crossword Puzzles

Full-color Workbook

- ◆ Completion and matching exercises
- ◆ Illustrations to color and label
- ◆ Practical applications exercise requiring critical thinking
- ◆ Crossword puzzles
- ◆ Chapter quizzes

Printed Instructor's Guide and Companion CD

- ◆ Course planning tools, including sample syllabi
- ◆ Teaching hints
- ◆ Model answers
- ◆ Assessment tools and guidelines

Test Generator and Item Bank

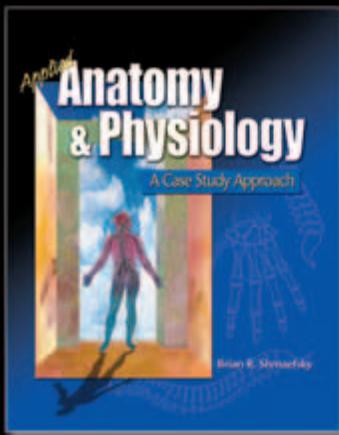
Internet Resource Center at www.emcp.com

Additional teaching and learning materials for instructors and students

Class Connections (WebCT and Blackboard platforms)

Contents (Text and Workbook)

Chapter 1	Overview of the Human Body
Chapter 2	The Body's Chemical Makeup
Chapter 3	Organization of the Body
Chapter 4	The Skin and Its Parts
Chapter 5	The Skeleton
Chapter 6	Musculature
Chapter 7	Endocrine Glands and Hormones
Chapter 8	Function of the Nervous System
Chapter 9	Structure of the Nervous System
Chapter 10	The Respiratory System
Chapter 11	Cardiovascular System Function and Structure
Chapter 12	Lymphatic System and the Blood
Chapter 13	Function and Structure of the Digestive System
Chapter 14	Function and Structure of the Urinary System
Chapter 15	The Reproductive System and Human Development



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Sample Chapter Review (Chapter 1)

Front Matter: In addition to the table of contents, read the **preface** to get an overview of the author's goals in writing the book and its key features.

Case Study Investigation (p. 2): A brief scenario of a medical event invites the student to try to determine, based on the anatomy and physiology concepts presented in the chapter, the cause of the problem and the parts and processes of the body it affects. The name and design of this element create an association with the popular TV program, *CSI*.

Chapter Outline (p. 3): This list of major headings in the chapter maps the content to provide a learning preview.

Applied Learning Outcomes (p. 3): Presented in practical terms, the learning outcomes identify the results students can expect from studying the chapter.

Content Sections (pp. 4, 8, 10, 13, 15, 16, 18): Chapter content is offered in short, concise sections that focus attention on major points. "Concept Checks" end each section with questions that help students determine if they have understood the vital ideas.

Key Terms (pp. 4, 8, 10, 13, 15, 16, 18): Rather than grouping all of the key terms only at the beginning or end of the chapter, this book presents them at the start of each major content section, making vocabulary learning easier and more accessible. Definitions are provided in the margins, and a complete list of terms (p 23), grouped by topic subheads, appears at the end of the chapter.

Art (pp. 5, 6, 7, 9, ff): Illustrations and photos portray concepts to aid students' understanding of body parts and processes and to provide breaks in reading.

Sidebars (p. 4, 6, 7, 12, 14, 19): Intriguing snapshots of information on the topics of civic responsibility, ethical choices, and cutting edge research.

CSI Break (pp. 7, 14, 18, 20): At the end of major content sections, these questions and clues help students gradually solve the mystery presented in the Case Study Investigation.

Topic Boxes (pp. 4, 7, 13, 14): Interesting and important concepts closely related to the topics of major sections are highlighted in discrete content boxes.

Case Study Investigation Conclusion (p. 21): An explanation of the effects of the problem presented at the beginning of the chapter helps students determine if their conclusion was correct and why or why not.

Chapter Summary (p. 22): The opening element of the chapter "Study Guide," this summary offers a comprehensive, bulleted outline of the concepts students should take away from their study of the chapter.

Check Your Understanding (pp. 24-26): The first exercise in the end-of-chapter "Study Guide," this set of multiple-choice items tests student comprehension of major concepts.

Case Study (p. 26): A thought-provoking and realistic scenario challenges students to use their understanding of the chapter along with information at Web sites (URLs provided) to solve the problem.

Where Do We Go From Here? (p. 27): A collection of brief, real-world situations require students to apply their new knowledge and explore additional information sources to identify how they would act or respond to the situation.

Skills Activities (p. 27): The final chapter exercise is a two-part activity involving hands-on application of concepts or anatomy and physiology laboratory skills.