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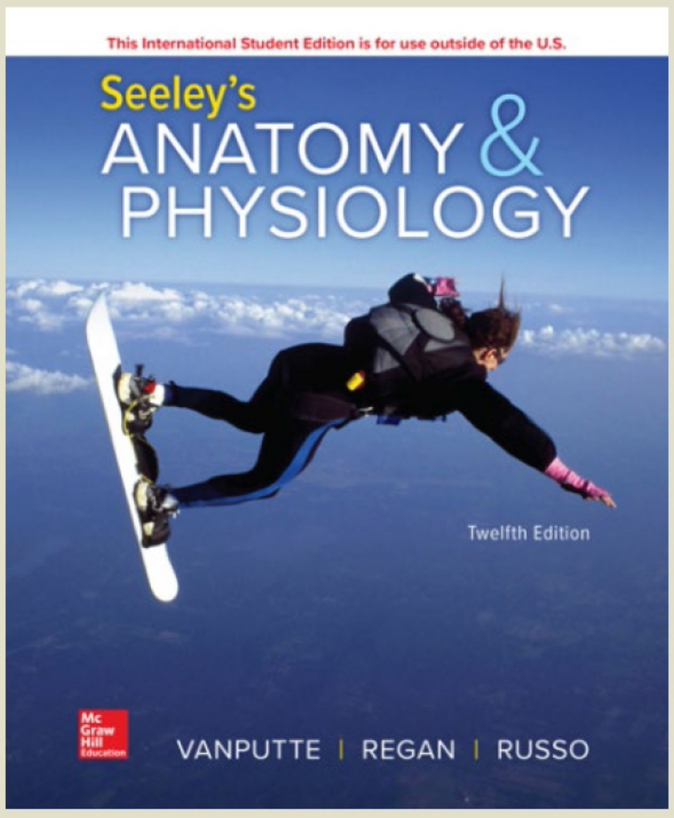

Seeley's Anatomy and Physiology
12th Edition (ISE)
Vanputte

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AVAILABLE IN:

Mc Graw Hill connect®

OVERVIEW:

This text is written for the two semester anatomy & physiology course. *Seeley's A&P* writing is comprehensive, providing the depth necessary for those courses not requiring prerequisites, and yet, is presented with such clarity that it nicely balances the thorough coverage. Clear descriptions and exceptional illustrations combine to help students develop a firm understanding of the concepts of anatomy and physiology and to teach them how to use that information. Great care has been taken to select important concepts and to perfectly describe the anatomy of cells, organs, and organ systems. To emphasize the concepts of anatomy and physiology, the *Seeley's A&P* authors provide explanations of how the systems respond to aging, changes in physical activity, and disease, with a special focus on homeostasis and the regulatory mechanisms that maintain it. This text has more clinical content than any other A&P book on the market.

An emphasis on critical thinking is integrated throughout this textbook. This approach is found in questions that begin each chapter and those embedded within the narrative; in clinical material that is designed to bridge concepts explained in the text with real-life applications and scenarios; in end-of-chapter questions that go beyond rote memorization; and in a visual program that presents material in understandable, relevant images, with application questions that follow each Process Figure.

In this edition, we are very pleased to have been able to incorporate real student data points and input, derived from thousands of our LearnSmart/SmartBook users, to help guide our revision. LearnSmart Heat Maps provided a quick visual snapshot of usage of portions of the text and the relative difficulty students experienced in mastering the content. With this data, we were able to hone not only our text content but also the adaptive questions

Features in the 12th Edition
Vanputte: *Seeley's Anatomy and Physiology*

KEY CHANGES, FEATURES AND DIGITAL RESOURCES

Seeley's A&P has a problem solving critical thinking system, as a hallmark feature of the text. Pedagogy like "in-chapter review questions", in-chapter 'Predict' questions, end-of-chapter 'Review' and 'Comprehension' questions and end-of-chapter 'Critical Thinking' questions comprise the problem solving critical thinking system.

NEW APPENDIX C: GENETIC CODE
NEW: EACH PROCESS FIGURE NOW INCLUDES A QUESTION FOLLOWING THE FIGURE LEGEND This helps students think about and apply the knowledge into everyday context. The answers to these Process Figure questions are found in Appendix D, which is new to the Twelfth Edition.

CHAPTER OPENERS INCLUDE A FOCUS ON MAINTENANCE OF HOMEOSTASIS, a major underlying theme of the book. Chapter openers have been revised to link the opening photo with *Learn to Predict* and chapter introduction. This provides a cohesive theme for better student learning and engagement.

HOMEOSTASIS FIGURES: Colored arrows throughout every figure links them together to create consistency throughout the text. All homeostasis figures were revised to draw a correlation between the figure and the text description of feedback system components.

VISUALS, TEXT AND CADAVER PHOTOS INCORPORATED: It is *Seeley's A&P's* goal to "spark interest and facilitate understanding" with its illustration program. The authors uses cadaver images mixed with illustrations to draw students in. Art and figures have been through hundreds of accuracy reviews. All artwork features multi-level perspective, realistic anatomical art, combination art, self-contained process figures, and homeostasis summary to help facilitate your students understanding.

NEW: ANSWERS TO EVEN-NUMBERED PREDICT QUESTIONS These can now be accessed by instructors in Connect, allowing instructors to assign these questions if desired. Answers to odd-numbered Predict questions appear in Appendix E

GENETICS COVERAGE: To prepare students to understand the relationship between genetics and many of the cases they may encounter in health-related careers, the basics of genetics is covered in Chapter 29.

CLINICAL IMPACT READINGS: When problems in structure and/or function of the human body occur, this is often the best time to comprehend how the two are related. The *Clinical Impact* boxes are carefully placed within the chapter content to expand upon the section in clinical application. Much emphasis has been put on these readings to make sure we are always bringing the most relevant and up-to-date information to the student.

DISEASES AND DISORDERS TABLES: Lists of diseases can be found in succinct tables following the appropriate Clinical Impact reading. Additional relevant diseases and disorders are listed online for students.

LEARNING OUTCOMES AND ASSESSMENT: Carefully written to clearly outline expectations and test comprehension, the **Learning Outcomes** and ***Assess Your Progress*** questions will assist students to gain the most they can from their textbook. They are numbered to correlate with ***Learn to predict*** questions which are specially written to take knowledge acquired from previous chapters, and tie it into content in the current chapter. and end of chapter questions. These teach students step-by-step how to answer a higher order thinking/application question. This is foundational to real learning and is a critical part of helping students put facts together to reach that "Aha" moment of true comprehension.

MICROBES IN YOUR BODY: This feature introduces students to the human microbiome, and the microorganisms which exist in and on us, providing many beneficial aspects to our lives. Diseases resulting from disturbed microbes are also discussed.

DIGITAL RESOURCES

ANATOMY AND PHYSIOLOGY | REVEALED® (APR)
Students around the world are improving their grades using this award-winning virtual dissection program that offers "melt-away" layers of dissection, animations, imaging, and self-testing to study cadaver, cat, or fetal pig specimens. The appropriate section, or body system, within the tutorial is listed on all applicable chapter opening pages. Customized Structure Lists in APR allow instructors to focus study time for their students to those structures most essential to successful completion of the course.

Features in the 12th Edition
Vanputte: *Seeley's Anatomy and Physiology*

LEARNSMART PREP: Improve preparation for the course and increase student success with the only adaptive Prep tool available for students today. Areas of individual weaknesses are identified in order to help students improve their understanding of core course areas needed to succeed.

PhiLS: Bringing to life complex processes is a challenge. Ph.I.L.S. 4.0 is the perfect way to reinforce key physiology concepts with powerful lab experiments.

PRACTICE ATLAS FOR ANATOMY & PHYSIOLOGY is a new interactive tool that pairs images of common anatomical models with stunning cadaver photography. This atlas allows students to practice naming structures on both models and human bodies, anytime and anywhere. This is available within Connect with eBook.

NEW SMARTBOOK 2.0*: An adaptive study and reading tool designed to help students stay focused and maximize their study time. Based on metacognition, SmartBook's adaptive capabilities provide a personalized reading and learning experience that helps students identify the concepts they know, and more importantly, the concepts they don't know. For instructors, SmartBook 2.0 tracks student progress and provides insights that guide teaching strategies and advanced instruction focused on a more dynamic class experience.

NEW EBOOK AND READANYWHERE APP*: An offline and downloadable eBook accessible in Connect or through the **ReadAnywhere app** where students can download just a chapter at a time or the whole book**.** It includes all the functionality your students need including:

- 'Read Speaker' –the text-to-speech tool
- Note taking functionality
- Highlighting capabilities

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For more information, contact us at
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