

State of Florida Instructional Materials Adoption Publisher Questionnaire (Form IM8)

BID #: 777
SUBMISSION TITLE: Body Structures and Functions
GRADE LEVEL: 09-12
COURSE TITLE: Anatomy and Physiology
COURSE CODE #: 2000350
ISBN #: 979821407404 Print SE; 9788214093031 Ebook SE
PUBLISHER: Cengage Learning, Inc.
AUTHOR: Scott/Bell
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AUTHORS & CREDENTIALS: LIST FULL NAME OF AUTHOR(S), WITH MAJOR OR SENIOR AUTHOR LISTED FIRST. BRIEFLY PROVIDE CREDENTIALS FOR EACH AUTHOR.

Ann Senisi Scott - Ann Senisi Scott previously served as the Coordinator of Leadership Programs at Mount Mercy College, Cedar Rapids, Iowa. She also was the Coordinator of Health Occupations and Practical Nursing at Nassau Tech Board of Cooperative Education Services, Westbury, New York, where she was responsible for several health career programs offered at Nassau BOCES, including Practical Nursing, Nurse Assistance, Medical Assistant, Medical Lab Technician, Dental Assistant and Dental Lab. In addition, she worked to establish a career ladder program from health care worker to practical nurse. Before becoming the administrator of these programs, she taught Practical Nursing for more than 12 years.

Tara Pullman Bell, M.Ed - Tara Pullman Bell, M.Ed., is currently a CTE Campus Administrator for Cherry Creek School District in Greenwood Village, Colorado. She has a diverse background in multiple areas of the health sciences. Previously a member of the National Consortium for Health Science Education (NCHSE), Tara was also formerly the Health Science State Specialist for the Utah Board of Education, a health science teacher, HOSA Advisor, CTE coordinator, and the Program Director for Health Science and Public Safety for the Colorado Community College System.

STUDENTS: DESCRIBE THE TYPE(S) OF STUDENTS FOR WHICH THIS SUBMISSION IS INTENDED.

Body Structures and Functions 14e is intended for high school students studying Anatomy and Physiology.

1. LIST THE FLORIDA DISTRICTS IN WHICH THIS PROGRAM HAS BEEN PILOTED IN THE LAST EIGHTEEN MONTHS.

Body Structures and Functions 14e has not been piloted in Florida districts in the last 18 months.

2. HOW ARE YOUR DIGITAL MATERIALS SEARCHABLE BY FLORIDA'S ACADEMIC STANDARDS (SECTION 1006.33(1)(e), FLORIDA STATUTES)?

The eBook for *Body Structures and Functions 14e* has the Florida academic standards listed in the front of the book with associated page numbers next to the standard. The page numbers have active links to direct the student or teacher directly to the content in the eBook. The Search feature in the eBook can also be used for key word searches associated with standards. MindTap, National Geographic Learning/Cengage's online platform for teaching and learning with readings, assessments and interactivity has a Search feature to find content using language from the standard.

3. IDENTIFY AND DESCRIBE THE COMPONENTS OF THE MAJOR TOOL. The Major Tool is comprised of the items necessary to meet the standards and requirements of the category for which it is designed and submitted. As part of this section, include a description of the educational approach of the submission.

Educational Approach: (The information provided here will be used in the instructional materials catalog in the case of adoption of the program. Please limit your response to 500 words or less.)

Body Structures and Functions, 14e reflects expectations for the multiskilled health practitioners of today, teaching the knowledge and skills necessary to be successful in the health science and medical fields. Following chapters that cover the scientific foundations of anatomy and physiology - scientific investigations, life functions, chemistry of living things, tissues and membranes - each chapter studies a specific system in the human body, defining its parts, functions, characteristics, and significance in maintaining life. Also included are common diseases and disorders that affect each system. Chapters on infection control and standard precautions, nutrition, and genetics and genetically linked diseases are integrated into the content as appropriate. In addition, all chapters include pedagogical features, activities, and assessments that are intentionally scaffolded to support learning.

SE (Student Edition) Pedagogical Features include:

- **Alignment to NCHSE and Precision Exam Standards** validates content
- **Anatomical Review** reviews proper directional terms for specific body systems, while **Effects in Aging** describe how body systems change as we age, simultaneously reinforcing and extending student learning in context of chapter content
- **Did You Know?** shares trivia-like facts related to chapter content to further engage students in what they are learning
- **Medical Terminology** introduces students to common medical prefixes and suffixes and how they combine to form medical terms, and **Phonetic Pronunciations** follow all key terms in the chapter in parentheses so students can actively practice accurate communication using medical terminology
- **Career Profiles** describe professions in the health and medical field, providing insight into potential career paths and personalizing the learning experience for students
- **Medical Highlights** report on technology, innovations, discoveries, and bioethical issues in research and medicine to provide students with current and relevant information
- **Media Links and Study Tools** connect chapter content to online resources, animations, and other available resources to further support student learning
- **Diversity in Education** reflects human diversity, representing all body types, genders, ages, and skin tones to effectively educate students on how to care for all patients

SE (Student Edition) Activities and Assessments include:

- **Review Questions** evaluate students' ability to recall key concepts
- **Applying Theory to Practice** and **Short Answer** questions evaluate students' understanding of key concepts
- **Case Studies** and critical thinking questions evaluate students' ability to apply their understanding of key concepts to specific medical cases
- **Lab Activities** authentically evaluate students' ability to apply and analyze key concepts through investigation and experimentation

Course Component Offerings

To fully support teaching and learning, course components consist of a Student Edition, Instructor's Manual, Student Workbook, a Companion Site, including Testing by Cognero, and an accompanying MindTap with Learning Lab simulations.

Major Tool - Student Components Describe each of the components, including a format description.

The Major Tool is the Student Edition as described in #5 above. The program begins by introducing foundational scientific knowledge and skills to help set the student on a path of success in their study of Anatomy and Physiology (A&P). Chapters 2 and 3 allow students to learn the structural units of A&P and the fundamental chemistry of living things. Chapters 4 and 5 cover cells, tissues and membranes so that students understand the building blocks of the structures of human body. Chapters 6 through 22 cover the various systems in addition to a chapter on blood, the heart, and nutrition. The last chapter is a shorter one on genetics and linked diseases concluding the program.

Chapters are designed with an beginning with Objectives and Key Words to ensure students have clarity in what they will be learning in that unit. A clear two-column format along with richly colored and clear illustrations provide pedagogical support for student learning. Key works are in bold red to stand out for students and include pronunciations. The various features, as described in #6 on Educational Approach, skillfully engage students and provide key learnings to help in their learning. Medical Terminology, Study Tools, Review Questions, and various other assessments conclude each chapter to reinforce and ensure successful understanding of the content.

All of this book content is also in the MindTap online learning platform.

BODY STRUCTURES AND FUNCTIONS REVISED STUDENT EDITION

Body Structures and Functions MindTap 5-year access

Body Structures and Functions MindTap 1-year access

Major Tool - Teacher Components Describe each of the components, including a format description.

The Teacher Components are all found online in the **Teacher Companion** site. The Teacher Companion Site will include the following tools and resources for the teacher:

- The MindTap Educator's Guide - A useful teacher companion to learn about all the features and use the online learning platform
- Instructor's Manual - Overview and guide to help teaching and all answers and suggested answers to exercises in the program
- Chapter Quizzes and Test Bank - Assignable chapter assessments, both formative and summative
- Cognero Test Generator - A rich assessment resource for formative and summative assessments that is fully customizable and printable
- PowerPoints - Useful presentation decks to help with class instruction
- Correlations to national standards

4. IDENTIFY AND DESCRIBE THE ANCILLARY MATERIALS. Briefly describe the ancillary materials and their relationship to the major tool.

Ancillary Materials - Student Components Describe each of the components, including a format description.

Body Structures and Functions - Anatomy and Physiology, 14th Student Workbook - The student workbook includes activities that focus on applied academics through practical application exercises, including multiple choice, fill in the blanks, matching, labeling, word puzzles, basic skill and theory to practice questions, and a Browse-the-Net feature.

MindTap for the 14th edition of *Body Structures and Functions* is the online learning solution for career and technical education courses that helps teachers engage and transform today's students into critical thinkers. Through paths of dynamic assignments and applications that you can personalize, real-time course analytics, and an interactive eBook, MindTap helps teachers organize and engage students. Whether you teach this course in the classroom or in hybrid/e-learning models, MindTap for *Body Structures and Functions* enhances the course experience with animations and videos; Learning Lab Simulations, which offer hands-on decision making practice as students view real medical professionals working with patients; data analytics with engagement tracking; and student tools, such as flashcards, practice quizzes, auto-graded homework, and tests.

Ancillary Materials - Teacher Components Describe each of the components, including a format description.

The Teacher Components are all found online in the **Teacher Companion** site. The Teacher Companion Site will include the following tools and resources for the teacher:

- The MindTap Educator's Guide - A useful teacher companion to learn about all the features and use the online learning platform
- Instructor's Manual - Overview and guide to help teaching and all answers and suggested answers to exercises in the program
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- Correlations to national standards

5. IDENTIFY WHICH INDUSTRY STANDARD PROTOCOLS ARE UTILIZED FOR INTEROPERABILITY?

MindTap, National Geographic Learning/Cengage's online portal for teaching and learning, has been certified by IMS Global at the v1.3 LTI Advantage interoperability level.

6. HOW MUCH INSTRUCTIONAL TIME IS NEEDED FOR THE SUCCESSFUL IMPLEMENTATION OF THIS PROGRAM? Identify and explain the suggested instructional time for this submission. If a series, state the suggested time for each level. The goal is to determine whether the amount of content is suitable to the length of the course for which it is submitted.

This program is aligned to either a half-year or a full-year course. Lessons, activities, and review questions are designed to be flexible and to provide the teacher with the opportunity to extend or shorten the time spent on lessons as needed.

7. WHAT PROFESSIONAL DEVELOPMENT IS AVAILABLE? Describe the ongoing learning opportunities available to teachers and other education personnel that will be delivered through their schools and districts as well as the training/in-service available directly from the publisher for successful implementation of the program. Also provide details of the type of training/in-service available and how it may be obtained. (The information provided here will be used in the instructional materials catalog in the case of adoption of the program.)

Please refer to the Florida Customer Care package attached. The file title is:

Updated.FL.CustomerCarePackage.Science

8. WHAT HARDWARE/EQUIPMENT IS REQUIRED? List and describe the hardware/equipment needed to implement the submission in the classroom. REMEMBER: Florida law does not allow hardware/equipment to be included on the bid; however, schools and districts must be made aware of the hardware/equipment needed to fully implement this program.

MindTap System Requirements

Operating Systems

- Windows - Windows 7, 8, 8.1, 10
- Macintosh - OS X 10.10 -10.11
- Chrome - Chrome OS
- Mobile - iOS 6+, Android (see below note for browsers)

Browsers

- Windows - Firefox (latest and next-to-latest version), Chrome (latest and next-to-latest version), Internet Explorer 11 (For Win 7 and 8.1 only), Microsoft Edge 13-14
- Macintosh - Firefox (latest and next-to-latest version), Chrome (latest and next-to-latest version), Safari 9.x+
- Mobile - Safari 9+ (may provide limited functionality). Firefox and Chrome are valid browsers for Android use, however usage is too low to warrant functionality testing. Thus, Android devices are not officially supported at this time.

Plug-Ins and Browser Settings

- First and third party cookies must be enabled within the browser.
- Popups must be enabled within the browser.
- Please Note: Beginning with version 45, Chrome no longer supports NPAPI plugins like Java or Silverlight. Users needing to run Java-based content in MindTap will be required to use an alternate browser.
- JavaScript must be enabled within the browser, which most browsers have installed and enabled by default.
- Adobe Reader is needed to print MindTap assignments and other content.

Hardware Requirements

- Minimum screen resolution of 1024 x 768.
- Intel® or AMD® CPU at 1.8GHz or better
- 1 GB of RAM

Bandwidth Requirements

- Minimum - 1Mbps Download
- Recommended - 5Mbps Download
- Users can test their connection speed by visiting the following link: <http://www.speedtest.net/index.php>

9. WHAT LICENSING POLICIES AND/OR AGREEMENTS APPLY? If software is being submitted, please attach a copy of the company's licensing policies and/or agreements.

Attached are two National Geographic Learning/Cengage policies: the MindTap licensing policy and the privacy policy.

[Cengage-Group-School-Terms_of-Use-January-2022.pdf](#)

[cengage-privacy-notice-october-2020-1508150.pdf](#)

10. WHAT STATES HAVE ADOPTED THE SUBMISSION? List any states in which this submission is currently adopted.

Body Structures and Functions is a new, revised edition and has not been adopted in other states.

11. WHAT OPEN EDUCATIONAL RESOURCES RELATED TO THIS BID DO YOU MAKE AVAILABLE(S)? List and describe each of the components, including a format description. (Open Educational Resources (OER) are high-quality, openly licensed, online educational materials that offer an extraordinary opportunity for people everywhere to share, use and reuse knowledge.)

Open Educational Resources (OER) are not included in the National Geographic Learning/Cengage bid.

12. ALTHOUGH NOT CALLED FOR IN THE STATE ADOPTION, DO YOU HAVE ADVANCED PLACEMENT (AP) OR ACCELERATED PROGRAM INSTRUCTIONAL MATERIALS AVAILABLE FOR THE COURSE(S) BID FOR ADOPTION?

National Geographic Learning/Cengage offers the following Advanced Placement and accelerated program instructional materials for high school science:

- AP Chemistry: Zumdahl, *Chemistry*, 11e (AP Edition) ©2024
- AP Biology: Starr, *Biology: The Unity and Diversity of Life*, 15e (Updated AP Edition) ©2023
- AP Physics 1 & 2: Serway, *College Physics*, 11e (AP Edition) ©2018
- AP Physics C: Serway, *Physics for Scientists and Engineers*, 10e (High School) ©2019
- Honors Environmental Science: Miller, *Environmental Science*, 16e ©2019
- AP Environmental Science: Miller, *Exploring Environmental Science for AP®*, 1e Enhanced Edition ©2024

13. WHAT, IF ANY, FOREIGN LANGUAGE TRANSLATIONS DO YOU HAVE AVAILABLE?

A Spanish translation is being worked on and may be available by request for districts.

14. DO YOU PROVIDE ACCESS POINT SCAFFOLDING OR AN ACCESS POINT CORRELATION UPON REQUEST?

Body Structures and Functions 14e fully aligns with the Florida science standards. Differentiated learning tools such as vocabulary support and chapter and lesson objectives' summaries appear at the chapter level and in individual lessons. Access Point correlations are available upon request.

15. ESSA LEVELS OF EVIDENCE: To be considered an evidence-based program (or practice), it is required to have evidence to show that the program is in fact effective at producing results and improving outcomes in reading when implemented. Identification of evidence level alignment, Levels 1-4 (as outlined in the specifications), for the entirety of the program, part of the program, or individual practices within the program is required. Please explain how your product meets these requirements.

National Geographic Learning/Cengage is committed to providing results-driven solutions to improve student outcomes. The Science editorial department believes in providing rigorous, challenging, engaging content that is accessible by every student.

The National Geographic Learning Science programs are developed with the expertise of highly regarded authors, subject matter experts, program consultants, editorial staff, and expert reviewers who ensure the implementation of the most recent research studies and pedagogy to promote student achievement. It is the goal of National Geographic Learning to ensure we reach every Florida student in every classroom.

For *Body Structures and Functions 14e*, the author and National Geographic Learning staff bring many years of pedagogical and field research into the program to ensure the content is rigorous yet accessible by all learners and for all learning styles.

The student edition offers many teaching strategies to support and challenge learners. **How to Study Using Body Structures and Functions** encourages students to utilize their senses to increase retention, including techniques such as visualization, reading, reciting, drawing, and engaging in the end of chapter activities and assessments. In addition, pedagogical features such as **Medical Terminology**, which introduces students to common medical prefixes and suffixes, and **phonetic pronunciations**, which follow all key terms in the chapters, ensure that all students are learning and communicating medical language accurately. A supporting **Teaching Strategies** document is also available, which highlights places in the student edition where teachers can activate prior knowledge through lessons and assessments to improve listening, speaking, reading, and writing skills for ELL students and other students who require extra support in these areas. To challenge students, end of chapter assessments and activities are intentionally scaffolded as students review, reread, learn, and reinforce their comprehension of key concepts. From simple to more complex, students start with basic recall questions then progress to more complex application and analysis questions and activities as they master the content - making even the more advanced concepts accessible to all students.

In addition to strategies incorporated in the student edition, MindTap, National Geographic Learning's online platform for teaching and learning, is rich in formative and summative assessment to measure reading and content comprehension and employs multiple modes of assessment. After each lesson, formative assessment measure comprehension of the content of the lesson as well as the building of literacy skills. Formative assessment is a mix of multiple choice and constructed responses. The entire chapter is reviewed.

National Geographic Learning is committed to providing results-driven solutions to improve student outcomes. National Geographic Learning focuses on the effective use of technology, strong student support, experienced and

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talented authors and consultants, frequent assessment, and student engagement through print and digital resources. With this foundation, National Geographic Learning supports the goals and outcomes of ESSA.