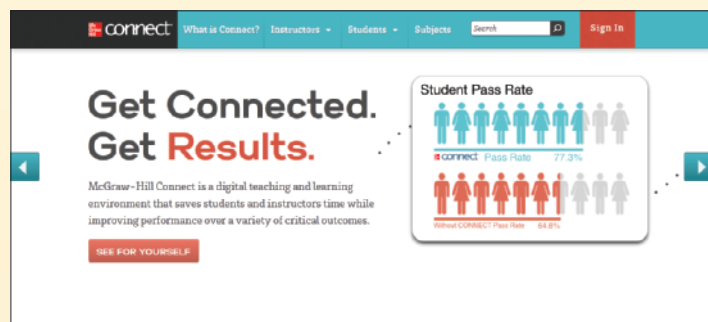


# Teaching and Learning Supplements

## NEW! McGraw-Hill LearnSmart™

McGraw-Hill LearnSmart™ is an online diagnostic learning system that determines the level of student knowledge and feeds the student suitable content for his or her physiology course. Students learn faster and study more effectively. As a student works within the system, LearnSmart develops a personal learning path adapted to what the student has learned and retained. LearnSmart is able to recommend additional study resources to help the student master topics. This innovative and outstanding study tool also has features for teachers where they can see exactly what students have accomplished, and a built-in assessment tool for graded assignments. For more information, go to [www.mhlearnsmart.com](http://www.mhlearnsmart.com).



## McGraw-Hill Connect® Anatomy & Physiology

This is a web-based assignment and assessment platform that gives students the means to better connect with their coursework, with their teachers, and with the important concepts that they will need to know for success now and in the future.

With Connect, teachers can deliver assignments, quizzes, and tests online. Questions are presented in an auto-gradable format and tied to the organization of the textbook. Teachers can edit existing questions and author entirely new problems. Track individual student performance—by question, assignment, or in relation to the class overall—with detailed grade reports. Integrate grade reports easily with learning management systems (LMS) such as WebCT and Blackboard. And much more. By choosing Connect, teachers are providing their students with a powerful tool for improving academic performance and truly mastering

course material. Connect allows students to practice important skills at their own pace and on their own schedule. Importantly, students' assessment results and teachers' feedback are all saved online—so students can continually review their progress and plot their course to success.

Some teachers may also choose ConnectPlus® for their students. Like Connect, Connect Plus provides students with online assignments and assessments, plus 24/7 online access to an eBook—an online edition of the text—to aid them in successfully completing their work, wherever and whenever they choose.



## McGraw-Hill LabSmart™

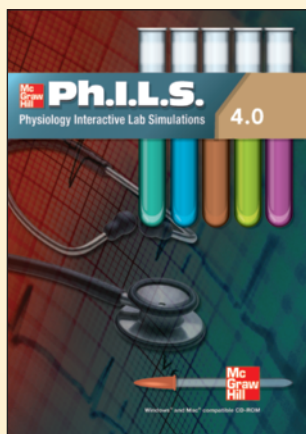
### The Virtual Lab Experience

Based on the same world-class, super-adaptive technology as LearnSmart, McGraw-Hill LabSmart is a must-see, outcomes-based lab simulation. It assesses a student's knowledge and adaptively corrects deficiencies, allowing the student to learn faster and retain more knowledge with greater success.

First, a student's knowledge is adaptively leveled on core learning outcomes: Questioning reveals knowledge deficiencies that are corrected by the delivery of content that is conditional on a student's response. Then, a simulated lab experience requires the student to think and act like a scientist: Recording, interpreting, and analyzing data using simulated equipment found in labs and clinics. The student is allowed to make mistakes—a powerful part of the learning experience! A virtual coach provides subtle hints when needed, asks questions about the student's choices, and allows the student to reflect upon and correct those mistakes. Whether your need is to overcome the logistical challenges of a traditional lab, provide better lab prep, improve student performance, or make your online experience one that rivals the real world, LabSmart accomplishes it all. To learn more, visit [www.mhlabsmart.com](http://www.mhlabsmart.com)

## Physiology Interactive Lab Simulations (Ph.I.L.S.)

NEW! Ph.I.L.S. 4.0 has been updated! Users have requested and we are providing *five new exercises* (Respiratory Quotient, Weight & Contraction, Insulin and Glucose Tolerance, Blood Typing, and Anti-Diuretic Hormone). Ph.I.L.S. 4.0 is the perfect way to reinforce key physiology concepts with powerful lab experiments. Created by Dr. Phil Stephens at Villanova University, this program offers *42 laboratory simulations* that may be used to supplement or substitute for wet labs. All 42 labs are self-contained experiments—no lengthy instruction manual required. Users can adjust variables, view outcomes, make predictions, draw conclusions, and print lab reports. This easy-to-use software offers the flexibility to change the parameters of the lab experiment. There is no limit!



Craft your teaching resources to match the way you teach! With McGraw-Hill Create, [www.mcgrawhillcreate.com](http://www.mcgrawhillcreate.com), you can easily rearrange chapters, combine material from other content sources, and quickly upload content you have written like your course syllabus or teaching notes. Find the content you need in Create by searching through thousands of leading McGraw-Hill textbooks. Arrange your book to fit your teaching style. Create even allows you to personalize your books appearance by selecting the cover and adding your name, school, and course information. Contact your McGraw-Hill sales representative to receive a complimentary copy. Go to [www.mcgrawhillcreate.com](http://www.mcgrawhillcreate.com) today and register. Experience how McGraw-Hill Create empowers you to teach *your* students *your way*.

## Text Website: [www.mheonline.com/longenbaker8](http://www.mheonline.com/longenbaker8)

The website that accompanies this text offers an extensive array of learning and teaching tools.

- Interactive Activities—Fun and exciting learning experiences await the student at the text website. Chapters offer a series of interactive activities like art labeling, animations, vocabulary flashcards, and more!
- Practice Quizzes contain hundreds of test questions that gauge student mastery of chapter content. Each chapter quiz is specifically constructed to test student comprehension of key concepts. Immediate feedback to student responses explains why an answer is correct or incorrect.
- Presentation Center is an online digital library containing assets such as photos, artwork, animations, and Power-Point slides that can be used to create customized lectures, visually enhanced tests and quizzes, compelling course websites, or attractive printed support materials.

## Test Bank

A computerized test bank that uses testing software to quickly create customized exams is available for this text. The user-friendly program allows teachers to search for questions by topic or format, edit existing questions or add new ones, and scramble questions for multiple versions of the same test. Word files of the test bank questions are provided for those teachers who prefer to work outside the test-generator software.

## The Best of Both Worlds

McGraw-Hill and Blackboard® McGraw-Hill Higher Education and Blackboard have teamed up. What does this partnership mean for you? Blackboard users will find the single sign-on and deep integration of Connect Plus within their Blackboard course an invaluable benefit. Even if your school is not using Blackboard, we have a solution for you. Learn more at [www.domorenow.com](http://www.domorenow.com).



**An Interactive Cadaver Dissection Experience**

This unique multimedia tool is designed to help you master human anatomy and physiology with:

- › Content customized to your course
- › Stunning cadaver specimens
- › Vivid animations
- › Lab practical quizzing



**my Course Content**

- › Maximize efficiency by studying exactly what's required.
- › Your instructor selects the content that's relevant to your course.



**Dissection**

- › Peel layers of the body to reveal structures beneath the surface.



**Animation**

- › Over 150 animations make anatomy and physiology easier to visualize and understand.



**Histology**

- › Study interactive slides that simulate what you see in lab.



**Imaging**

- › Correlate dissected anatomy with X-ray, MRI, and CT scans.



**Quiz**

- › Gauge proficiency with customized quizzes and lab practicals that cover only what you need for your course.

WWW.APREVEALED.COM



**Full Textbook Integration!**

Icons throughout the book indicate specific McGraw-Hill Anatomy & Physiology | REVEALED<sup>®</sup> 3.0 content that corresponds to the text and figures.

**Nasal Bones**

Two small rectangular nasal bones form the bridge of the nose (see fig. 7.3) and support cartilages that shape the lower portion of the nose. They are only slightly larger than the lacrimal bones. If you palpate the bridge, you can easily feel where the nasal bones end and the cartilages begin. The nasal bones are often fractured by blows to the nose.

**Inferior Nasal Conchae**

There are three conchae in the nasal cavity. The superior and middle conchae, as discussed earlier, are parts of the ethmoid bone. The inferior nasal concha—the largest of the three—is a separate bone (see fig. 7.13).

**Vomer**

The vomer forms the inferior portion of the nasal septum (see figs. 7.3 and 7.4b). Its name literally means "plowshare," which refers to its resemblance to the blade of a plow. The superior half of the nasal septum is formed by the perpendicular plate of the ethmoid bone, as mentioned earlier. The vomer and perpendicular plate support a wall of septal cartilage that forms most of the anterior part of the septum.

ASSIGNED **AP|R** Module 11: Dissection: Nasal cavity: Coronal

**launch**

(Your score will be reported to your instructor.)

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REVEALED 3.0 my MODULE 11: Respiratory

my COURSE CONTENT ALL CONTENT

TOPIC: Nasal cavity

VIEW: Coronal

- › Frontonasal duct
- › Hard palate
- › Inferior nasal concha
- › Inferior nasal meatus
- › Maxillary sinus
- › Middle nasal concha
- › Middle nasal meatus
- › Nasal cavity

STRUCTURE INFORMATION PROMINENCE

**Maxillary sinus**

Location:

- › Maxilla (upper jaw)
- › Lateral to nasal cavity and inferior to orbit

Description:

- › Paired, mucosa membrane-lined cavity
- › Largest paranasal air sinus

LAYER INFO GROUP

LAYER 1 LAYER 2 LAYER 3 LAYER 4 LAYER 5

100% 0%

LEGEND MY STRUCTURES: RESPIRATORY

Students can navigate directly from the ConnectPlus eBook to related APR content.