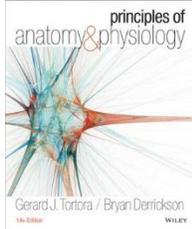




Anatomy & Physiology



An anatomy and physiology course can be the gateway to a gratifying career in a host of health-related professions. It can also be an incredible challenge. Anatomy and Physiology at LION offers a balanced presentation of content under the umbrella of our primary and unifying theme of homeostasis, supported by relevant discussions of disruptions to homeostasis. Through years of collaboration with students and instructors alike, this course brings together deep experience and modern innovation to provide solutions for students' greatest challenges.

This course teaches the student how to understand how the human body is structured from the cellular to the tissue level, how tissues form organs and how the organs comprise various systems of the body. The student will learn the body systems – what each system does, the organs it contains, and how they function and work together.

Contents

Course Overview.....	2
Course Goals.....	2
Syllabus	3
Course Format	3
Learning Resources.....	3
Assignments.....	3
Grading.....	3
Completion Timeframe.....	3
Instruction Method	3
Learning Objectives.....	4
About the Textbook.....	5
Help/Support.....	6
Technical Support.....	6
Technology Requirements.....	6

Course Overview

Course Goals

We have designed the organization and flow of content within this course to provide students with an accurate, clearly written, and expertly illustrated presentation of the structure and function of the human body. We are also cognizant of the fact that the teaching and learning environment has changed significantly to rely more heavily on the ability to access the rich content in a printed text in a variety of digital ways, anytime and anywhere. We are pleased that this 14th edition meets these changing standards and offers dynamic and engaging choices to make this course more rewarding and fruitful. Students can start here, and armed with the knowledge they gain using these materials, be ready to go anywhere with their careers.

Syllabus

Course Format	This is a self-paced online course. You can study the course content, take the course quizzes, complete the assignments, and interact with the other participants in the course via discussion forum(s) on your own schedule.
Learning Resources	<ul style="list-style-type: none"> You will be contacted within one business day of enrolment to confirm your shipping address for the textbook for this program, which will arrive within 10 business days of your confirmation. LearnItOnlineNow.com [LION] provides its supplemental anatomy & physiology learning materials via online lessons, PDFs, and other interactive and passive content. You will be connected to the learning platform immediately upon confirmation of your course purchase.
Assignments	<ul style="list-style-type: none"> Practice quizzes assigned per topic Midterm exam to review materials halfway through course Final Exam assigned to complete the course
Grading	<p>Successful completion of this course is contingent upon the following factors:</p> <ul style="list-style-type: none"> Study all content sections Complete all assignments Pass all assignments & quizzes with a grade of 60% <p>A course certificate is issued on successful completion.</p>
Completion Timeframe	You have unlimited access to LearnItOnlineNow.com to complete your course materials. Take all the time you need to review the materials, practice the objectives, and complete the assignments. Your access will never expire!
Instruction Method	<ul style="list-style-type: none"> Self-paced, independent study. Instructor-created curriculum guides you through the material. No facilitator contact is provided for this course.

Learning Objectives

By the end of this course, you will be able to:

- Discuss the organization of the human body and the properties that it shares with all living things.
- Understand how the body regulates its own internal environment; this unceasing process, called homeostasis, is a major theme throughout your studies.
- Master the basic vocabulary that will help you speak about the body in a way that is understood by scientists and health-care professionals.
- Understand and discuss the various levels of organization in the body, including chemical, cellular, and tissue.
- Define, locate, and understand the body systems:
 - Integumentary System
 - Skeletal System: Bone Tissue
 - Joints
 - Digestive System
 - Hepatobiliary & Pancreatic System
 - Cardiovascular System
 - Respiratory System
 - Urinary System
 - Reproductive System
 - Special Senses
 - Lymphatic System & Immunity
 - Endocrine System
 - Neoplasms
 - Blood
 - Nervous System
 - Fluid, Electrolyte, And Acid-Base Homeostasis
 - Pregnancy and Embryonic Development

About the Textbook

The 14th edition of the phenomenally successful *Principles of Anatomy and Physiology* continues to set the standard for the discipline. The authors have maintained a superb balance between structure and function and continue to emphasize the correlations between normal physiology and pathophysiology, normal anatomy and pathology, and homeostasis and homeostatic imbalances. No other text and package offers a teaching and learning environment as rich and complete.

Author Information

Gerard J. Tortora is Professor of Biology and former Coordinator at Bergen Community College in Paramus, NJ, where he teaches human anatomy and physiology as well as microbiology. He received his bachelor's degree in biology from Fairleigh Dickinson University and his master's degree in science education from Montclair State College. He is a member of many professional organizations, such as the Human Anatomy and Physiology Society (HAPS), the American Society of Microbiology (ASM), American Association for the Advancement of Science (AAAS), National Education Association (NEA), and the Metropolitan Association of College and University Biologists (MACUB).

Bryan Derrickson is Professor of Biology at Valencia Community College in Orlando, Florida, where he teaches human anatomy and physiology as well as general biology and human sexuality. He received his bachelor's degree in biology from Morehouse College and his Ph.D. in Cell Biology from Duke University. Bryan's study at Duke was in the Physiology Division within the Department of Cell Biology, so while his degree is in Cell Biology his training focused on physiology. At Valencia, he frequently serves on faculty hiring committees. He has served as a member of the Faculty Senate, which is the governing body of the college, and as a member of the Faculty Academy Committee (now called the Teaching and Learning Academy), which sets the standards for the acquisition of tenure by faculty members. Nationally, he is a member of the Human Anatomy and Physiology Society (HAPS) and the National Association of Biology Teachers (NABT).

This course covers the following topics:

Unit I: Organization of the Human Body	<ul style="list-style-type: none"> • An Introduction to the Human Body • The Chemical Level of Organization • The Cellular Level of Organization • The Tissue Level of Organization • The Integumentary System
Unit II: Principles of Support and Movement	<ul style="list-style-type: none"> • The Skeletal System: Bone Tissue • The Skeletal System: The Axial Skeleton • The Skeletal System: The Appendicular Skeleton • Joints • Muscle Tissue

	<ul style="list-style-type: none"> • The Muscular System
Unit III: Control Systems of the Human Body	<ul style="list-style-type: none"> • Nervous Tissue • The Spinal Cord and Spinal Nerves • The Brain and Cranial Nerves • The Autonomic Nervous System • Sensory, Motor and Integrative Systems • The Special Senses • The Endocrine System
Unit IV: Maintenance of the Human Body	<ul style="list-style-type: none"> • The Cardiovascular System: The Blood • The Cardiovascular System: The Heart • The Cardiovascular System: Blood Vessels and Hemodynamics • The Lymphatic System, Nonspecific Resistance to Disease, and Immunity • The Respiratory System • The Digestive System • Metabolism • The Urinary System • Fluid, Electrolyte, and Acid-Base Homeostasis
Unit V: Continuity	<ul style="list-style-type: none"> • The Reproductive Systems • Development and Inheritance

Help/Support

Technical Support

We want to make sure that you have the support you need while proceeding through the course. For any questions or concerns, including technical or administrative issues, please email techsupport@learnitonlinenow.com.

Technology Requirements

To navigate successfully you will need the following on your computer:

- A Web browser with JavaScript and cookies enabled
- A stable Internet connection
- Adobe Reader

Ready to go?

[Access Anatomy & Physiology Now!](#)