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Introduction to Sports Medicine and Athletic Training Texas A&M University Press

A version of the OpenStax text

[Biology for AP @ Courses](#) Springer

In response to concerns about teacher retention, especially among teachers in their first to fourth year in the classroom, we offer future teachers a series of brief guides full of practical advice that they can refer to in both their student teaching and in their first years on the job. A Guide to Reflective Practice for New and Experienced Teachers is designed to promote reflective practice in both your teaching and in your students' learning. It is based on current theory and research on how people learn and how to teach in ways that maximize learning. The diverse strategies included are geared towards the needs of new as well as experienced teachers.

[Principles of Biochemistry](#) Springer Science & Business Media

Biological Macromolecules: Bioactivity and Biomedical Applications presents a comprehensive study of biomacromolecules and their potential use in various biomedical applications. Consisting of four sections, the book begins with an overview of the key sources, properties and functions of biomacromolecules, covering the foundational knowledge required for study on the topic. It then progresses to a discussion of the various bioactive components of biomacromolecules. Individual chapters explore a range of potential bioactivities, considering the use of biomacromolecules as nutraceuticals, antioxidants, antimicrobials, anticancer agents, and antidiabetics, among others. The third section of the book focuses on specific applications of biomacromolecules, ranging from drug delivery and wound management to tissue engineering and enzyme immobilization. This focus on the various practical uses of biological macromolecules provide an interdisciplinary assessment of their function in practice. The final section explores the key challenges and future perspectives on biological macromolecules in biomedicine. Covers a variety of different biomacromolecules, including carbohydrates, lipids, proteins, and nucleic acids in plants, fungi, animals, and microbiological resources Discusses a range of applicable areas where biomacromolecules play a significant role, such as drug delivery, wound management, and regenerative medicine Includes a detailed overview of biomacromolecule bioactivity and properties Features chapters on research challenges, evolving applications, and future perspectives

[Plants in Action](#) Lindhardt og Ringhof

Virus Structure covers the full spectrum of modern structural virology. Its goal is to describe the means for defining moderate to high resolution structures and the basic principles that have emerged from these studies. Among the topics covered are Hybrid Vigor, Structural Folds of Viral Proteins, Virus Particle Dynamics, Viral Genome Organization, Enveloped Viruses and Large Viruses. Covers viral assembly using heterologous expression systems and cell extracts Discusses molecular mechanisms in bacteriophage T7 procapsid assembly, maturation and DNA containment Includes information on structural studies on antibody/virus complexes

[The Blue Zones](#) Longman

The 4th edition of this textbook, now in full color, presents both general pathology and special pathology in one comprehensive resource. Coverage includes a brief review of basic principles related to anatomy, structure and function, followed by congenital and functional abnormalities and discussions of viral, bacterial, and parasitic infections and neoplasia. Logically organized chapters discuss normal functions of the body system, followed by pathologic conditions found in domestic and companion animals. While focusing primarily on diseases in North America, the text also includes pathologic conditions found in other parts of the world, as well as those being brought into this country, such as West Nile virus, through the importation of cattle, sheep, and other animals. Contributors are recognized in their area of expertise and are well known in research and education. Now in full color throughout with vivid new illustrations that clarify difficult concepts. Includes six new chapters covering general pathology that discuss topics such as cellular and tissue responses to injury, vascular disorders, inflammation, and tumor biology. All chapters emphasize mechanisms of disease (organ, tissue, cell, and molecular injury). Features sequential presentations of disease processes (portal of entry * target cells * cellular injury * visual appearance of injury * resolution of injury * clinical outcomes). Emphasizes portals of entry for microbes and injurious agents. Focuses on defense mechanisms against microbes and injurious agents.

[Plant Life](#) Springer Science & Business Media

The Plants in action unit is an ideal way to link science with literacy in the classroom. Students' beliefs about flowering plants will be challenged as they work through hands-on activities.

[Virtual Architecture](#) Arcturus Publishing

Bestselling author Dan Buettner reveals how to transform your health using smart nutrition, lifestyle, and fitness habits gleaned from longevity research on the diets, eating habits, and lifestyle practices of the communities he's identified as "Blue Zones"—those places with the world's longest-lived, and thus healthiest, people, including locations such as Okinawa, Japan; Sardinia, Italy; Costa Rica's Nicoya Peninsula; Ikaria, Greece; and Loma Linda, California. With the audacious belief that the lifestyles of the world's Blue Zones could be adapted and replicated in towns across North America, Buettner launched the largest preventive health care project in the United States, The Blue Zones City Makeovers, which has impacted the health of millions of Americans since 2009. In The Blue Zones Solution, readers can be inspired by the specific stories of the people, foods, and routines of our healthy elders; understand the role community, family, and naturally healthy habits can play in improving our diet and health; and learn the exact foods—including the 50 superfoods of longevity and dozens of recipes adapted for Western tastes and markets—that offer delicious ways to eat your way to optimum health. Throughout the book are lifestyle recommendations, checklists, and stories to help you create your own personal Blue Zones solution. Readers will learn and apply the 80/20 rule, the plant slant diet, social aspects of eating that lead to weight loss and great health naturally, cultivating your "tribe" of friends and family, and your greater purpose as part of your daily routine. Filled with moving personal stories, delicious recipes, checklists, and useful tips that will transform any home into a miniature blue zone, The Blue Zones Solution is the ultimate blueprint for a healthy, happy life.

A Guide to Reflective Practice for New and Experienced Teachers National Geographic Books

A blueprint for exploring the dynamics, complexity, utility, and importance of the organisms that compose our green world at an introductory level. Students use a fill-in notes structure to examine essential topics in botany including plant anatomy, physiology, diversity, life cycle biology, ethnobotany, and ecology.

Out of the Dust (Scholastic Gold) International Society for Technology in educ

The mid-level text of Flemming's successful series, Reading for Results hones students' comprehension skills and introduces them to the basics of critical reading. Featuring the author's trademark high-interest reading selections—including multi-paragraph readings to prepare students for college-level texts—this developmental text motivates students to complete numerous exercises and tests, while simultaneously fostering the idea that reading is a stimulating and exciting activity in its own right.

The Carbon Cycle Mosby

"Follows the flow of sun energy in plants from photosynthesis through respiration."--Source other than the Library of Congress.

Cryopreservation and Freeze-Drying Protocols Kendall/Hunt Publishing Company

Engineering education in K-12 classrooms is a small but growing phenomenon that may have implications for engineering and also for the other STEM subjects—science, technology, and mathematics. Specifically, engineering education may improve student learning and achievement in science and mathematics, increase awareness of engineering and the work of engineers, boost youth interest in pursuing engineering as a career, and increase the technological literacy of all students. The teaching of STEM subjects in U.S. schools must be improved in order to retain U.S. competitiveness in the global economy and to develop a workforce with the knowledge and skills to address technical and technological issues. Engineering in K-12 Education reviews the scope and impact of engineering education today and makes several recommendations to address curriculum, policy, and funding issues. The book also analyzes a number of K-12 engineering curricula in depth and discusses what is known from the cognitive sciences about how children learn engineering-related concepts and skills. Engineering in K-12 Education will serve as a reference for science, technology, engineering, and math educators, policy makers, employers, and others concerned about the development of the country's technical workforce. The book will also prove useful to educational researchers, cognitive scientists, advocates for greater public understanding of engineering, and those working to boost technological and scientific literacy.

[The State of Food Insecurity in the World 2015](#) Elsevier

Promote inquiry-based learning and environmental responsibility at the same time. Composting in the Classroom is your comprehensive guide offering descriptions of a range of composting mechanisms, from tabletop soda bottles to outdoor bins. Activities vary in complexity -- you can use this as a whole unit, or pick and choose individual activities.

[Twelve Years a Slave](#) Springer Science & Business Media

In recent years, the study of the plant cell cycle has become of major interest, not only to scientists working on cell division *sensu stricto*, but also to scientists dealing with plant hormones, development and environmental effects on growth. The book *The Plant Cell Cycle* is a very timely contribution to this exploding field. Outstanding contributors reviewed, not only knowledge on the most important classes of cell cycle regulators, but also summarized the various processes in which cell cycle control plays a pivotal role. The central role of the cell cycle makes this book an absolute must for plant molecular biologists.

The Plant Cell Cycle Prentice Hall

In addition to outlining the fundamental principles associated with the conservation of biological resources, freeze-drying and cryopreservation, this text is a compilation of cryopreservation and freeze-drying methodologies applicable to different biological materials, developed by expert laboratories.

BSCS Biology Wadsworth Publishing Company

Oceans account for 50% of the anthropogenic CO₂ released into the atmosphere. During the past 15 years an international programme, the Joint Global Ocean Flux Study (JGOFS), has been studying the ocean carbon cycle to quantify and model the biological and physical processes whereby CO₂ is pumped from the ocean's surface to the depths of the ocean, where it can remain for hundreds of years. This project is one of the largest multi-disciplinary studies of the oceans ever carried out and this book synthesises the results. It covers all aspects of the topic ranging from air-sea exchange with CO₂, the role of physical mixing, the uptake of CO₂ by marine algae, the fluxes of carbon and nitrogen through the marine food chain to the subsequent export of carbon to the depths of the ocean. Special emphasis is laid on predicting future climatic change.

The Art of Rhetoric Cengage Learning

The 1996 Pulitzer winner in poetry and a major collection, Jorie Graham's *The Dream of the United Field: Selected Poems 1974-1994* spans twenty years of writing and includes generous selections from her first five books: *Hybrids of Plants and of Ghosts*, *The End of Beauty*, *Region of Unlikeness*, and *Materialism*.

The Molecular Basis of Heredity Scholastic Inc.

This year's annual State of Food Insecurity in the World report takes stock of progress made towards achieving the internationally established Millennium Development Goal (MDG1) and World Food Summit hunger targets and reflects on what needs to be done, as we transition to the new post-2015 Sustainable Development Agenda. The report reviews progress made since 1990 for every country and region as well as for the world as a whole. The 2015 report not only estimates the progress already achieved, but also identifies remaining problems, and provides guidance on which policies should be emphasized in the future. Key factors that have determined success to date towards food security and nutrition goals are identified. The list of factors - economic growth, agricultural productivity growth, markets (including international trade) and social protection - is by no means exhaustive. The report also shows protracted crises, due to conflict or natural Disasters, has deleterious effects on progress in hunger reduction."

Dietary Guidelines for Americans 2015-2020 McGraw-Hill Education

'Moral character, so to say, constitutes the most effective means of proof.' In ancient Greece, rhetoric was at the centre of public life. Many writers attempted to provide manuals to help improve debating skills, but it was not until Aristotle produced *The Art of Rhetoric* in the 4th century bc that the subject had a true masterpiece. As he considered the role of emotion, reason, and morality in speech, Aristotle created essential guidelines for argument and prose style that would influence writers for more than two millennia. Brilliantly explained and carefully reasoned, *The Art of Rhetoric* remains as relevant today as it was in the assemblies of ancient Athens.

[Biological Macromolecules](#) Fao

Filmatised in 2013 and the official recipient of three Oscars, Solomon Northup's powerful slave narrative 'Twelve Years a Slave' depicts Northup's life as he is sold into slavery after having spent 32 years of his life living as a free man in New York. Working as a travelling musician, Northup goes to Washington D.C, where he is kidnapped, sent to New Orleans, and sold to a planter to suffer the relentless and brutal life of a slave. After a dozen years, Northup escapes to return to his family and pulls no punches, as he describes his fate and that of so many other black people at the time. It is a harrowing but vitally important book, even today. For further reading on this subject, try 'Uncle Tom's Cabin' by Harriet Beecher Stowe. Solomon Northup (c.1807-c.1875) was an American abolitionist and writer, best remembered for his powerful race memoir 'Twelve Years a Slave'. At the age of 32, when he was a married farmer, father-of-three, violinist and free-born man, he was kidnapped in Washington D.C and shipped to New Orleans, sold to a planter and enslaved for a dozen years. When he gained his freedom, he wrote his famous memoir and spent some years lecturing across the US, on behalf of the abolitionist movement. 'Twelve Years a Slave' was published a year after 'Uncle Tom's Cabin' by Harriet Beecher Stowe and built on the anti-slavery momentum it had developed. Northup's final years are something of a mystery, though it is thought that he struggled to cope with family life after being freed.

[Speakout Elementary](#) Infobase Publishing

Biology for AP® courses covers the scope and sequence requirements of a typical two-semester

Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.