Integrated Principles Of Zoology 15th Edition

From the very beginning, life on Earth has been defined by war. Today, those first wars continue to be fought around and literally inside us, influencing our individual behavior and that of civilization as a whole. War between populations - whether between different species or between rival groups of humans - is seen as an inevitable part of the evolutionary process. The popular concept of "the survival of the fittest" explains and often excuses these actions. In Population Wars, Greg Graffin points to where the mainstream view of evolutionary theory has led us astray. That misunderstanding has allowed us to justify wars on every level, whether against bacterial colonies or human societies, even when other, less violent solutions may be available. Through tales of mass extinctions, developing immune systems, human warfare, the American industrial heartland, and our degrading modern environment, Graffin demonstrates how an over-simplified idea of war, with its victorious winners and vanquished losers, prevents us from responding to the real problems we face. Along the way, Graffin reveals a paradox: when we challenge conventional definitions of war, we are left with a new problem, how to define ourselves. Populations Wars is a paradigm-shifting book about why humans behave the way they do and the ancient history that explains that behavior. In reading it, you'll see why we need to rethink the reasons for war, not only the human military kind but also Darwin's "war of nature," and find hope for a less violent future for mankind.
This handbook provides advice on best practice for the recovery, publication and archiving of animal bones and teeth from Holocene archaeological sites (ie from approximately the last 10,000 years). It has been written for local authority archaeology advisors, consultants, museum curators, project managers, excavators and zooarchaeologists, with the aim of ensuring that approaches are suitable and cost-effective.
The Sixth Edition of Botany: An Introduction to Plant Biology provides a modern and comprehensive overview of the fundamentals of botany while retaining the important focus of natural selection, analysis of botanical phenomena, and diversity.
Viruses: From Understanding to Investigation provides students with a map for lifetime learning by presenting the definition and unique characteristics of viruses, including major topics, such as the virus lifecycle, structure, taxonomy, evolution, history, host-virus interactions and methods to study viruses. In addition, the book assesses the connections between, and among, the aforementioned topics, providing an integrated approach and in-depth understanding of how viruses work. Employs a comparative strategy to emphasize unique structural and molecular characteristics that inform transmission, disease processes, vaccine strategies and host responses Presents a review of host cell and molecular biology and the immune system Features topical areas of research, including genomics in virus discovery, the virome, and beneficial interactions between viruses and their hosts Includes text boxes throughout with experimental approaches used by virologists Covers learning objectives for each chapter, methods and advances, question sets, quizzes and a glossary
This book provides information on the historical and theoretical perspectives of biodiversity and ecology in tropical forests, plant and animal behaviour towards seed dispersal and plant-animal interactions within forest communities, consequences of seed dispersal, and conservation, biodiversity and management.
This book is dedicated to the reuse of waste and residues from the agricultural sector. Plant residues, as well as animal manure and residues from animal breeding, contain useful elements that can be processed for production of fertilizers, compost for soil recultivation, and biofuels. The emerging energy and resources crisis calls for development of sustainable reuse of waste and residues. This book contains eight chapters divided into four sections. The first section contains the introductory chapter from the editor. The second section is related to the preparation of fertilizers and compost for soil amelioration from agricultural residues and waste water. The third section considers the use of agricultural waste for solid biofuels and biogas. The fourth section discusses sustainability and risk assessment related to the use of agricultural waste and residues.
First published in 1987, this book discusses the life and natural history of moral systems as seen through the eyes of a biologist. The volume offers a comprehensive introspective of the biology of a moral system by examining the evolutionary approach from perspectives of sociobiology and ideology. Morality in relation to conflicts and confluences of interest among humankind are further evaluated, with particular emphasis on the human psyche and the ontogeny of moral behaviour. Philosophical meets biological with insightful commentary on the morality of law and democracy. The book concludes with an epilogue, bibliography and name and subject index. It is clear, concise and contemporary and would be of use to those studying Biology, Philsophy and many other social sciences.
Campbell Biology, Books a la Carte Edition
Concepts of Biology
Information Technology for Management
Accounting Principles Part 1, 5th Canadian Edition
Current Issues in Sports and Exercise Medicine
Inquiry Into Life 16e
Animal Bones and Archaeology
Essential Cell Biology
Introductory Plant Biology
Anatomy and Physiology
Interactive management of wild and captive animals
This text provides coverage of the basic biological principles of zoology.
The biological sciences cover a broad array of literature types, from younger fields like molecular biology with its reliance on recent journal articles, genomic databases, and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries. Using the Biological Literature: A Practical Guide, Fourth Edition is an annotated guide to selected resources in the biological sciences, presenting a wide-ranging list of important sources. This completely revised edition contains numerous new resources and descriptions of all entries including textbooks. The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature. It covers both print and electronic resources including monographs, journals, databases, indexes and abstracting tools, websites, and associations—providing users with listings of authoritative informational resources of both classical and recently published works. With chapters devoted to each of the main fields in the basic biological sciences, this book offers a guide to the best and most up-to-date resources in biology. It is appropriate for anyone interested in searching the biological literature, from undergraduate students to faculty, researchers, and librarians. The guide includes a supplementary website dedicated to keeping URLs of electronic and web-based resources up to date, a popular feature continued from the third edition.
This new volume provides a concise overview of the most basic and exciting chapters of comparative medicine with regards to physiology and function in healthy individuals. The book includes core concepts in anatomy and physiology in human and animal models, which are key to understanding comparative medicine and to making contributions to research in this area. While writing this book, the authors were in constant interdisciplinary dialogue. They aim to contribute to improvements in quality of life for human and animal patients.
NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value--this format costs significantly less than a new textbook. The Eleventh Edition of the best-selling text Campbell BIOLOGY sets you on the path to success in biology through its clear and engaging narrative, superior skills instruction, and innovative use of art, photos, and fully integrated media resources to enhance teaching and learning. To engage you in developing a deeper understanding of biology, the Eleventh Edition challenges you to apply knowledge and skills to a variety of NEW! hands-on activities and exercises in the text and online. NEW! Problem-Solving Exercises challenge you to apply scientific skills and interpret data in the context of solving a real-world problem. NEW! Visualizing Figures and Visual Skills Questions provide practice interpreting and creating visual representations in biology. NEW! Content updates throughout the text reflect rapidly evolving research in the fields of genomics, gene editing technology (CRISPR), microbiomes, the impacts of climate change across the biological hierarchy, and more. Significant revisions have been made to Unit 8, Ecology, including a deeper integration of evolutionary principles. NEW! A virtual layer to the print text incorporates media references into the printed text to direct you towards content in the Study Area and eText that will help you prepare for class and succeed in exams--Videos, Animations, Get Ready for This Chapter, Figure Walkthroughs, Vocabulary Self-Quizzes, Practice Tests, MP3 Tutors, and Interviews. (Coming summer 2017). NEW! QR codes and URLs within the Chapter Review provide easy access to Vocabulary Self-Quizzes and Practice Tests for each chapter that can be used on smartphones, tablets, and computers.
The purpose of this book is to provide nurses and other health workers with knowledge of the structure and functions of the human body and the changes that take place when diseases disrupt normal processes. Its purpose is to describe, not prescribe - medical treatment is not included.
Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology, including the biomedical sciences. The Fourth Edition has been thoroughly revised, and covers the latest developments in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank. Essential Cell Biology, Fourth Edition is additionally supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for lectures and classroom discussions. The user-friendly system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address students' needs precisely and efficiently. For more information and sample material, visit http://garlandscience.rocketmix.com/.
Past progress and future challenges R.J. Wheater Royal Zoological Society of Scotland, Edinburgh, UK. In the past two decades much has been achieved in the sphere of breeding endangered species, and we should be pleased that our co operative efforts have already borne so much fruit. However, on balance and despite the best efforts of conservationists, the position of wildlife in the wild places where they are best conserved has become worse, often dramatically worse. Before returning to the United Kingdom in 1972, I was in Uganda for 16 years, most of which time was spent as Chief Warden of Murchison Falls National Park. Our main problem was that an over-population of large mammals was having a devastating impact on the habitat. Devas tation was being wrought on woodland areas by the arrival of large numbers of elephants into the sanctuary of the Park, following changes in land use in the areas outside the Park. These changes were in response to the requirements of an ever-expanding human population.
Ecology, Evolution, and Conservation
ISE Environmental Science: A Global Concern
The Foundations of Modern Biology
Placing Animals
Inquiry Into Life
Creative Conservation
Completing the Transition to Land
Laboratory Studies in Zoology
Seed Dispersal and Frugivory
An Introduction to the Geography of Human-animal Relations
Animal Diversity
This introductory text assumes little prior scientific knowledge on the part of the student. It includes sufficient information for some shorter introductory botany courses open to both majors and nonmajors, and is arranged so that certain sections can be omitted without disrupting the overall continuity of the course. Stern emphasizes current interests while presenting basic botanical principles.
This unique resource presents current issues in sports and exercise medicine which outlines new areas of knowledge and provides updates on current knowledge in the broad field of sports and exercise medicine. Written by experts in their own sub-disciplines, Current Issues in Sports and Exercise Medicine discusses the physiology behind sports injuries and presents new and exciting approaches to manage such injuries. In addition, the book explores the relationship between exercise, health and performance by providing new information in areas such as exercise and immunity, the use of iron supplementation for performance, how exercise affects reactive oxygen species, and the proposed benefits of real and simulated altitude training. This book is well referenced and illustrated and will be a valuable resource for sports medicine specialists, physiologists, coaches, physical conditioners, physiotherapists and graduate and medical school students.
The book provides information on the evidence for the truth of Islam, some benefits of Islam, and general information on Islam.
Published to coincide with an exhibition at the National Gallery of Art, Washington DC, of sixty-eight works of art, primarily from Florentine collections, The Flowering of Florence explores the close ties between art and the natural sciences in Tuscany as seen in the botanical renderings created in Florence for the Medici grand dukes from the late 1500s through the early 1700s. The catalog comprises an essay and checklist with reproductions of the exquisite works in the show. Examples include Jacopo Ligozzi's plant drawings in tempera on paper from the Uffizi Gallery, Giovanna Garzoni's fruit and flower paintings on vellum, and Bartolomeo Bimbi's later and much larger still-life paintings.
Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.
"Animal Diversity is tailored for the restrictive requirements of a one-semester or one-quarter course in zoology, and is appropriate for both nonscience and science majors of varying backgrounds. This Ninth edition of Animal Diversity presents a survey of the animal kingdom with emphasis on diversity, evolutionary relationships, functional adaptations, and environmental interactions"--
Placing Animals is the first book to survey the ways in which animals have been studied in geography. It includes both a historical overview of the development of animal geography and an assessment of the field today. Through the theme of the role of place in shaping where and why human-animal interactions occur, the chapters in turn explore the history of animal geography and our distinctive relationships in the home, on farms, in the context of labor, in the wider culture, and in the wild.
Laboratory Studies for Animal Diversity
Practical Zoology Invertebrate
Agricultural Waste and Residues
Botanical Art for the Medici
Laboratory Studies in Integrated Principles of Zoology
Science as a Way of Knowing
Integrated View of Population Genetics
A Practical Guide, Fourth Edition
A Brief Illustrated Guide to Understanding Islam
The Biology of Moral Systems
From Understanding to Investigation
Laboratory Studies in Integrated Principles of Zoology uses a comprehensive, phylogenetic approach in emphasizing basic biological principles, animal form and function, and evolutionary concepts. This introductory lab manual is ideal for a one- or two-semester course. The new edition expertly combines up-to-date coverage with the clear writing style and dissection guides that have distinguished this manual from edition to edition.
Emphasizing the central role of evolution in generating diversity, this book describes animal life and the fascinating adaptations that enable animals to inhabit so many ecological niches.
Inquiry into Life was originally developed to reach out to science-shy students. The text now represents one of the cornerstones of introductory biology education and was founded on the belief that teaching science from a human perspective, coupled with human applications, makes the material more relevant to the student. As scientists and educators, the authors are aware that scientific discovery is a dynamic process and the advances in digital publishing are allowing authors to update content on a regular basis.
Emphasizing the central role of evolution in generating diversity, this best-selling text describes animal life and the fascinating adaptations that enable animals to inhabit so many ecological niches. Featuring high quality illustrations and photographs set within an engaging narrative, Integrated Principles of Zoology is considered the standard by which other texts are measured. With its comprehensive coverage of biological and zoological principles, mechanisms of evolution, diversity, physiology, and ecology, organized into five parts for easy access, this text is suitable for one- or two-semester introductory courses.
Population genetics is the basis of evolutionary studies, and has been widely used in several researches. This recent field of science has important applications for the management of populations (natural and domesticated), as well as for evolutionary studies of the various factors that affect gene frequencies over time and spatial distribution.In this work, presented in three sections (Population and Quantitative Genetics, Genetic Diversity in Crop Management, Population Genetics for Conservation Studies), the reader will find cutting-edge information in carefully selected and revised works.This book is intended for all researchers, academics, and students who are interested in the intriguing area of population genetics.
Information technology is ever-changing, and that means that those who are working, or planning to work, in the field of IT management must always be learning. In the new edition of the acclaimed Information Technology for Management, the latest developments in the real world of IT management are covered in detail thanks to the input of IT managers and practitioners from top companies and organizations from around the world. Focusing on both the underlying technological developments in the field and the important business drivers performance, growth and sustainability—the text will help students explore and understand the vital importance of IT's role vis-a-vis the three components of business performance improvement: people, processes, and technology. The book also features a blended learning approach that employs content that is presented visually, textually, and interactively to enable students with different learning styles to easily understand and retain information. Coverage of next technologies is up to date, including cutting-edged technologies, and case studies help to reinforce material in a way that few texts can.
This book makes Moore's wisdom available to students in a lively, richly illustrated account of the history and workings of life. Employing rhetoric strategies including case histories, hypotheses and deductions, and chronological narrative, it provides both a cultural history of biology and an introduction to the procedures and values of science.
Loose Leaf for Integrated Principles of Zoology
The Flowering of Florence
Botany
Comparative Medicine
Fundamentals and Advancements
Viruses
Tribology
World Ocean Assessment
A New Perspective on Competition and Coexistence
Using the Biological Literature
On-Demand Strategies for Performance, Growth and Sustainability
Overview Emphasizing the central role of evolution in generating diversity, this best-selling text describes animal life and the fascinating adaptations that enable animals to inhabit so many ecological niches. Featuring high quality illustrations and photographs set within an engaging narrative,Integrated Principles of Zoology is considered the standard by which other texts are measured. With its comprehensive coverage of biological and zoological principles, mechanisms of evolution, diversity, physiology, and ecology, organized into five parts for easy access, this text is suitable for one- or two-semester introductory courses.
As the subject of tribology comprises lubrication, friction and wear of contact components highly relevant to practical applications, it challenges scientists from chemistry, physics and materials engineering around the world on todays sophisticated experimental and theoretical foundation to complex interdisciplinary research. Recent results and developments are preferably presented and evaluated in the context of established knowledge. Consisting of eleven chapters divided into the four parts of Lubrication and Properties of Lubricants, Boundary Lubrication Applications, Testing and Modeling, and Sustainability of Tribosystems, this textbook therefore merges basic concepts with new findings and approaches. Tribology Fundamentals and Advancements, supported by competent authors, aims to convey current research trends in the light of the state of the art to students, scientists and practitioners and help them solve their problems.
This best-selling, comprehensive text is suitable for one- or two-semester courses. Integrated Principles of Zoology is considered the standard by which other texts are measured. It features high quality illustrations and photos, engaging narrative, traditional organization, and comprehensive coverage..
Amniote Origins integrates modern systematic methods with studies of functional and physiological processes, and illustrates how studies of paleobiology can be illuminated by studies of neonatology. For this reason, comparative anatomists and physiologists, functional morphologists, zoologists, and paleontologists will all find this unique volume very useful. Inspired by the prospect of integrating fields that have long been isolated from one another, Amniote Origins provides a thorough and interdisciplinary synthesis of one of the classic transitions of evolutionary history. Integrates modern systematic methods with studies of functional and physiological processes Illustrates how studies of paleobiology can be illuminated by studies of neonatology Provides a thorough and interdisciplinary synthesis of one of the classic transitions of evolutionary history
Bound for Integrated Principles of Zoology
Population Wars
Recovery to Archive
Ross & Wilson Anatomy and Physiology in Health and Illness
The Conservation Biology of Tortoises
Integrated Principles of Zoology
Amniote Origins