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Production and Operations Management K.C. Arora 2004

Concept and Application of Transdisciplinarity in Intellectual Discourse and Research Hester du Plessis 2014-02-01

In the past four decades, transdisciplinarity has gained conceptual and practical traction for its transformative value in accounting for the complex challenges besetting humankind, including social relations and natural ecosystems. The need to develop frameworks for joint problem-solving involving diverse stakeholders is unquestionable. Besides generating inclusivity, which embraces academia, civil society, and policymakers in the public and private sectors, transdisciplinarity allows for the appreciation of phenomena from a multiplicity of angles and affords societies creative ways of seeking solutions to challenges that may appear intractable. This book puts forward alternatives within this arena and attempts to directly respond to the multilayered challenges of diffuse disciplines, interlinked socioeconomic problems, impacts of globalization, technological advancements, environmental concerns, food security, and more.

The Tree of Life Guillaume Lecointre 2006 Did you know that you are more closely related to a mushroom than to a daisy? That dinosaurs are still among us? That the terms "fish" and "invertebrates" do not indicate scientific groupings? All this is the result of major changes in classification. This book diagrams the tree of life according to the most recent methods of this system.

Boyfriends with Girlfriends Alex Sanchez 2011-04-19 Sergio is bisexual, but his only real relationship was with a girl. Lance has always known he was gay, but he's never had a real boyfriend. When the two of them meet, they have an instant connection—but will it be enough to overcome their differences? Allie's been in a relationship with a guy for the last two years—but when she meets Kimiko, she can't get her out of her mind. Does this mean she's gay? Or bi? Kimiko, falling hard for Allie, is willing to stick around and help Allie figure it out. Boyfriends with Girlfriends is Alex Sanchez at his best, writing with a sensitive hand to portray four very real teens striving to find their places in the world—and with each other.

Brain Training For Runners Matt Fitzgerald 2007-09-04 Based on new research in exercise physiology, author and running expert Matt Fitzgerald introduces a first-of-its-kind training strategy that he's named "Brain Training." Runners of all ages, backgrounds, and skill levels can learn to maximize their performance by

supplying the brain with the right feedback. Based on Fitzgerald's eight-point brain training system, this book will help runners: - Resist running fatigue - Use cross-training as brain training - Master the art of pacing - Learn to run "in the zone" - Outsmart injuries - Fuel the brain for maximum performance Packed with cutting-edge research, real-world examples, and the wisdom of the world's top distance runners, Brain Training for Runners offers easily applied advice and delivers practical results for a better overall running experience.

Preparing for the Biology AP Exam Fred W. Holtzclaw 2009-11-03 Key Benefit: Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual. Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the AP Test Development Committee, the Holtzclaws have designed their resource to help your students prepare for the AP Exam. * Completely revised to match the new 8th edition of Biology by Campbell and Reece. * New Must Know sections in each chapter focus student attention on major concepts. * Study tips, information organization ideas and misconception warnings are interwoven throughout. * New section reviewing the 12 required AP labs. * Sample practice exams. * The secret to success on the AP Biology exam is to understand what you must know—and these experienced AP teachers will guide your students toward top scores! Market Description: Intended for those interested in AP Biology.

Inferring Phylogenies Joseph Felsenstein 2004-01 Phylogenies, or evolutionary trees, are the basic structures necessary to think about and analyze differences between species. Statistical, computational, and algorithmic work in this field has been ongoing for four decades now, and there have been great advances in understanding. Yet no book has summarized this work. Inferring Phylogenies does just that in a single, compact volume. Phylogenies are inferred with various kinds of data. This book concentrates on some of the central ones: discretely coded characters, molecular sequences, gene frequencies, and quantitative traits. Also covered are restriction sites, RAPDs, and microsatellites.

Zoological Philosophy Jean Baptiste Pierre Antoine de Monet de Lamarck 2011-11-03 Lamarck outlined his theory of 'soft inheritance', which influenced Darwin, in this 1809 work, eventually translated into English in 1914.

Post-Transcriptional Gene Regulation Jane Wu 2013-04-24 Reflecting the rapid progress in the field, the book presents the current understanding of molecular mechanisms of post-transcriptional gene regulation thereby focusing on RNA

processing mechanisms in eucaryotic cells. With chapters on mechanisms as RNA splicing, RNA interference, MicroRNAs, RNA editing and others, the book also discusses the critical role of RNA processing for the pathogenesis of a wide range of human diseases. The interdisciplinary importance of the topic makes the title a useful resource for a wide reader group in science, clinics as well as pharmaceutical industry.

In the Sphere of Silence Vijay Eswaran 2005

But Will the Planet Notice? Gernot Wagner 2011-09-27 You are one of seven billion people on Earth. Whatever you or I do personally—eat tofu in a Hummer or hamburgers in a Prius—the planet doesn't notice. In our confrontation with climate change, species preservation, and a planet going off the cliff, it is what several billion people do that makes a difference. The solution? It isn't science, politics, or activism. It's smarter economics. The hope of mankind, and indeed of every living thing on the planet, is now in the hands of the dismal science. Fortunately, we've been there before. Economists helped crack the acid rain problem in the 1990's (admittedly with a strong assist from a phalanx of lawyers and activists). Economists have helped get lead out of our gas, and they can explain why lobsters haven't disappeared off the coast of New England but tuna is on the verge of extinction. More disquietingly, they can take the lessons of the financial crisis and model with greater accuracy than anyone else the likelihood of environmental catastrophe, and they can help save us from global warming, if only we let them.

Evolution Carl T. Bergstrom 2016-02-25 Evolution presents foundational concepts through a contemporary framework of population genetics and phylogenetics that is enriched by current research and stunning art. In every chapter, new critical thinking questions and expanded end-of-chapter problems emphasizing data interpretation reinforce the Second Edition's focus on helping students think like evolutionary biologists.

Global Invader Sylvia Behrens Yamada 2001 Writing to educate those concerned with sea life in the Pacific Northwest, Yamada (zoology, Oregon State U., Corvallis) traces the generally devastating impact of the invasive European green crab with reference to research carried out in New England, California, Oregon, South Africa, Australia, and Tasmania. A full description of the biology and life history of the European green crab is provided, along with photos, glossary, list of references, and descriptive table of Pacific Northwest crabs. Annotation copyrighted by Book News, Inc., Portland, OR.

Borders: A Very Short Introduction Alexander C. Diener 2012-08-06 Compelling and accessible, this Very Short Introduction challenges the perception of borders as passive lines on a map, revealing them instead to be integral forces in the economic, social, political, and environmental processes that shape our lives. Highlighting the historical development and continued relevance of borders, Alexander Diener and Joshua Hagen offer a powerful counterpoint to the idea of an imminent borderless world, underscoring the impact borders have on a range of issues, such as economic development, inter- and intra-state conflict, global terrorism, migration, nationalism, international law, environmental sustainability, and natural resource management. Diener and Hagen demonstrate how and why borders have been, are currently, and will undoubtedly remain hot topics across the social sciences and in the global headlines for years to come. This compact volume will appeal to a broad, interdisciplinary audience of scholars and students, including geographers, political scientists, anthropologists, sociologists, historians, international relations and law experts, as well as lay

readers interested in understanding current events.

Reconstructing the Tree of Life Trevor R. Hodkinson 2006-12-26 To document the world's diversity of species and reconstruct the tree of life we need to undertake some simple but mountainous tasks. Most importantly, we need to tackle species rich groups. We need to collect, name, and classify them, and then position them on the tree of life. We need to do this systematically across all groups of organisms and because of the biodiversity crisis we need to do it quickly. With contributions from key systematic and taxonomic researchers, *Reconstructing the Tree of Life: Taxonomy and Systematics of Species Rich Taxa* outlines the core of the problem and explores strategies that bring us closer to its solution. The editors split the book into three parts: introduction and general concepts, reconstructing and using the tree of life, and taxonomy and systematics of species rich groups (case studies). They introduce, with examples, the concept of species rich groups and discuss their importance in reconstructing the tree of life as well as their conservation and sustainable utilization in general. The book highlights how phylogenetic trees are becoming "supersized" to handle species rich groups and the methods that are being developed to deal with the computational complexity of such trees. It discusses factors that have led some groups to speciate to a staggering degree and also provides case studies that highlight the problems and prospects of dealing with species rich groups in taxonomy. To understand species rich taxa, evolution has set scientists a difficult, but not unattainable, challenge that requires the meshing together of phylogenetics and taxonomy, considerable advances in informatics, improved and increased collecting, training of taxonomists, and significant financial support. This book provides the tools and methods needed to meet that challenge.

Business Intelligence Rajiv Sabherwal 2013-02-19 Business professionals who want to advance their careers need to have a strong understanding of how to utilize business intelligence. This new book provides a comprehensive introduction to the basic business and technical concepts they'll need to know. It integrates case studies that demonstrate how to apply the material. Business professionals will also find suggested further readings that will develop their knowledge and help them succeed.

The Engaged Sociologist Kathleen Odell Korgen 2014-09-23 This fully updated edition of *The Engaged Sociologist* by Kathleen Odell Korgen carries the public sociology movement into the classroom, while at the same time providing an engaging overview of the entire field. It demonstrates how to think sociologically, to develop a sociological eye, and to use sociological tools to become effective participants in a democratic society. Perfect as a supplement for an introductory course, or as a main text for any course that has public sociology at its roots, this inspiring book will serve as a guidebook to any student who is passionate about applying sociological concepts to the world around them.

Joyful Mending Noriko Misumi 2020-03-17 *Joyful Mending* shows you how to fix old items of clothing, linens and household objects by turning tears and flaws into beautiful features. Simply by applying a few easy sewing, darning, felting, or crocheting techniques, as well as some sashiko and other favorite embroidery stitches, you can repair your favorite pieces in a transformative way. These techniques don't just save you money, but make your life more joyful, fulfilling and sustainable in an age of disposable "fast fashion." Author Noriko Misumi teaches you her philosophy of mending and reusing items based on the age-old Japanese concepts of mindfulness and Wabi Sabi (an appreciation of old and imperfect things). In her book, she shows you how to: Repair any kind of fabric

that is torn, ripped or stained—whether knitted or woven Work with damaged flat or curved surfaces to make them aesthetically pleasing again Create repairs that blend in, as well as bold or whimsical visible repairs Darn your handmade or expensive gloves, sweaters and socks to make them look great again The joy to be found in working with your hands and the personal artistry you discover within yourself lie at the heart of this book. While nothing lasts forever, there's pleasure, as well as purpose, in appreciating age and imperfection. Joyful Mending allows you to surround yourself with the things that truly give you joy, whether they were given to you by a loved one, picked up in your travels or simply have a special place in your heart.

Evolution Donald R. Prothero 2017-08-22 Donald R. Prothero's *Evolution* is an entertaining and rigorous history of the transitional forms and series found in the fossil record. Its engaging narrative of scientific discovery and well-grounded analysis has led to the book's widespread adoption in courses that teach the nature and value of fossil evidence for evolution. *Evolution* tackles systematics and cladistics, rock dating, neo-Darwinism, and macroevolution. It includes extensive coverage of the primordial soup, invertebrate transitions, the development of the backbone, the reign of the dinosaurs, and the transformation from early hominid to modern human. The book also details the many alleged "missing links" in the fossil record, including some of the most recent discoveries that flesh out the fossil timeline and the evolutionary process. In this second edition, Prothero describes new transitional fossils from various periods, vividly depicting such bizarre creatures as the *Odontochelys*, or the "turtle on the half shell"; fossil snakes with legs; and the "Frogamander," a new example of amphibian transition. Prothero's discussion of intelligent design arguments includes more historical examples and careful examination of the "experiments" and observations that are exploited by creationists seeking to undermine sound science education. With new perspectives, Prothero reframes creationism as a case study in denialism and pseudoscience rather than a field with its own intellectual dynamism. The first edition was hailed as an exemplary exploration of the fossil evidence for evolution, and this second edition will be welcome in the libraries of scholars, teachers, and general readers who stand up for sound science in this post-truth era.

All About Passion Stephanie Laurens 2009-03-17 New York Times bestselling Australian author Stephanie Laurens delivers the latest tale in the immensely popular Cynster series. When Chillingworth is elected an 'honorary Cynster' at the end of *All About Love*, he knows he needs a wife, and an heir. His goal; a simple marriage without romance. He agrees to marry a woman he believes to be pliant and quiet. Unfortunately for him, the woman he thinks is Francesca Rawling is really her cousin, Franni. Francesca herself is proud, passionate and opinionated in short, the perfect bride for a Cynster...

EmSAT Chemistry Achieve Sinclair Steele 2021-06-15 EmSAT Chemistry Achieve is designed to support students preparing to take the EmSAT Chemistry Achieve examination, who require high quality, reliable and authentic mock exam questions. - The text contains six sets of complete mock examination papers. - The questions are written to the style and standard of the actual EmSAT exam. - The questions are accompanied by answers and explanations designed to facilitate learning of the core chemical facts and principles. - The questions cover the entire chemistry syllabus by focusing on matter and energy. Accordingly, physical chemistry, inorganic chemistry and organic chemistry questions are included. - This book represents the most comprehensive and authoritative EmSAT Chemistry Achieve guide

currently available. - This book is a companion text to our EmSAT English Achieve book and is the second book in our EmSAT preparation series. These books promote our goal to facilitate the successful entry of students into UAE universities and colleges.

The Odes Pindar 2019-09-24 One of the most celebrated poets of the classical world, Pindar wrote odes for athletes that provide a unique perspective on the social and political life of ancient Greece. Commissioned in honor of successful contestants at the Olympic games and other Panhellenic contests, these odes were performed in the victors' hometowns and conferred enduring recognition on their achievements. Andrew M. Miller's superb new translation captures the beauty of Pindar's forty-five surviving victory odes, preserving the rhythm, elegance, and imagery for which they have been admired since antiquity while adhering closely to the meaning of the original Greek. This edition provides a comprehensive introduction and interpretive notes to guide readers through the intricacies of the poems and the worldview that they embody.

Assembling the Tree of Life Joel Cracraft 2004-07-22 This edited volume is provides an authoritative synthesis of knowledge about the history of life. All the major groups of organisms are treated, by the leading workers in their fields. With sections on: The Importance of Knowing the Tree of Life; The Origin and Radiation of Life on Earth; The Relationships of Green Plants; The Relationships of Fungi; and The Relationships of Animals. This book should prove indispensable for evolutionary biologists, taxonomists, ecologists interested in biodiversity, and as a baseline sourcebook for organismic biologists, botanists, and microbiologists. An essential reference in this fundamental area.

VHDL: Programming by Example Douglas Perry 2002-06-02 * Teaches VHDL by example * Includes tools for simulation and synthesis * CD-ROM containing Code/Design examples and a working demo of ModelSIM

Evolution Education Around the Globe Hasan Deniz 2018-06-21 This edited book provides a global view on evolution education. It describes the state of evolution education in different countries that are representative of geographical regions around the globe such as Eastern Europe, Western Europe, North Africa, South Africa, North America, South America, Middle East, Far East, South East Asia, Australia, and New Zealand. Studies in evolution education literature can be divided into three main categories: (a) understanding the interrelationships among cognitive, affective, epistemological, and religious factors that are related to peoples' views about evolution, (b) designing, implementing, evaluating evolution education curriculum that reflects contemporary evolution understanding, and (c) reducing antievolutionary attitudes. This volume systematically summarizes the evolution education literature across these three categories for each country or geographical region. The individual chapters thus include common elements that facilitate a cross-cultural meta-analysis. Written for a primarily academic audience, this book provides a much-needed common background for future evolution education research across the globe.

Fossil Horses Bruce J. MacFadden 1994-06-24 The horse has frequently been used as a classic example of long-term evolution because it possesses an extensive fossil record. This book synthesizes the large body of data and research relevant to an understanding of fossil horses from perspectives such as biology, geology, paleontology.

Simutext Simutext 2014-06-01

A New Biology for the 21st Century National Research Council 2009-11-20 Now more than ever, biology has the potential to contribute practical solutions to many of

the major challenges confronting the United States and the world. A New Biology for the 21st Century recommends that a "New Biology" approach--one that depends on greater integration within biology, and closer collaboration with physical, computational, and earth scientists, mathematicians and engineers--be used to find solutions to four key societal needs: sustainable food production, ecosystem restoration, optimized biofuel production, and improvement in human health. The approach calls for a coordinated effort to leverage resources across the federal, private, and academic sectors to help meet challenges and improve the return on life science research in general.

The Phylogenetic Handbook Philippe Lemey 2009-03-26 A broad, hands on guide with detailed explanations of current methodology, relevant exercises and popular software tools.

The Structure of Evolutionary Theory Stephen Jay Gould 2002-03-21 The world's most revered and eloquent interpreter of evolutionary ideas offers here a work of explanatory force unprecedented in our time—a landmark publication, both for its historical sweep and for its scientific vision. With characteristic attention to detail, Stephen Jay Gould first describes the content and discusses the history and origins of the three core commitments of classical Darwinism: that natural selection works on organisms, not genes or species; that it is almost exclusively the mechanism of adaptive evolutionary change; and that these changes are incremental, not drastic. Next, he examines the three critiques that currently challenge this classic Darwinian edifice: that selection operates on multiple levels, from the gene to the group; that evolution proceeds by a variety of mechanisms, not just natural selection; and that causes operating at broader scales, including catastrophes, have figured prominently in the course of evolution. Then, in a stunning tour de force that will likely stimulate discussion and debate for decades, Gould proposes his own system for integrating these classical commitments and contemporary critiques into a new structure of evolutionary thought. In 2001 the Library of Congress named Stephen Jay Gould one of America's eighty-three Living Legends—people who embody the “quintessentially American ideal of individual creativity, conviction, dedication, and exuberance.” Each of these qualities finds full expression in this peerless work, the likes of which the scientific world has not seen—and may not see again—for well over a century.

The Red Junglefowls ... Gardiner Bump 1970

Niche Wars John Blaxland 2020-12-15 Australia invoked the ANZUS Alliance following the Al Qaeda attacks in the United States on 11 September 2001. But unlike the calls to arms at the onset of the world wars, Australia decided to make only carefully calibrated force contributions in support of the US-led coalition campaigns in Afghanistan and Iraq. Why is this so? *Niche Wars* examines Australia's experience on military operations in Afghanistan and Iraq from 2001 to 2014. These operations saw over 40 Australian soldiers killed and hundreds wounded. But the toll since has been greater. For Afghanistan and Iraq the costs are hard to measure. Why were these forces deployed? What role did Australia play in shaping the strategy and determining the outcome? How effective were they? Why is so little known about Australia's involvement in these campaigns? What lessons can be learned from this experience? *Niche Wars* commences with a scene-setting overview of Australia's military involvement in the Middle East over more than a century. It then draws on unique insights from many angles, across a spectrum of men and women, ranging from key Australian decision makers, practitioners and observers. The book includes a wide range of perspectives in chapters written by federal

government ministers, departmental secretaries, service commanders, task force commanders, sailors, soldiers, airmen and women, international aid workers, diplomats, police, journalists, coalition observers and academics. *Niche Wars* makes for compelling reading but also stands as a reference work on how and why Australia became entangled in these conflicts that had devastating consequences. If lessons can be learned from history about how Australia uses its military forces, this book is where to find them.

On Becoming a Biologist John Janovy 2004-01-01 ?We share a common bond with even the most bizarre beetle of the Peruvian rain forest,? asserts John Janovy Jr. ?A belief in that common bond might, in fact, be the most fundamental characteristic of a biologist.? And biologists see the worth of a plant or an animal not in monetary terms but in its contribution to our understanding of life. The famous naturalist brings a humanist's vision to this superbly written book. *On Becoming a Biologist* is grounded in reality, cognizant of practical matters (education and jobs) as well as the ideals that inform the profession—a reverence for life and a responsibility to humankind and its future. Janovy draws on his experiences as a graduate and postdoctoral student, on his rewarding relationships with teachers, and on his fieldwork as a naturalist. This edition includes new information throughout the book regarding pertinent events, issues, and changes in technology. *Augmented Learning* Eric Klopfer 2008 New technology has brought with it new tools for learning, and research has shown that the educational potential of video games resonates with teachers and pupils alike. Klopfer here describes the largely untapped potential of mobile learning games to make a substantial impact on education.

Hawaiki Rising Sam Low 2019-11-30 Attuned to a world of natural signs—the stars, the winds, the curl of ocean swells—Polynesian explorers navigated for thousands of miles without charts or instruments. They sailed against prevailing winds and currents aboard powerful double canoes to settle the vast Pacific Ocean. And they did this when Greek mariners still hugged the coast of an inland sea, and Europe was populated by stone-age farmers. Yet by the turn of the twentieth century, this story had been lost and Polynesians had become an oppressed minority in their own land. Then, in 1975, a replica of an ancient Hawaiian canoe—Hōkūle'a—was launched to sail the ancient star paths, and help Hawaiians reclaim pride in the accomplishments of their ancestors. *Hawaiki Rising* tells this story in the words of the men and women who created and sailed aboard Hōkūle'a. They speak of growing up at a time when their Hawaiian culture was in danger of extinction; of their vision of sailing ancestral sea-routes; and of the heartbreaking loss of Eddie Aikau in a courageous effort to save his crewmates when Hōkūle'a capsized in a raging storm. We join a young Hawaiian, Nainoa Thompson, as he rediscovers the ancient star signs that guided his ancestors, navigates Hōkūle'a to Tahiti, and becomes the first Hawaiian to find distant landfall without charts or instruments in a thousand years. *Hawaiki Rising* is the saga of an astonishing revival of indigenous culture by voyagers who took hold of the old story and sailed deep into their ancestral past.

The Evolutionary Synthesis Ernst Mayr 1998 Biology was forged into a single, coherent science only within living memory. In this volume the thinkers responsible for the "modern synthesis" of evolutionary biology and genetics come together to analyze that remarkable event. In a new Preface, Ernst Mayr calls attention to the fact that scientists in different biological disciplines varied considerably in their degree of acceptance of Darwin's theories. Mayr shows us that these differences were played out in four separate periods: 1859 to 1899,

1900 to 1915, 1916 to 1936, and 1937 to 1947. He thus enables us to understand fully why the synthesis was necessary and why Darwin's original theory—that evolutionary change is due to the combination of variation and selection—is as solid at the end of the twentieth century as it was in 1859.

Bound Carbohydrates in Nature Leonard Warren 1994-02-17 This 1994 book is based on a series of six lectures delivered at the University of Sienna under the auspices of the Lezioni Lincee. The content of the book reflects and delineates the author's career in biochemical research. The lectures revolve around the special role which bound carbohydrates play in nature. Also discussed are the properties of membrane glycoproteins, involved in the resistance of cells to drugs. The metabolism of sugars and sialic acids, which form a pivotal role in the author's research, are covered in detail. The book chronicles just some of the huge advances which have been made in biochemistry over the past few decades and will prove an invaluable and entertaining first hand account for researchers and graduate students.

Breathe Belisa Lozano-Vranich 2014-02-14 Using straightforward jargon-free language, BREATHE presents Dr. Belisa's unique approach to breathing exercises. It is a book for people who are looking to address their fatigue, sleeping problems, anxiety, and stress - all of which are worsened by shallow, erratic inefficient breaths and, consequently, suboptimal oxygenation of the body and brain at a cellular level. In addition, the exercises and theory taught in BREATHE will result in better endurance in sports. You'll be taking care of yourself from the inside out. Dr. Belisa's method teaches you to relearn or remember how you used to breathe rather than teach you a skill requiring the attention and motivation that it takes to acquire a new habit. Dr. Belisa asks you put aside ten minutes a day for fourteen days, working from your baseline, and pushing yourself just as you would in a gym or in physical therapy. The result: more energy, less pain, lower cortisol (and control of belly fat), less GI problems, and a better immune system. The explosion of technology, longer hours spent seated at a desk or car, and high levels of daily stress everyone accepts as normal have had a tremendous effect on the way people breathe. This in turn has created or exacerbated medical problems such as high blood pressure, irritable bowel, and insomnia. BREATHE is a primer that covers all the critical core issues related to oxygen, your lungs, and your

breathing patterns. It teaches you how to breathe in an anatomically congruous way that maximizes inhaled and exhaled, lung expansion, and ribcage flexibility. Finally, BREATHE is perfect for someone wanting to explore concepts of mindfulness and meditation. If you are looking to improve such brain functions as focusing and problem solving, or if you just want to relax and rejuvenate by quickly ridding yourself of oxidative stress of the day, this book is for you.

Molecular Evolution Roderick D.M. Page 2009-07-14 The study of evolution at the molecular level has given the subject of evolutionary biology a new significance. Phylogenetic 'trees' of gene sequences are a powerful tool for recovering evolutionary relationships among species, and can be used to answer a broad range of evolutionary and ecological questions. They are also beginning to permeate the medical sciences. In this book, the authors approach the study of molecular evolution with the phylogenetic tree as a central metaphor. This will equip students and professionals with the ability to see both the evolutionary relevance of molecular data, and the significance evolutionary theory has for molecular studies. The book is accessible yet sufficiently detailed and explicit so that the student can learn the mechanics of the procedures discussed. The book is intended for senior undergraduate and graduate students taking courses in molecular evolution/phylogenetic reconstruction. It will also be a useful supplement for students taking wider courses in evolution, as well as a valuable resource for professionals. First student textbook of phylogenetic reconstruction which uses the tree as a central metaphor of evolution. Chapter summaries and annotated suggestions for further reading. Worked examples facilitate understanding of some of the more complex issues. Emphasis on clarity and accessibility.

The Course Syllabus Judith Grunert O'Brien 2008-03-28 When it was first published in 1997, The Course Syllabus became the gold standard reference for both new and experienced college faculty. Like the first edition, this book is based on a learner-centered approach. Because faculty members are now deeply committed to engaging students in learning, the syllabus has evolved into a useful, if lengthy, document. Today's syllabus provides details about course objectives, requirements and expectations, and also includes information about teaching philosophies, specific activities and the rationale for their use, and tools essential to student success.