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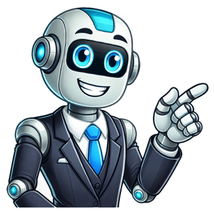

Biological science textbook 3rd edition free download

The Cambridge IGCSE Biology Coursebook (third edition) by Mary Jones and Geoff Jones is available for preview. To access the book, request that the publishers restore availability to over 500,000 titles. Several authors contributed to various resources related to Anatomy and Physiology. The Anatomy and Physiology Histology Atlas offers interactive H5P activities to help students understand tissue histology better. The lab manuals and videos were created using Affordable Materials Grants, covering topics such as blood, heart, vessels, and human development. The Georgia Highlands College Laboratory Manual for Foundations of Biology was revised with a Round Twelve ALG Mini-Grant for Ancillary Materials and Revisions. Lab exercises include the Scientific Method, microscopy, cellular respiration, and cell structure & function. A textbook remix developed through a Round 15 Textbook Transformation Grant covers chapters on cytoskeleton, DNA packaging, transcription, and more. This collection of lab manuals and instructor guides was developed through various grants from the Affordable Learning Georgia (ALG) Textbook Transformation Grant initiative. The materials cover a range of subjects including microbiology, general zoology, genetics, and biology. Each guide provides detailed outlines of chapters, study guides with varied questions, and teaching tips to promote active learning. The microbiology lab manual covers topics such as smear preparation, staining methods, and bacterial isolation from mixed cultures. The general zoology lab manual includes six individual labs and a collection project that can be completed outdoors. Meanwhile, the genetics laboratory manual discusses cell cycle mutations, cancer detection, cytogenetics, forensics, and chromosome mapping. The instructor's guide for Concepts of Biology provides brief outlines of chapters 12-21, detailed outlines for lecturing, and structured notes for students. Additionally, it includes study guides with questions, web resources, copyright information, and teaching tips to promote active learning. The appendices contain accessible files with optical character recognition (OCR) and auto-tagging provided by the Center for Inclusive Design and Innovation. Another lab manual covers BIOL 1012 at Georgia Highlands College, addressing topics such as classification and evolution, diversity of microbes, invertebrates, vertebrates, field identification of birds, and epidemiology. This set was created under an Affordable Materials Grant. Caralyn Zehnder, Kalina Manoylov, Samuel Mutiti, Christine Mutiti, Allison VandeVoort, and Donna Bennett’s Environmental Science textbook is a revised version of their previous edition, published in 2017. The authors emphasize the use of biology and earth science principles as a framework for understanding environmental policies and resource management. As the planet faces unprecedented environmental challenges, this course aims to equip students with the scientific knowledge necessary to contribute to Earth's future. ENSC 1000 covers essential topics such as cells, membranes, DNA, enzymes, evolution, inheritance, inorganic chemistry, microscopes, photosynthesis, respiration, and scientific measurement. The authors encourage students to engage fully with the course material and participate actively in the search for and sharing of information. The course objectives include evaluating diverse responses to environmental issues, predicting outcomes, demonstrating knowledge of climate change causes and consequences, applying quantitative skills, and designing experiments. Additionally, the textbook highlights the importance of critical observation, data interpretation, and environmental law. This open textbook is a remix of Openstax Microbiology, created through an Affordable Learning Georgia Round Six Textbook Transformation Grant. The authors have incorporated supplemental materials to support student learning. This lab manual is specifically designed to cater to the needs of most microbiology courses for allied health students. The content has been structured in a logical progression from basic concepts to more advanced ones, ensuring that learners can build upon their existing knowledge. The opening chapters provide an overview of microbiology, with individual chapters focusing on cellular biology and different types of microorganisms, as well as methods to control microbial growth. Subsequent sections delve into microbial pathogenicity, examining the interactions between microbes and the human immune system in relation to health and disease. The final chapters offer a comprehensive survey of medical microbiology, presenting characteristics of microbial diseases organized by body system. Additionally, this lab manual includes accessible files with optical character recognition (OCR) and auto-tagging provided by the Center for Inclusive Design and Innovation. This open-source resource was created through an Affordable Learning Georgia Round Six Textbook Transformation Grant, allowing users to access the manual without incurring additional costs. Mini-grants supported several biology laboratory manuals, including Principles of Biology II Laboratory, Principles of Biology I Laboratory, and Anatomy and Physiology I & II. The topics covered in these labs span various biological disciplines, such as evolution, microbiology, ecology, microscopy, animal diversity, vertebrate anatomy, and behavior. The lab manuals are divided into chapters and include accompanying PowerPoint slides and quizzes. The University of Georgia's Functional Human Anatomy lab manual was revised through a Scaling Up OER Pilot Grant and is accessible online. The manual covers various labs, including Blood Composition, Heart Anatomy, Cardiovascular Physiology, and more. It features optical character recognition (OCR) and auto-tagging provided by the Center for Inclusive Design and Innovation. Rob Nichols created this lab manual under a Textbook Transformation Grant, which focused on Functional Human Anatomy at the University of Georgia. The manual is available online and contains labs such as Introduction to Anatomical Terminology, Back: Skeletal Framework, and Body Cavities and Mesenteries. Biological Science, edited by R. Soper, is another notable publication that has been completely revised and updated for comprehensive coverage of major biology syllabuses at Advanced level. It also includes new material on microbiology and biotechnology, human health and disease, and practical investigations throughout the text. The list of countries includes Gabon to Zimbabwe, and there are also a few territories. 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