

By Scott Freeman Biological Science 4th Edition

From the Publisher: Most closely associated today with the Nazis and World War II atrocities, eugenics is sometimes described as a government-orchestrated breeding program, other times as a pseudo-science, and often as the first step leading to genocide. Less frequently is it depicted as a movement having links to America—a nation that has historically prided itself for its scientific rationality. But eugenics does have a history in the United States—a history that is largely the story of biologist Charles Davenport. Davenport, who led the Eugenics Records Office in the late nineteenth century, provided physicians, social scientists, and lawmakers with the scientific data and authority that enabled them to coercively sterilize men and women who were thought to be socially deviant, unfit to pass on their genes, and unable to raise healthy children. Moreover, Mark A. Largent shows how even in modern times, remnants of eugenics philosophies persist in this country as certain public figures advocate a brand of birth control—such as progesterone shots for male criminals—that are only steps away from the castrations that were once performed.

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Biological Science, Global Edition

Take a big-picture look at teaching and learning. Building on existing pedagogical research, this volume showcases the scholarship of teaching and learning (SoTL) across the disciplines—and takes it in a new direction. In each chapter, interdisciplinary teams of authors address a single pedagogical question, bringing each of their home disciplines specific literature and methodologies to the table. The result is a fresh examination of evidence-based practices for teaching and learning in higher education that is intentionally inclusive of faculty from different disciplines. By taking a closer, more systematic look at the pedagogies used within the disciplines and their impacts on student learning, the authors herein move away from more generic teaching tips and generic classroom activities and toward values, knowledge, and manner of thinking within SoTL itself. The projects discussed in each chapter, furthermore, will provide models for further research via interdisciplinary collaboration. This is the 151st volume of this Jossey-Bass higher education series. It offers a comprehensive range of ideas and techniques for improving college teaching based on the experience of seasoned instructors and the latest findings of educational and psychological researchers.

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For introductory courses for biology majors. Uniquely engages biology students in active learning, scientific thinking, and skill development. Scott Freeman's Biological Science is beloved for its Socratic narrative style, its emphasis on experimental evidence, and its dedication to active learning. Science education research indicates that true mastery of content requires a move away from memorization towards active engagement with the material in a focused, personal way. Biological Science is designed to equip students with strategies to assess their level of understanding and identify the types of cognitive skills that need improvement. With the Sixth Edition, content has been streamlined with an emphasis on core concepts and core competencies from the Vision and Change in Undergraduate Biology Education report. The text's unique BioSkills section is now placed after Chapter 1 to help students develop key skills needed to become a scientist, new "Making Models" boxes guide learners in interpreting and creating models, and new "Put It all Together" case studies conclude each chapter and help students see connections between chapter content and current, real-world research questions. New, engaging content includes updated coverage of global climate change, advances in genomic editing, and recent insights into the evolution of land plants. MasteringBiology™ not included. Students, if MasteringBiology is a recommended/mandatory component of the course, please ask your instructor for the correct ISBN and course ID. MasteringBiology should only be purchased when required by an instructor. Instructors, contact your Pearson representative for more information. MasteringBiology is an online homework, tutorial, and assessment product designed to personalize learning and improve results. With a wide range of interactive, engaging, and assignable activities, students are encouraged to actively learn and retain tough course concepts.

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Humans are unique in their ability to reflect on themselves. Recently a number of scholars have pointed out that human self-conceptions have a history. Ideas of human nature in the West have always been shaped by the interplay of philosophy, theology, science, and technology. The fast pace of developments in the latter two spheres (neuroscience, genetics, artificial intelligence, biomedical engineering) call for fresh reflections on what it means, now, to be human, and for theological and ethical judgments on how we might shape our own destiny in the future. The leading scholars in this book offer fresh contributions to the lively quest for an account of ourselves that does justice to current developments in theology, science, technology, and philosophy.

For courses in general biology for majors. Biological Science is a dynamic reference that involves students in the process of scientific discovery. Infused with the spirit of inquiry, Biological Science teaches students to think like biologists and prepares them for success in their upper division courses.

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This book provides readers with an integrative overview of the latest research and developments in the broad field of biomedical engineering. Each of the chapters offers a timely review written by leading biomedical engineers and aims at showing how the convergence of scientific and engineering fields with medicine has created a new basis for practically solving problems concerning human health, wellbeing and disease. While some of the latest frontiers of biomedicine, such as neuroscience and regenerative medicine, are becoming increasingly dependent on new ideas and tools from other disciplines, the paradigm shift caused by technological innovations in the fields of information science, nanotechnology, and robotics is opening new opportunities in healthcare, besides dramatically changing the ways we actually practice science. At the same time, a new generation of engineers, fluent in many different scientific "languages," is creating entirely new fields of research that approach the "old" questions from a new and holistic angle. The book reports on the scientific revolutions in the field of biomedicine by describing the latest technologies and findings developed at the interface between science and engineering. It addresses students, fellows, and faculty and industry investigators searching for new challenges in the broad biomedical engineering fields.

Learn biology by learning to think like a scientist. Biological Science, Canadian Edition, brings together Scott Freeman's pioneering active learning approach with carefully selected coverage of Canadian issues and research. Each page of the book is designed in the spirit of active learning, asking students to apply critical thinking skills as they learn key concepts. Accounts of researchers designing and analyzing real experiments, carefully punctuated by thoughtful questions and exercises, train introductory students in the process of DOING biology. Exciting biological research is carried out in Canada. Canadian researchers are cutting-edge scientists, work with or lead international teams, and design interesting, insightful experiments. The Canadian edition of Scott Freeman's Biological Science showcases Canadian issues and research, for example: the organic molecules on the Tagish Lake meteorite in BC, and the Genome Canada organization.

Supports and motivates students as they learn to think scientifically and use the skills of a biologist. Scott Freeman's Biological Science is beloved for its Socratic narrative style, its emphasis on experimental evidence, and its dedication to active learning. In the Fifth Edition, the author team has expanded to include new members-bringing a fresh focus on accuracy and currency, and multiplying the dedication to active learning by six. Research indicates that true mastery of content requires a move away from memorization towards active engagement with the material in a focused, personal way. Biological Science is the first introductory biology text designed to equip students with a strategy to accurately assess their level of understanding, predict their performance, and identify the types of cognitive skills that need improvement.

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This workbook offers a variety of activities such as modeling, mapping, and graphing to help students with different learning styles to visualize and understand biological processes.

A range of pre-loaded content such as testing and assessment of question pools, chapter-level outlines, interactive web-based activities, animations, web links, illustrations, and photos are available as open-access and premium versions and with either TestGen or Test Item File computerized test banks.

By Warren Burggren, University of North Texas; Jay Brewster, Pepperdine University; Laurel Hester, South Carolina Governor's School for Science and Mathematics. Rather than repeat what

is covered in the textbook, the Student Study Guide will help students study biology and think like a scientist. Introductory chapters on Data Interpretation, Looking for Relationships, Experimentation and Writing will be illustrated and developed for the student. Each text chapter will then be covered with the goal of reinforcing the ideas mentioned in introductory chapters and to tie them to appropriate topics within a chapter.

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