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— Joceline Boucher, Associate Academic Dean, Maine Maritime Academy

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MEET JEFFREY POMMERVILLE, PhD
Award-winning Educator and Author

For the past 25 years, Jeffrey Pommerville, PhD has been the Professor of Biology at Glendale Community College in Arizona where he teaches introductory biology and microbiology. He has 35 years of research experience in cell biology and microbiology and has authored almost 40 peer-reviewed papers in national and international research and science education journals.

Dr. Pommerville was the principal investigator for Systemic Reform In Science (SyRIS), a project funded by the National Science Foundation that was designed to improve student outcomes in science through changes in curriculum and pedagogy that align with national systemic reform initiatives. In 2003, he was awarded the Gustav Ohaus Award (College Division) for Innovations in Science Teaching from the National Science Teachers Association. More recently, his passion for science education was again recognized when he was awarded the 2008 Carski Foundation Distinguished Undergraduate Teaching Award for distinguished teaching of microbiology to undergraduate students and encouraging them to subsequent achievement.

We are pleased and honored to work with Jeff on numerous microbiology texts as well as digital resources for both students and instructors. This year we worked very closely with Jeff on updating and revising a third edition of Fundamentals of Microbiology: Body Systems Edition and Microbes and Society, Fourth Edition, in which he took on the role of lead author. I know you will find his texts to be student-friendly, and comprehensive but accessible for majors and non-majors alike. With that in mind, we invite you to browse this catalog and request complimentary review copies for course adoption consideration.

Sincerely,

Lindsay White
Marketing Manager
lwhite@jblearning.com
Fundamentals of Microbiology
TENTH EDITION
AVAILABLE WITH NAVIGATE 2 ADVANTAGE ACCESS

Jeffrey Pommerville, Glendale Community College

The tenth edition of the best-selling, award-winning classic text Fundamentals of Microbiology provides nursing and allied health students with a firm foundation in microbiology. Updated to reflect the Curriculum Guidelines for Undergraduate Microbiology as recommended by the American Society for Microbiology, the fully revised Tenth Edition includes all-new pedagogical features and the most current research data. This edition incorporates updates on infectious disease and the human microbiome, a revised discussion of the immune system, and an expanded Learning Design Concept feature that challenges students to develop critical-thinking skills.

KEY FEATURES

- New Investigating the Microbial World feature in each chapter encourages students to participate in the scientific investigation process and challenges them to apply the process of science and quantitative reasoning through related actual experiments
- Redesigned and updated figures and tables increase clarity and student understanding
- Includes new and revised critical thinking exercises included in the end-of-chapter material
- Incorporates updated and new MicroFocus and MicroInquiry boxes, and Textbook Cases

Instructor Resources: AN, IB, IM, NV, PP, TB
Student Resources: AN, CW, LM, NV, SG
eBook Options: C, Q, E
Learn More at: go.jblearning.com/FOM10e

Alcamo’s Laboratory Fundamentals of Microbiology
TENTH EDITION

Jeffrey C. Pommerville, Glendale Community College

This popular lab manual offers thirty-four multi-part lab exercises designed to provide students with basic training in the handling of microorganisms, while exploring microbial properties and uses. This lab manual can also be used independently of the main text.

Instructor Resources: AN, IM
eBook Options: C
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Fundamentals of Microbiology
Body Systems Edition
THIRD EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

Jeffrey C. Pommerville, Glendale Community College

Ideal for health science and nursing students, the fully revised and updated third edition of this bestselling text contains new pedagogical elements and an established learning design format that improves comprehension and retention and makes learning more enjoyable. Unlike other texts in the field, Fundamentals of Microbiology: Body Systems Edition takes a global perspective on microbiology and infectious disease, and supports students in self-evaluation and concept absorption. Furthermore, it includes real-life examples to help students understand the significance of a concept and its application in today’s world, whether to their local community or beyond. New information pertinent to nursing and health sciences has been added, while many figures and tables have been updated, revised, and/or reorganized for clarity. Comprehensive but accessible, Fundamentals of Microbiology: Body Systems Edition, Third Edition is an essential text for non-science majors in health science and nursing programs taking an introductory microbiology course.

KEY FEATURES

- Updated to reflect the Curriculum Guidelines for Undergraduate Microbiology as recommended by the American Society for Microbiology
- A redesigned format and art package help to simplify difficult concepts
- New Microbiology Animations (embedded in the Navigate eBook) throughout the chapters dynamically explain many core concepts, providing students with an additional tool to master microbiology
- New Chapter Challenges provide stimulating activities to extend students’ thinking beyond the basic concepts discussed, developing critical thinking skills
- New Investigating the Microbial World boxes offer actual experiments that require students to apply the process of science, use quantitative reasoning, and evaluate experimental results
- New and revised MicroFocus boxes explore interesting topics applying microbiology and microorganisms to the real world
- New and revised MicroInquiry boxes allow students to interactively investigate a vital concept in the chapter
- New and revised Clinical Cases (formerly Textbook Cases) are embedded in all the chapters to help students understand pathogens through presentation of contemporary human disease scenarios


Instructor Resources: AN, IB, IM, NV, PP, TB
Student Resources: AN, LM, NV, SG

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KEY FEATURES

- Includes 20 NEW interactive animations!
- Brings key microbiology concepts to life through dynamic, interactive exercises.
- Each animation is based on a real-world microbiology application.
- “Speed Bump” questions throughout each animation ask students to pause and assess their understanding of the concept at hand.
- Narrated exercises fully engage students in the learning process.
- Exercises and Assessment questions are offered in a variety of formats including drag and drop, order of processes, multiple choice, and fill-in-the-blank.

The Jones & Bartlett Learning suite of animations demonstrates the processes of or concepts involving:

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- **Noncompetitive and Competitive Inhibition**
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newly incorporated animations are in **bold**

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Alcamo’s Microbes and Society
FOURTH EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

Jeffrey C. Pommerville,
Glendale Community College

Perennial best-seller *Alcamo’s Microbes and Society* is the ideal text for non-majors taking a foundational course in the life sciences. Like its predecessors, the *Fourth Edition* discusses the role of microbes in our daily lives, from food production to biotechnology, and provides extensive coverage of both the positive and negative roles microbes play. The text explores the function of microbes in ecological and environmental systems, as well as key current issues such as antibiotic resistance, the importance of vaccines, and emerging microbial diseases. Students will come away with a critical understanding of the broad impact microbes have on our society.

The *Fourth Edition* retains the user-friendly readability of previous editions while incorporating original features and material, including new information on viruses and microbial groups, new data on microbes in agriculture and the environment, current applications of genetic engineering and biotechnology, and fully updated coverage of microbes and the human microbiome. Discussions of the immune system, bacterial growth and metabolism, and viral and bacterial diseases have been revised for clarity and concept retention, and coverage of food microbiology, vaccines, and human health has been expanded. Thorough but accessible for non-science-majors, *Alcamo’s Microbes and Society, Fourth Edition* is an essential text for students taking an introductory microbiology course.

**KEY FEATURES**

- Features a student-friendly writing style and balanced approach to provide an accessible introduction to microbiology
- Presents the latest information on contemporary issues, such as microbes in agriculture and the environment, the human microbiome, and current, real-world applications of genetic engineering and biotechnology
- Includes pedagogical features to enhance clarity and retention, including “A Closer Look,” “Looking Ahead” boxes, and end-of-chapter Questions to Consider
- Contains a glossary of key terms with clear definitions and marginal pronunciation keys throughout


Instructor Resources: AN, IB, IM, NV, PP, TB
Student Resources: AN, LM, NV, SG

eBook Options:

Learn More at: go.jblearning.com/MicrobesandSociety4e
The Microbial Challenge
A Public Health Perspective
THIRD EDITION

Robert I. Krasner, Professor Emeritus, Providence College
Teri Shors, University of Wisconsin, Oshkosh

The third edition of The Microbial Challenge: A Public Health Perspective focuses on human-microbe interactions and considers bacterial, viral, prion, protozoan, fungal, and helminthic (worm) diseases. The response of the immune system, concepts of epidemiology, and measures of control from the individual to the international level to thwart potentially life-threatening epidemics are described. Sections on fungi and fungal diseases are new. The Third Edition includes new and contemporary information on vaccinations, antibiotic resistant microbes, practical disinfection information, virotherapy, and emerging diseases. New boxes throughout the text feature items of human interest such as big and bizarre viruses, probiotics, rats, and synthetic biology. Ancillary instructor and student resources have been updated and expanded including the end of the chapter Self Evaluations.

KEY FEATURES
- New end-of-chapter questions included in every chapter
- A wealth of new feature boxes add a real-world perspective to the topics at hand
- New data on virotherapy and prions as infectious agents
- New and updated statistics and data tables included throughout the text
- Includes the latest on emerging and reemerging infectious diseases as major health problems
- A new section on fungi has been added.
- Includes an extensive list of novels and readings based on microbes
- A full suite of instructor resources, including an Image Bank in PowerPoint format, Answers to the end of chapter questions, Presentations in PowerPoint format, and a Test Bank

“Although there are thousands of microbe species, this fascinating book focuses on those that cause human disease...Each chapter now has a variety of ‘assists’ and ends with an overview and self-evaluation questions. At the end of the book are a well-done glossary, an appendix of references, and an index. There is also a companion website. The inside covers contain relevant headlines from Internet news or blogs relating to microbes.”

—Steven K. Hamick, BIS, RCP, RRT (William Beaumont Hospitals)

Doody’s Review Service: ★★★★★


Instructor Resources: AE, IB, PP, TB

Student Resources: CW

eBook Options: [C] [Q] [E]

Learn More at: go.jblearning.com/MicroChallenge3e

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Encounters in Microbiology
Jeffrey C. Pommerville, Glendale Community College

In these two volumes, emergency room physicians and specialists are medical detectives in numerous “Vital Signs” articles from *Discover Magazine*. In these accounts, the patients suffer from serious and puzzling illnesses. The physicians must take the available evidence and narrow the possibilities. They need all of their experience, intuition, and a few crucial observations to diagnose the microbial disease.

**Volume 1, Second Edition**
Paperback • 119 pages • © 2009

**Volume 2, Second Edition**
Paperback • 91 pages • © 2009

Guide to Infectious Diseases by Body System
SECOND EDITION
Jeffrey C. Pommerville, Glendale Community College

The ideal accompaniment to any microbiology, virology, human biology, and allied health course, this guide is a mini atlas of microbial diseases afflicting humans. Organized by body system, each unit presents a brief introduction to the anatomical system and the bacterial, viral, fungal, or parasitic organisms infecting the system. Full-color anatomical illustrations are labeled with the diseases’ signs and symptoms. Each unit also provides brief descriptions of each disease, their cause, and treatments. This book makes an excellent infectious disease primer and quick reference for any microbiology, anatomy and physiology, or human biology student.

Paperback • 33 pages • © 2012

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Understanding Viruses
SECOND EDITION

Teri Shors, University of Wisconsin, Oshkosh

Written for undergraduate students majoring in biology, microbiology, medical technology, or pre-med, the second edition of Understanding Viruses provides a balanced approach to this fascinating discipline, combining the molecular, clinical, and historical aspects of virology. Updated throughout to keep pace with this fast-moving field, the text provides a strong, comprehensive introduction to human viral diseases. New material on molecular virology as well as new virus families presented, coupled with chapters on viral diseases of non-human animals; the history of clinical trials, gene therapy, and xenotransplantation; prions and viroids; plant viruses; and bacteriophages add to the scope of the text. Chapters discussing specific viral diseases weave in an epidemiological and global perspective and include treatment and prevention information. Contemporary case studies, Refresher Boxes, and Virus Files engage students in the learning process.

Encounters in Virology

Teri Shors, University of Wisconsin, Oshkosh

Encounters in Virology engages readers with 14 fascinating and thought-provoking case studies pulled from headline news. Each account describes an individual viral disease, along with the signs and symptoms that accompany it, and asks students to become medical detectives as they move along to identify and diagnose these potentially life-threatening viral diseases. An ideal supplement to any microbiology or virology course, as well as an entertaining and informative read, Encounters in Virology is sure to bring these realistic medical tales to life as readers race against time to solve these medical mysteries.
The seventh edition of this best-selling text provides readers with a solid overview of AIDS from both a biomedical and a psychosocial perspective. It covers the molecular and cellular aspects of the virus and the immune system's response to it, and examines epidemiology and its role in understanding HIV and AIDS. The use of understandable vocabulary and clear illustrations, along with updated biomedical data and the most current statistics on AIDS available, makes *AIDS: Science and Society* an engaging resource for students, researchers, and general readers.


The sixth edition of this award-winning text continues to educate students about effectively controlling the spread of HIV and AIDS. Designed for non-science majors taking a special topics and/or general education course, *AIDS: The Biological Basis, Sixth Edition* is a comprehensive and accessible text that explores the history of AIDS and includes the latest information on HIV testing. It provides background material to help students understand the biological basis of this continuing pandemic.


*How Pathogenic Viruses Think* covers the essential elements of virus-host interactions with descriptive graphics, helpful mnemonic tactics for retaining the information, and brief reviews of important concepts. It is an ideal book to help medical, science, and nursing students make sense of this complex subject.

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