“An understanding of public health issues is a critical component of good citizenship and a prerequisite for taking responsibility for building healthy societies.”

—The Association of American Colleges and Universities

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✓ Authors who have worked collaboratively to ensure that their books fit together as an integrated whole.

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✓ Accompanying Casebooks and Workbooks provide active participation exercises as an integral part of Essentials of Global Health, Biostatistics, and Public Health 101.
✓ Accompanying Readers will broaden and deepen students’ understanding for Essentials of Health Policy and Law, Health Behavior, and Infectious Disease Epidemiology.
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About the Series Editor

Richard K. Riegelman, MD, MPH, PhD is Professor of Epidemiology-Biostatistics, Medicine, and Health Policy, and Founding Dean of The George Washington University School of Public Health and Health Services in Washington, DC. He has taken a lead role in developing the Educated Citizen and Public Health initiative which has brought together arts and sciences and public health education associations to implement the Institute of Medicine of the National Academies recommendation that “…all undergraduates should have access to education in public health.” Dr. Riegelman also led the development of George Washington's undergraduate major and minor and currently teaches “Public Health 101” and “Epidemiology 101” to undergraduates.

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Public Health 101
Healthy People—Healthy Populations

Richard Riegelman, MD, MPH, PhD
Professor of Epidemiology-Biostatistics, Medicine, and Health Policy, and Founding Dean, The George Washington University School of Public Health and Health Services

Public Health 101 provides a big-picture perspective on the determinants of health and disease and the tools available to protect and promote health. It examines the full range of “options for intervention” including use of the healthcare system, the public health system, and society-wide interventions such as laws and taxation.

Students will learn how public health affects them in their everyday lives. Using case studies, vignettes, and extensive examples, they will learn and apply frameworks for thinking about the issues of public health. They will gain a deeper understanding about the health news they hear, the Web sites they visit, and the research they read.

Key Features:
• Fully implements the curriculum framework, learning objectives, and enduring understandings recommended by the Association of American Colleges and Universities (AAC&U) and the Association for Prevention Teaching and Research (APTR) faculty development program.
• Includes frameworks for thinking, checklists of questions-to-ask, step-by-step examples, and plenty of case studies to provide students with hands-on practice.
• Offers case studies, vignettes, and extensive illustrations to reinforce the materials and allow a wide choice of interactive exercises for faculty to draw on for classroom discussions, homework, and examinations.
• A student Web site including interactive practice exams, flash cards, an interactive glossary as well as periodic updates will enhance student learning.

Companion Web Site Resources:
For Instructors:
• Instructor’s Manual
• PowerPoints
• Test Bank
For Students:
• Interactive Glossary
• Flashcards
• Chapter Quizzes

Table of Contents:

Section I: Principles of Population Health
Chapter 1: Public Health—The Population Health Approach
Chapter 2: Evidence-Based Public Health
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Section II: Tools of Population Health
Chapter 3: Health Informatics and Health Communications
Chapter 4: Social and Behavioral Sciences
Chapter 5: Health Policy, Law, and Ethics
Case Studies - Section II

Section III: Disease, Disability, and Death
Chapter 6: Non-Communicable Diseases
Chapter 7: Communicable Diseases
Chapter 8: Environmental Health and Safety
Case Studies - Section III

Section IV: Health Professionals, Healthcare Institutions, and Healthcare Systems
Chapter 9: Health Professionals
Chapter 10: Healthcare Institutions
Chapter 11: Healthcare Systems
Case Studies - Section IV

Section V: Public Health Institutions and Systems
Chapter 12: Public Health Functions and Institutions
Chapter 13: The Future of Public Health
Case Studies - Section V
Epidemiology 101

Robert H. Friis, PhD
Professor and Chair, Department of Health Science, California State University, Long Beach

Designed to fulfill the four essential learning outcomes of Liberal Education and America’s Promise (LEAP)—a campaign of the Association of American Colleges and Universities—Epidemiology 101 is the ideal text for an undergraduate, general education course in epidemiology.

Using a clear, cohesive writing style, Epidemiology 101 covers the basics of infectious disease epidemiology, environmental epidemiology, molecular epidemiology, and psychosocial/behavioral epidemiology. Numerous tables and charts throughout the text capture the reader’s interest and enhance learning.

The author uses many examples that are keyed to issues that affect contemporary youth, such as youth violence, substance abuse, and the obesity epidemic, which make the text accessible and interesting to a wide range of young readers in the liberal arts, sciences, and other health-related disciplines.

Key Features:
- Follows the basic Epidemiology 101 curriculum framework as recommended by the 2006 Consensus Conference on Undergraduate Public Health Education.
- Offers current, tangible examples from the field such as recent disease outbreaks, bioterrorism, and uses of epidemiology for policy development.
- Requires no prior familiarity with health-related fields or statistics.
- End-of-chapter exercises provide access to a laboratory component for college science courses that require a laboratory.

Companion Web Site Resources:
- For Instructors:
  - Instructor’s Manual
  - PowerPoints
  - Test Bank
- For Students:
  - Interactive Glossary
  - Flashcards

Table of Contents:
- Chapter 1: History, Philosophy, and Uses of Epidemiology
- Chapter 2: Epidemiologic Measurements Used to Describe Disease Occurrence
- Chapter 3: Data and Additional Measures of Disease Occurrence
- Chapter 4: Descriptive Epidemiology: Patterns of Disease—Person, Place, Time
- Chapter 5: Association and Causality
- Chapter 6: Analytic Epidemiology: Types of Study Designs
- Chapter 7: Epidemiology and the Policy Arena
- Chapter 8: Infectious Diseases and Outbreak Investigation
- Chapter 9: Social and Behavioral Epidemiology
- Chapter 10: Special Epidemiologic Applications Glossary
Essentials of Global Health

Richard Skolnik, MPA
Director of International Programs, The Population Reference Bureau, Washington, DC

Essentials of Global Health is a clear, concise, and user-friendly introduction to the most critical issues in global health. It illustrates key themes with an extensive set of case studies, examples, and the latest evidence. While the book offers a global perspective, particular attention is given to the health-development link, to developing countries, and to the health needs of poor and disadvantaged people.

Perfect for the AAC&U Recommended Global Health 101 Curriculum.

Topics Covered:

- The principles of global health; health determinants, measurements, and trends; and health, education, poverty, and the economy.
- Cross-cutting global health themes including human rights, ethics, and global health; an introduction to health systems; and culture and health.
- The environment and health; nutrition and health; women’s health; child health; infectious diseases; non-communicable diseases; and unintentional injuries.
- Conflicts, natural disasters, and other emergencies; cooperating to improve global health; and, science technology and the public’s health.

Companion Web Site Resources:

For Instructors:
- Instructor’s Manual
- PowerPoints
- Test Bank

Companion Text:

Case Studies in Global Health

Millions Saved

Ruth Levine, PhD
Senior Fellow and Director of Programs, Center for Global Development

This series of 20 case studies illustrates real-life, proven, large-scale success stories in global public health. Drawing from a rich evidence base, the accessible case write-ups highlight experiences in scale-up of health technologies, strengthening of health systems, and the use of health education and policy change to achieve impressive reductions in disease and disability, even in the poorest countries. An overview chapter draws attention to factors that contributed to the successes. Discussion questions help to bring out the main points and provide a point of departure for independent student research.


Essentials of Public Health

Bernard J. Turnock, MD, MPH
Clinical Professor of Community Health Sciences, School of Public Health, University of Illinois–Chicago

Ideal for senior-level undergraduates, or beginning graduates in public health, health science, or nursing, Essentials of Public Health focuses on the inner workings of health departments and the role of public health professionals.

This comprehensive text is an excellent introduction to the field and combines the best elements of Dr. Turnock’s two other books, Public Health: What It Is and How It Works and Public Health: Career Choices That Make a Difference.

The first set of chapters introduces readers to the field of public health and how it works. It defines and describes the public health system, provides concepts and tools for measuring health in populations, characterizes the relationship of the public health system with medical care and other elements of the overall health system, and identifies government’s unique contributions through federal, state, and local public health agencies.

The second set of chapters focuses on public health careers within the context of the overall public health workforce. Basic information on the size and composition of the public health workforce is followed by chapters that address careers and jobs in public health administration, epidemiology, public health nursing, health education, and other professional and program titles and positions.

With its clear, reader-friendly language and helpful learning tools, such as chapter exercises and discussion questions, this is the ideal text to prepare your students for a career in public health.

Companion Web Site Resources:

For Instructors:
- Teaching Modules
- Course Syllabus
- PowerPoints
- Additional Case Studies
- Course Resources

For Students:
- Practice Quizzes

Table of Contents:

Chapter 1: What Is Public Health?
Chapter 2: Understanding and Measuring Health
Chapter 3: Public Health and the Health System
Chapter 4: Law, Government, and Public Health
Chapter 5: Public Health Emergency Preparedness and Response
Chapter 6: The Public Health Workforce
Chapter 7: Public Health Administration
Chapter 8: Environmental and Occupational Health
Chapter 9: Public Health Nursing
Chapter 10: Epidemiology and Disease Control
Chapter 11: Public Health Education and Information
Chapter 12: Other Public Health Professional Occupations
Chapter 13: Public Health Program Occupations
Chapter 14: Public Health Practice: Future Challenges
The effectiveness of public health interventions, at an individual or community level, whether biological, psychosocial, or behavioral in nature, is directly influenced by the depth of understanding of the origins, natural history, and clinical manifestations of disease.

*Essentials of Public Health Biology* will give your students a clear understanding of the pathogenesis of various disease conditions and how to identify critical points at which such pathogenesis could either be prevented or interrupted. Infectious, nutritional, metabolic, genetic, and environmental risks and the impact of such risks on various organ systems are thoroughly examined.

**Key Features:**

- Gives students a clear understanding of the biological basis of disease put in the context of public health.
- Each chapter begins with a “Startling Fact” to put concepts in the perspective of the real world.
- Teaches key skills in public health to prepare the student for further investigation of critical topics.

“This book is very appropriate not only for the students who lack a background in the biomedical sciences, but also for those who have such a background because it provides the latter with the public health context of the many topics addressed.”

— James D. Yager, PhD, Edyth H. Schoenrich Professor in Preventive Medicine, Johns Hopkins Bloomberg School of Public Health

**Companion Web Site Resources:**

For Instructors:
- Ancillaries Overview
- Instructor’s Manual
- Test Bank
- PowerPoints
- Answer Key
- Assignments
- Additional Resources

For Students:
- Interactive Glossary
- Flashcards
- Core Competencies in Public Health Biology

**Table of Contents:**

PART I: Concepts of Health and Disease in Public Health
PART II: Using Public Health to Address Behavioral Change
PART III: Concepts of Pathophysiology
PART IV: The Public Health Burden of Infectious Disease
PART V: The Public Health Burden of Chronic Disease
PART VI: Skills and Tools of Public Health
The writing style is quite sneaky—breezy and conversational enough that before you know it, you’ve finished reading an entire theory section. And as a bonus, you actually understand it! It is quite a skill to be able to break down ‘lofty theory’ into something my students can see working in their own lives. I appreciate the accessibility of the text.”

—Nicole Aydt Klein, PhD, CHES, Assistant Professor, Department of Kinesiology and Health Education, Southern Illinois University–Edwardsville

Key Features:

• Introduces students to the relationship between behavior and a selection of major health issues.
• Provides an introductory background to the kinds of social and behavioral theories that guide our understanding of health-related behavior and form the background for health promotion and prevention efforts.
• Explores some of the ways in which these theories and approaches are used in applied health promotion efforts.

“Essential Readings in Health Behavior
Theory and Practice
Mark Edberg, PhD

This collection of readings and case-related articles engages the student in further exploration of the themes covered in the main text.
Essentials of Infectious Disease Epidemiology

Manya Magnus, PhD, MPH
School of Public Health and Health Services,
The George Washington University

Essentials of Infectious Disease Epidemiology explores the methodological applications used in infectious disease epidemiology. It makes critical concepts intuitive and readily understandable and offers an introduction to the material that can be used as a foundation for more advanced epidemiology or infectious disease texts, or concurrently.

Key Features:

• Simplifies complex methodological ideas in easy-to-read, engaging narrative with minimum jargon.
• Illustrates the application of the methods using examples from real-life research and infectious disease study.
• Includes a section of evaluation studies in infectious disease epidemiology.
• Provides readers with learning aids such as objectives, discussion questions, boxes, and graphics.

“For Instructors:

• Sample Syllabus
• Instructor’s Manual
• PowerPoints
• Test Bank
• PowerPoints for Readings text

Companion Text:

Essential Readings in Infectious Disease Epidemiology

Manya Magnus, PhD, MPH

This collection of readings and practice exercises is designed to complement the methods training presented in the main text, Essentials of Infectious Disease Epidemiology. It may also be used in tandem with any introductory or intermediate epidemiology text to give the student critical skills in reading and interpretation.
Essentials of Biostatistics in Public Health

Lisa M. Sullivan, PhD
Professor and Chair, Department of Biostatistics, Boston University School of Public Health

Drawing on the author's remarkable clinical experiences with the Framingham Heart Study, Essentials of Biostatistics in Public Health provides a fundamental and engaging background for students learning to apply and appropriately interpret biostatistical applications in the field of public health.

With a presentation style that is clear and straightforward, the text uses examples that are real, relevant, and manageable in size so that students can focus on applications rather than become overwhelmed by computations.

Key Features:

- Perfect for students with very little mathematical background.
- Focuses on important and timely public health problems.
- Features data from the Framingham Heart Study—the most widely recognized study of risk factors for cardiovascular disease.
- For each topic, methodology—including assumptions, statistical formulas, and appropriate interpretations of results—are thoroughly discussed.
- Includes sections on study design and sample size computation.
- Includes an introduction to multivariable statistical methods that is accessible to first-year students.
- Includes statistical computing using Excel or manual calculations.

This text comes bundled with a workbook: Statistical Computing Using Excel.

Companion Web Site Resources:

For Instructors:
- Sample Syllabus
- Solutions Manual
- PowerPoints
- Test Bank

Table of Contents:

Chapter 1: Introduction
Chapter 2: Study Designs
Chapter 3: Quantifying the Extent of Disease
Chapter 4: Summarizing Data Collected in the Sample
Chapter 5: The Role of Probability
Chapter 6: Confidence Interval Estimates
Chapter 7: Hypothesis Testing Procedures
Chapter 8: Multivariable Methods
Chapter 9: Power and Sample Size Determination
Essentials of Environmental Health

Robert H. Friis, PhD
Professor and Chair, Department of Health Science, California State University–Long Beach

Essentials of Environmental Health is a clear and comprehensive study of the major topics of environmental health, including:

- Background of the field and “tools of the trade” (environmental epidemiology, environmental toxicology, and environmental policy and regulation).
- Environmental diseases (microbial agents, ionizing and non-ionizing radiation).
- Applications and domains of environmental health (water and air quality, food safety, waste disposal, and occupational health).

Using a straightforward, non-technical approach, the author has included many examples and illustrations of environmental health issues. Perfect for the beginning student, as well as the experienced health professional, each chapter concludes with study questions and exercises to engage the reader in further study.

“Robert Friis possesses an impressive ability to clearly present the complex interactions and relationships pertinent to environmental health. The author’s service in public health epidemiology and his experience in the classroom shine in this book. This book is a valuable cornerstone for the emerging Essentials of Public Health series.”

— J. Thomas Pierce, MBBS, PhD, Navy Environmental Health Center

For Doody’s Book Review Service (Doody’s Rating: 4 Stars)

“Friis is by far the best [environmental health text] we’ve seen.”

— Jonathan M. Links, PhD, Professor, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health

“Many textbooks have been published on environmental health. I have reviewed a number of them. But Friis’ work is by all reasonable standards a superior product. All students of public health should read it. It is an excellent resource for teaching all students in the health sciences, graduate and undergraduate, as well as medical students, future physicians. Friis deserves commendations of the highest order for writing a book with immediate relevance to public health and medicine.”

— Bailus Walker, Jr., PhD, MPH, Department of Community Health and Family Practice, Howard University College of Medicine

Companion Web Site Resources:

For Instructors:
- Model Syllabus
- Lecture Outline
- PowerPoints
- Test Bank

For Students:
- Chapter Outlines
- Flashcards
- Weblinks
Essentials of Health Policy and Law

Joel B. Teitelbaum, JD, LLM
Sara E. Wilensky, JD, MPP
Both of the Department of Health Policy, School of Public Health and Health Services, The George Washington University

Given the prominent role played by policy and law in the health of all Americans, the aim of this book is to help readers understand the broad context of health policy and law, the essential policy and legal issues impacting and flowing out of the healthcare and public health systems, and the way health policies and laws are formulated. Concise and straightforward, this book will stimulate discussion, reflection, research, and analysis of the seminal issues in U.S. health policy and law.

Key Features:

• Chapters are structured to allow for the teaching of policy and law in tandem or separately.
• Includes a chapter on analytic skills for public health students, including how to write a policy analysis.
• Each chapter includes discussion questions to engage student reflection.

"This book is well written and easy to read and use to understand a difficult subject. This book is a broad brush of health policy and laws that impact policy creation or implementation. ...The final section that leads students through the process of policy analysis is exceptionally well done."

—Carole A. Kenner, RNC, DNS, FAAN, University of Oklahoma College of Nursing
(for Doody's Book Review Service, November 2008)

Companion Text:

Essential Readings in Health Policy and Law

Joel B. Teitelbaum, JD, LLM
Sara E. Wilensky, JD, MPP

Featuring the thought-provoking perspectives of individual authors, policymakers, and judges that span the spectrum of political and social thought, this collection of readings will stimulate classroom discussion, reflection, and analysis of the issues covered in the main textbook, Essentials of Health Policy and Law.

Essentials of Health Economics

Diane M. Dewar, PhD
Associate Professor, Department of Economics and Department of Health Policy, Management and Behavior, School of Public Health, University at Albany, SUNY

Essentials of Health Economics takes a timely approach to the study of the public healthcare system through the lens of economics. With the use of numerous examples and profiles related to the field, students and faculty will be able to grasp the importance and relevance of health economics, as well as how it relates to more general analysis of health policy issues. This book has wide appeal among students of public health and health administration, since it conveys the essence of the economic issues at hand while avoiding complicated methodological issues that would interest only students of economics. It is written with the non-specialist in mind, while focusing on how to do descriptive, explanatory, and evaluative economics in a systematic way.

Foundations of Public Health Management and Leadership

Robert E Burke, PhD
Chair, Department of Health Services Management and Leadership, School of Public Health and Health Services, The George Washington University
Leonard H. Friedman, PhD, MPH
Professor and Director, Department of Health Services Management and Leadership, The George Washington University

Driven by recent events and new trends, public health training increasingly requires new and more advanced information—leadership and management skills drawn from business, industry, education, and government. This text offers basic foundations for students entering the field of public health management with a specific focus on developing knowledge and skills in the cross-cutting competency domains identified by the ASPH.

Foundations of Public Health Management and Leadership covers: An introduction and history of the field of public health management; The evolution of key leadership and management theories; The changing role of public health management professionals and key characteristics of successful public health leaders; Key issues in the organization, financing, and delivery of healthcare services; Fundamental concepts about the classic functions of management including economics, finance, marketing, strategy, administration, human resources, and community relations; and Modern approaches to leadership development, selection, retention, and succession planning.
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