Science, Allied Health & Emergency Services

2009

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AGRICULTURE & FORESTRY

Forestry

Forest Resources

International Edition

GIS APPLICATIONS IN FORESTRY AND NATURAL RESOURCES
By Pete Bettinger, Oregon State University
2004 / 256 pages
http://www.mhhe.com/earthsci

CONTENTS
1 GIS Data Structures
2 GIS Databases
3 Maps, Tables, Spatial Analyses
4 Forest Thinning Opportunities
5 Delineating Variable Width Riparian Areas
6 Buffer Owl Nest Sites
7 Forest Fertilization Plan
8 Forest Pruning Plan
9 Recreation Opportunity Spectrum
10 Land Classification
11 Integration of GIS and Forest Inventories
12 Soil Loss Potential
13 Tactical Issues with Forest Harvest Schedule

AGRICULTURE

Agricultural Business

International Edition

FARM MANAGEMENT
6th Edition
By Ronald Kay, Texas A&M University
2008 (April 2007) / 480 pages
www.mhhe.com/kay6

This text was developed for the first course in Farm Management, typically taken by a junior/senior level student. It was designed to introduce students to the key concepts on how to effectively manage a farm business. The sixth edition provides students with the basic information needed to measure management performance, financial progress, and the financial condition of the farm business.

CONTENTS
1 Management
1 Farm Management in the Twenty-First Century
2 Management
2 Measuring Management Performance
3 Acquiring and Organizing Management Information
4 Depreciation and Asset Valuation
5 The Balance Sheet and Its Analysis
6 The Income Statement and Its Analysis
3 Developing Basic Management Skills
7 Economic Principles--Choosing Production Levels
8 Economic Principles--Choosing Input and Output Combinations
9 Cost Concepts in Economics
10 Enterprise Budgeting
11 Partial Budgeting
12 Whole-Farm Planning
13 Cash Flow Budgeting
4 Improving Management Skills
14 Forms of Farm Business Organization
15 Managing Risk and Uncertainty
16 Managing Income Taxes
17 Investment Analysis
18 Farm Business Analysis
5 Acquiring Resources for Management
19 Capital and the Use of Credit
20 Land--Control and Use
21 Human Resource Management
22 Machinery Management
Appendix

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McGraw-Hill is interested in reviewing textbook proposal for publication. Please contact your local McGraw-Hill office or email to asiapub@mcgraw-hill.com

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Website: www.mheducation.asia
This text was developed for the first course in Farm Management, typically taken by a junior/senior level student. It was designed to introduce students to the key concepts on how to effectively manage a farm business. The sixth edition provides students with the basic information needed to measure management performance, financial progress, and the financial condition of the farm business.

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17 Investment Analysis
18 Farm Business Analysis
5 Acquiring Resources for Management
19 Capital and the Use of Credit
20 Land--Control and Use
21 Human Resource Management
22 Machinery Management
Appendix
Animal Science

International Edition

ANIMAL SCIENCES
The Biology, Care, and Production of Domestic Animals, 4th Edition
By John R. Campbell, Oklahoma State U—Oklahoma City, M. Douglas Kenealy, Iowa State University and Karen L. Campbell, University of Illinois-Urbana-Champaign

2003 / 528 pages

http://www.mhhe.com/campbell

CONTENTS
1 Animal Agriculture
2 Breeds and Life Cycles of Livestock and Poultry
3 Animal Products
4 Companion Animals
5 Horses
6 Aquaculture
7 State of Being of Domestic Animals
8 Fundamental Principles of Genetics
9 Principles of Selecting and Mating Farm Animals
10 Anatomy and Physiology of Farm Animals
11 The Application of Endocrinology to Selected Animals and Humans
12 The Physiology of Growth and Senescence
13 Anatomy and Physiology of Reproduction and Related Technologies in Farm Mammals
14 Artificial Insemination
15 Physiology of Lactation
16 Physiology of Egg Laying
17 Ecology and Environmental Physiology
18 Principles of Nutrition: Plant and Animal Composition
19 The Physiology of Digestion in Nutrition
20 The Nutritional Application of Vitamins to Human and Animal Health
21 The Nutritional Contributions of Minerals to Humans and Animals
22 Animal Disease and the Health of Humans
23 Selected Insects and Parasites of Significance to Humans and Animals
24 Ethology and Animal Behavior
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Appendix C: Tables of Weights and Measures
Appendix D: Agricultural Colleges and Experiment Stations in the United States and Its Territories
Appendix E: Alphabetical List of Elements and Symbols

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ANATOMY & PHYSIOLOGY

One-Semester Anatomy & Physiology - Textbooks

NEW

ANATOMY & PHYSIOLOGY WITH INTEGRATED STUDY GUIDE
4th Edition

By Stanley E Gunstream, Pasadena City College

2010 (January 2009)

Designed for an introductory, one-semester course, the scope, organization, writing style, depth of presentation, and pedagogical aspects of this text have been tailored to meet the needs of students preparing for a career in allied health. This text does not assume any prior science knowledge on the part of the student and effectively presents students with the fundamentals of anatomy and physiology. It's the only one-semester text available with a built-in study guide/workbook.

NEW TO THIS EDITION

- Portions of all chapters have been rewritten to update or clarify the subject matter, and new art has been added, or existing art modified, to correspond with the improved text.
- End-of-chapter questions and the Study Guide have been modified to correspond to these changes. These improvements will enhance student understanding of basic human anatomy and physiology. Significant areas of updating and clarification include the following:
  - Chapter 1: the role of negative feedback in regulating homeostasis.
  - Chapter 12: the regulation of cardiac output and the exchange of materials between blood in capillaries and tissue cells.
  - Chapter 13: the mechanisms of immunity.
  - Chapter 15: the microscopic structure of the liver and liver function.
  - Chapter 16: the regulation of glomerular filtration rate and the movement of materials between the renal tubule and the peritubular capillary.
  - Chapter 17: the hormonal regulation of reproduction.

CONTENTS

Part 1 Organization of the Body
  1 Introduction to the Human Body
  2 Chemical Aspects of Life
  3 Cell
  4 Tissues and Membranes

Part 2 Covering, Support, and Movement of the Body
  5 Integumentary System
  6 Skeletal System
  7 Muscular System

Part 3 Integration and Control
  8 Nervous System
  9 Senses
  10 Endocrine System

Part 4 Maintenance of the Body
  11 Blood
  12 Heart and Blood Vessels
  13 Lymphatic System and Defenses Against Disease
  14 Respiratory System
  15 Digestive System
  16 Urinary System

Part 5 Reproduction
  17 Reproductive Systems
  18 Pregnancy, Prenatal Development, and Genetics

Part 6 Study Guides

Appendix A Keys to Medical Terminology
Appendix B Answers to Check Your Understanding Questions

International Edition

SEELEY’S ESSENTIALS OF ANATOMY AND PHYSIOLOGY
7th Edition

By Cinnamon VanPutte, Southwestern Illinois College, Jennifer Regan, Jones County Jr College and Andrew F Russo, University of Iowa-Iowa City

2010 (February 2009) / 704 pages
ISBN: 978-0-07-018182-3 [IE]

Designed for the one-semester course, Seeley’s Essentials of Anatomy and Physiology is written to allow instructors the ability to accomplish one overall goal: to teach the basics of A&P while fostering the skill of problem solving. Through learning how to solve problems and think critically, students learn A&P based on two themes: the relationship between structure and function, and homeostasis.

NEW TO THIS EDITION

- Improved Art: The effectiveness of the art has been improved in several ways in this edition with the overall goal of clarifying the teaching point of each revised illustration.
- Homeostasis Figures have been markedly improved by adding visual representations of key anatomical references and simplifying the arrows and text. A "Start Here" icon and color-coded arrows make it easier to follow the events occurring when a variable increases or decreases. These simplified flow charts succinctly map out key homeostatic events, giving students a quick and effective summary of the mechanisms described in the text.
- The Process Figures have been fine-tuned by adding numbered circles to the explanations within the art, allowing students to make easier correlations to each important step within the illustration. Process Figures provide well-organized, self-contained visual explanations of how physiological mechanisms work. They help students learn physiological processes by combining illustrations with parallel descriptions of the major features of each process.
- Numerous changes to improve consistency and clarification were also made to art pieces.
- “Diseases and Disorders” Tables – Short, beneficial descriptions of various system disorders can now be found in an easy-to-use table placed conveniently in appropriate chapters. Clinical material like these tables is a hallmark of this text, and combined with the “Case in Point” boxes, the “Clinical Impact” readings, the “Systems Pathology” material, and the unique “Predict” questions, helps students bridge the two worlds of academia and their future allied health careers.
Refined and Updated Textual Copy: The authors have used their own, and read other’s, research and papers to stay on top of new discoveries relevant to the field of anatomy and physiology. They’ve also used reviews from instructors who teach the course to keep in touch with the various challenges facing professors today. Finally, a developmental copyeditor was brought into the early stages of the revision to ensure the quality, accuracy, and consistency of the text. Some examples of this attention to detail follow:

- Many explanations have been rewritten or expanded to make topics easier for students to understand.
- By using examples students can relate to, many explanations have been made clearer.
- Terminology has been made more consistent throughout both the text and the illustrations.
- New information applicable to the discipline has been researched and included where appropriate.
- Factual data has been checked and updated, or corrected, if necessary.

CONTENTS

1 Human Organism
2 Chemical Basis of Life
3 Cell Structures and Their Functions
4 Tissues, Glands, and Membranes
5 Integumentary System
6 Skeletal System: Bones and Joints
7 Muscular System
8 Nervous System
9 Senses
10 Endocrine System
11 Blood
12 Heart
13 Blood Vessels and Circulation
14 Lymphatic System and Immunity
15 Respiratory System
16 Digestive System
17 Nutrition, Metabolism, and Body Temperature Regulation
18 Urinary System and Fluid Balance
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20 Development, Heredity, and Aging
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15 Digestion and Nutrition
16 Respiratory System
17 Urinary System
18 Water, Electrolyte, and Acid-Base Balance
Unit 6 The Human Life Cycle
19 Reproductive Systems
20 Pregnancy, Growth, and Development

International Edition

MADER’S UNDERSTANDING HUMAN ANATOMY & PHYSIOLOGY
6th Edition
By Susannah Longenbaker, Columbus State Community College
2008 (January 2007)
ISBN: 978-0-07-328886-4
ISBN: 978-0-07-110208-7 [IE]
http://aris.mhhe.com

Renowned for her effective learning systems, respected author Sylvia Mader has helped thousands of entry-level students understand and enjoy the principles of human anatomy and physiology. Now, Susannah Longenbaker is building on Dr. Mader’s format and engaging writing style while adding her own personal touch to this successful title. The writing is still clear, direct and user-friendly, but is now enriched with new clinical information, terminology and classroom-tested features such as “Focus on Forensics” readings and in-text “Content Check-Up” questions. Drawing on over twenty years of teaching experience, Sue Longenbaker writes for the next generation of students that will learn anatomy and physiology from this classic textbook.

CONTENTS
Part I Human Organization
1 Organization of the Body
2 Chemistry of Life
3 Cell Structure and Function
4 Body Tissues and Membranes
Part II Support and Movement
5 The Integumentary System
6 The Skeletal System
7 The Muscular System
Part III Integration and Coordination
8 The Nervous System
9 The Sensory System
10 The Endocrine System
Part IV Maintenance of the Body
11 Blood
12 The Circulatory System
13 The Lymphatic System and Body Defense
14 The Respiratory System
15 The Digestive System
16 The Urinary System and Excretion
Part V Reproduction and Development
17 The Reproductive System
18 Human Development and Birth
19 Human Genetics
Appendix A Reference Figures: The Human Organism
Appendix B Understanding Medical Terminology

One-Semester Anatomy & Physiology - Lab

NEW

ANATOMY & PHYSIOLOGY LABORATORY TEXTBOOK Essentials Version, 5th Edition
By Stanley E Gunstream, Pasadena City College
2010 (February 2009)
ISBN: 978-0-07-728376-6

Gunstream’s manual presents the fundamentals of human anatomy and physiology in an easy-to-read manner appropriate for allied health students. Designed especially for a one-semester course, the Essentials Version features a concise writing style, 37 self-directing exercises, full-color photomicrographs in the Histology Atlas, and numerous illustrations in each exercise.

NEW TO THIS EDITION
- The art program has been substantially improved with new illustrations and, in addition, many existing figures have been upgraded.
- The text and laboratory reports have been rewritten to correlate with the figure changes. These improvements will enhance clarity and student understanding.
- Instructors have a choice of two popular computer-based laboratory systems to investigate muscle physiology. Exercise 20: The Physiology of Muscle Contraction Using the BIOPAC Student Lab System has been designed for those using the BIOPAC system. Exercise 21: The Physiology of Muscle Contraction Using the Intelitool Physiogrip has been updated for those using the Intelitool system. Both of these exercises guide the student through the computer protocols so they may focus on the physiology of muscle contraction.
- Exercise 37: The Endocrine Glands has been reorganized with a reduction in the histology figures. Expanded coverage now includes thymosin and T-cell maturation, calcitonin and parathyroid hormone maintaining calcium balance, and adrenal sex steroids.
- In Exercise 28: The Heart, coverage now includes coronary arteries and veins so students will have a better understanding of heart circulation as it relates to clinical situations.

CONTENTS
Part I Fundamentals
1 Introduction to Human Anatomy
2 Body Organization
3 The Microscope
4 Cell Anatomy
ANATOMY & PHYSIOLOGY

5 Mitotic Cell Division
6 Diffusion and Osmosis
7 Epithelial and Connective Tissues
8 The Integument

Part 2 The Skeletal System
9 The Skeletal Plan
10 The Skull
11 The Vertebral Column and Thorax
12 The Appendicular Skeleton
13 Articulations

Part 3 The Muscle System
14 Muscle Organization and Body Movements
15 Head and Trunk Muscles
16 Muscles of the Upper Limb
17 Muscles of the Lower Limb
18 Muscle and Nerve Tissues
19 The Nature of Muscle Contraction
20 The Physiology of Muscle Contraction: Using the BIOPAC Student Lab System
21 The Physiology of Muscle Contraction: Using the Intelligrip (TM)

Part 4 The Nervous System
22 The Spinal Cord and Reflex Arcs
23 Brain Anatomy: External
24 Brain Anatomy: Internal
25 The Eye
26 The Ear

Part 5 The Circulatory System
27 Blood Tests
28 The Heart
29 Blood Vessels, Fetal Circulation, and Lymphatic System
30 Cardiovascular Phenomena

Part 6 The Respiratory System
31 The Respiratory Organs
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35 The Urinary Organs
36 Urine and Uralysis

Part 9 The Endocrine and Reproductive Systems
37 The Endocrine Glands
38 The Reproductive Organs Histology Atlas Laboratory Reports Appendices

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NEW

LABORATORY MANUAL

ESSENTIALS OF ANATOMY & PHYSIOLOGY

7th Edition

By Kevin T Patton, Saint Charles Community College

2010 (February 2009)

Kevin Patton divides the lab activities typically covered in A&P lab into 42 subunits, allowing instructors the flexibility to choose the units and sequence that integrates with lecture material. Basic content is introduced first, and gradually more complex activities are developed. Features include procedure check lists, coloring exercises, boxed hints, safety alerts, separate lab reports, and a full-color histology mini-reference.

FEATURES

- Written in an easy-to-understand step-by-step format that allows students to focus on lab activities, not on reading.
- Includes clinical examples and other practical applications that help improve critical thinking skills.
- Emphasizes a multi-sensory approach to learning.
- Flexible activities can be adapted for different types and availability of equipment and specimens.
- The Instructor’s Manual (available online) includes alternate activities and demonstrations, individual and global supply lists, supply sources, specific teaching hints, answers to questions, and more.

CONTENTS

Welcome to Anatomy and Physiology Laboratory
Histology Mini-reference
The Basics
1 The Microscope
2 Cell Anatomy
3 Transport through Cell Membranes
4 The Cell’s Life Cycle
5 Epithelial Tissue
6 Connective Tissue
7 Muscle and Nerve Tissue
8 Organization of the Body Support and Movement
9 The Skin
10 Overview of the Skeleton
11 The Skull
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13 The Appendicular Skeleton
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18 Nerves and Reflexes
19 The Spinal Cord and Spinal Nerves
20 The Brain and Cranial Nerves
21 The Eye and Vision
22 The Ear, Hearing, and Equilibrium
23 Endocrine Glands
24 Hormones Regulation and Maintenance
25 Blood
26 Structure of the Heart
27 Electrical Activity of the Heart
NEW

WORKBOOK TO ACCOMPANY ANATOMY & PHYSIOLOGY REVEALED VERSION 2 CD

By Robert Broyles, Butler County Community College

2009 (January 2008) / 704 pages

The Workbook to Accompany Anatomy and Physiology Revealed, Version 2 by Robert Broyles is a workbook/study guide designed to help students get the most they can out of the Anatomy and Physiology Revealed (APR), and out of their anatomy and physiology course. The Table of Contents closely follows both the new DVD set and the online adaptation, and is organized along the lines of a typical Anatomy and Physiology course. The individual exercises include art from APR and also have review questions, tables, coloring exercises, terminology quiz questions, and reminders on key content.

NEW TO THIS EDITION

- A new chapter, Histology, has been added to this workbook, corresponding to the new content on histology in APR, Version 2.
- A new chapter, The Integumentary System, has been included in the workbook, correlating to the new section on the same in APR, Version 2.
- New content on articulations has been added to the chapter on the Skeletal System, reflecting similar updates to APR, Version 2.
- New content on insertions and origins has been included in The Muscular System chapter, based on new additions to APR, Version 2.
- More coloring exercises on structure are included in the workbook.
- All changes to the interface of version two of APR have consequently been noted and updated via directions to the student in the workbook.

CONTENTS

Chapter 1: Introduction: Becoming Familiar with Anatomy and Physiology Revealed
Chapter 2: Histology (Detailed information to come)
Chapter 3: The Integumentary System (Detailed information to come)
Chapter 4: The Skeletal System with Articulations (Detailed information on articulations to come)
Chapter 5: The Muscular System
Chapter 6: The Nervous System
Chapter 7: The Cardiovascular System
Chapter 8: The Lymphatic System
Chapter 9: The Respiratory System
Chapter 10: The Digestive System
Chapter 11: The Urinary System
Chapter 12: The Reproductive System
Chapter 13: The Endocrine System

LABORATORY MANUAL TO ACCOMPANY HOLE'S ESSENTIALS OF HUMAN ANATOMY & PHYSIOLOGY 10th Edition

By Terry R. Martin, Kishwaukee College

2009 (February 2008) / 384 pages
ISBN: 978-0-07-296567-4

This full-color manual is designed for students with minimal backgrounds in science who are pursuing careers in allied health fields. Designed to support the tenth edition of Hole’s Essentials of Human A&P by Shier, Butler, and Lewis, this manual contains 49 laboratory exercises and reports, which are integrated closely to the textbook. The exercises are planned to illustrate and review the anatomical and physiological facts and principles presented in the text and to help students investigate some of these ideas in greater detail.

NEW TO THIS EDITION

- To meet the request of many professors, a NEW Genetics lab has been added.

CONTENTS

Fundamentals of Human Anatomy and Physiology
1 Scientific Method and Measurements
2 Body Organization and Terminology
3 Chemistry of Life
4 Care and Use of the Microscope
Cells
5 Cell Structure and Function
6 Movements Through Cell Membranes
7 Cell Cycle
Tissues
8 Epithelial Tissues
9 Connective Tissues
10 Muscle and Nervous Tissues
Integumentary System
11 Integumentary System
Skeletal System
12 Bone Structure
13 Organization of the Skeleton
14 Skull
15 Vertebral Column and Thoracic Cage
16 Pectoral Girdle and Upper Limb
17 Pelvic Girdle and Lower Limb
18 Joint Structure and Movements
Muscular System
19 Skeletal Muscle Structure
20 Muscles of the Face, Head, and Neck
21 Muscles of the Chest, Shoulder, and Upper Limb
22 Muscles of the Abdominal Wall and Pelvic Outlet
23 Muscles of the Hip and Lower Limb
24 Surface Anatomy
Nervous System
25 Nervous Tissue and Nerves
26 Spinal Cord and Meninges
27 Reflex Arc and Reflexes
28 Brain and Cranial Nerves
29 Dissection of the Sheep Brain
Special Senses
30 Ear and Hearing
31 Eye Structure
Memorable stories must be effective in multiple ways. The story must paint a strong visual picture. The story must weave in tools to make the reader remember important events and understand their impact. Ken Saladin weaves graceful descriptions of human anatomy and physiology processes together with carefully selected clinical applications and fascinating stories from the history of medicine and evolutionary medicine to create a multi-layered story about the human body. A consistent set of chapter learning tools helps students identify and retain key concepts while the stunning visual program provides a realistic view of body structures and processes. The fifth edition is further improved by a complete integration of the text with extensive digital teaching and learning tools. Saladin’s text requires no prior knowledge of college chemistry or cell biology, and is designed for a two-semester A&P course.

NEW TO THIS EDITION

- Chapter 20, The Circulatory System: Blood Vessels and Circulation has been reorganized with a regional approach—a more logical approach for students.
- Busy instructors can take advantage of a prepared set of assignable activities and practice quizzes that support the chapter learning objectives.
- Dr. Saladin methodically updated each chapter of the fifth edition based on reviewer feedback, the most current reference publications, and published research.
- Saladin’s stunning visuals are paired with Anatomy & Physiology Revealed’s acclaimed cadaver dissection photos and integrated into dynamic PowerPoint lecture presentations with embedded animations. Instructors can use the presentations as is or insert select slides into their existing lecture presentations.

CONTENTS

Part 1 Organization of the Body
1 Major Themes of Anatomy and Physiology
Atlas A General Orientation to Human Anatomy
2 The Chemistry of Life
3 Cellular Form and Function
4 Genetics and Cellular Function
5 Histology

Part 2 Support and Movement
6 The Integumentary System
7 Bone Tissue
8 The Skeletal System
9 Joints
10 The Muscular System
Atlas B Surface Anatomy
11 Muscular Tissue

Part 3 Integration and Control
12 Nervous Tissue
13 The Spinal Cord, Spinal Nerves, and Somatic Reflexes
14 The Brain and Cranial Nerves
15 The Autonomic Nervous System and Visceral Reflexes
16 Sense Organs
17 The Endocrine System

Part 4 Regulation and Maintenance
18 The Circulatory System: Blood
19 The Circulatory System: The Heart
20 The Circulatory System: Blood Vessels and Circulation
21 The Lymphatic and Immune Systems
22 The Respiratory System
23 The Urinary System
24 Water, Electrolyte, and Acid-Base Balance
25 The Digestive System
26 Nutrition and Metabolism

Part 5 Reproduction and Development
27 The Male Reproductive System
28 The Female Reproductive System
29 Human Development

Two-Semester Anatomy & Physiology - Textbooks

International Edition

ANATOMY AND PHYSIOLOGY
The Unity of Form and Function, 5th Edition

By Kenneth S Saladin, Georgia College and State University

2010 (January 2009) / 1248 pages
ISBN: 978-0-07-727620-1
ISBN: 978-0-07-128341-0 [IE]
http://www.mhhe.com/saladin5
HOLE'S HUMAN ANATOMY AND PHYSIOLOGY 12th Edition
By David N Shier, Washtenaw Community College, Jackie L Butler, Grayson County College and Ricki Lewis

2010 (January 2009) / 1056 pages
ISBN: 978-0-07-727618-8
http://www.mhhe.com/shier12

Hole's Human Anatomy and Physiology was created for the introductory level student and assumes no prior science knowledge by placing emphasis on the fundamentals. This new edition updates a great A&P classic while offering greater efficiencies to the user. The format for the 12th edition focuses on Learning Outcomes and Assessments. This will benefit the student along with the instructor. The 12th edition of Hole also continues to offer technology that combined with the text offer users an incredible Course Solution! Technology like Anatomy and Physiology Revealed and the new online Homework Manager bring unprecedented opportunities to the classroom whether on campus or at home!

NEW TO THIS EDITION

- Learning Outcomes and Assessments – An Outcomes and Assessments format has been incorporated throughout the text. The chapter starts with a list of outcomes for instructors and students. Outcomes are then directly tied to assessments found at the end of the chapter.
- Ancillary Correlation Guide – The authors have created a valuable ancillary correlation guide that will be available online. The guide will be organized by Learning Outcome. It will let instructors know what media or ancillary is available to support each specific Learning Outcome.
- Test Bank questions are being revised by the authors and will be correlated by Learning Outcome.
- The Instructor’s Manual has been revised and will be correlated to specific Learning Outcomes.
- Updated Micrographs – many new micrographs and corresponding line art.

CONTENTS
Unit One Levels of Organization
1 Introduction to Human Anatomy and Physiology
2 Chemical Basis of Life
3 Cells
4 Cellular Metabolism
5 Tissues
Unit Two Support and Movement
6 Integumentary System
7 Skeletal System
8 Joints of the Skeletal System
9 Muscular System
Unit Three Integration and Coordination
10 Nervous System I: Basic Structure and Function
11 Nervous System II: Divisions of the Nervous System
12 Nervous System III: Senses
13 Endocrine System
Unit Four Transport
14 Blood
15 Cardiovascular System
16 Lymphatic System and Immunity
Unit Five Absorption and Excretion
17 Digestive System
18 Nutrition and Metabolism
19 Respiratory System
20 Urinary System
21 Water, Electrolyte, and Acid-Base Balance
Unit Six The Human Life Cycle
22 Reproductive Systems
23 Pregnancy, Growth, and Development
24 Genetics and Genomics

SEELEY'S PRINCIPLES OF ANATOMY & PHYSIOLOGY
By Philip Tate, Phoenix College, Rod Seeley and Trent D Stephens of Idaho State University

2009 (January 2008) / 928 pages
ISBN: 978-0-07-722648-0
ISBN: 978-0-07-128243-7 [IE]
http://www.mhhe.com/tate

This new textbook will compete in both the “slim” segment and the full two-semester market. It will be a briefer, less-expensive alternative for instructors who have always liked Seeley et al’s Anatomy and Physiology, but struggled with the depth of the textbook, covering all of the necessary basics of anatomy and physiology.

NEW TO THIS EDITION

- Reviewers have described Tate’s writing style as concise and precise.
- Tate uses case studies plus critical thinking questions to help students apply concepts more efficiently as they read.
- Tate covers all key topics. Tate is complete, yet concise and precise.
- I can see how you might think a brief text would exclude certain topics.
- I can understand your concern. Phil Tate is one of the Seeley authors and this text does share many of the same excellent clinical examples and critical thinking applications that Seeley is known for. However, Phil re-wrote the Tate text from the ground-up to better meet the needs of today’s A&P course.

CONTENTS
1. The Human Organism
2. The Chemical Basis of Life
3. Cell Structures and Their Functions
4. Tissues, Glands, and Membranes
5. Integumentary System
6. Histology and Physiology of Bones
7. Anatomy of Bones and Joints
8. Histology and Physiology of Muscles
9. Gross Anatomy and Functions of Muscles
10. Functional Organization of Nervous Tissue
11. Peripheral and Central Nervous Systems
ANATOMY & PHYSIOLOGY

12. Integration of Sensory and Motor Functions
13. Autonomic Nervous System
14. Special Senses
15. Endocrine System
16. Blood
17. Heart
18. Blood Vessels and Circulation
19. Lymphatic System and Immunity
20. Respiratory System
21. Digestive System
22. Nutrition, Metabolism, and Body Temperature
23. Urinary System and Fluid Balance
24. Reproductive System
25. Development, Growth, Aging, and Genetics

Two-Semester
Anatomy & Physiology - Lab

LABORATORY MANUAL
FOR HUMAN ANATOMY & PHYSIOLOGY
Cat Version with PhILS 3.0 CD
By Terry R Martin, Kishwaukee College

2010 (January 2009)
ISBN: 978-0-07-727435-1
http://www.mhhe.com/martinseries1

Author Terry Martin’s thirty years of teaching anatomy and physiology courses, authorship of three laboratory manuals, and active involvement in the Human Anatomy and Physiology Society (HAPS) drove his determination to create a lab manual with an innovative approach that would benefit students. Laboratory Manual for Human Anatomy and Physiology includes a cat version and a fetal pig version. Each of these versions includes sixty-one laboratory exercises, supplemental labs found online, and six cat or fetal pig dissection labs. The Main Version contains no dissection exercises. All three versions are written to work well with any anatomy and physiology text.

FEATURES

• In Touch with Students

Pre-lab preparation is included at the very beginning of the laboratory exercise so students are prepared to start lab procedures immediately. After students complete the pre-lab and answer the questions, the laboratory procedures will be easier to follow and understand.

The procedures are clear, concise, and easy to follow. Relevant lists and summary tables present the contents efficiently. Histology micrographs and cadaver photos are incorporated in the appropriate locations within the associated labs.

• In Touch with Instructor Needs

Each laboratory exercise can be completed during a single laboratory session. An annotated instructor’s guide is provided online. Also online, the instructor will find digital assets for use in creating customized lectures, visually enhanced tests and quizzes, and other
printed support material.

- In Touch with Educational Needs

Learning outcomes are listed to enable students to accomplish the assessments provided within each laboratory exercise and laboratory report. Students and instructors will be able to assess if the purpose of the laboratory exercise is accomplished and understood.

- In Touch with Technology

Technology is integrated throughout the laboratory manual. Four BIOPAC labs on different body systems are included for enrichment. Physiology Interactive Lab Simulations (Ph.I.L.S.) is packaged with the laboratory manual and incorporated in eleven of the laboratory exercises and reports.

- Histology incorporated throughout where appropriate.
- BIOPAC® exercises included.
- Labeling exercises throughout lab – not just in lab report.
- Stand alone – can go with any text book.
- Pre-Lab questions provided on lab manual’s website.
- Exercises appropriate size for one lab session.
- Cadaver images from APR.
- Annotated instructor’s manual provided online.
- Universal terminology utilizing Terminologia Anatomica.
- Correlation guides available for Ph.I.L.S. 3.0 and Anatomy and Physiology Revealed.
- Clear, concise writing style.
- Outstanding artwork.
- Unique labs include “Scientific Method and Measurements”, “Chemistry of Life”, “Fetal Skeleton”, “Surface Anatomy”, “Diabetic Physiology”, and “Genetics”.
- Ph.I.L.S. 3.0 exercises are incorporated throughout the lab manual where they are appropriate.
- The cat reference plates are incorporated within the appropriate system of dissection. All cat dissection figures are in full color.
- Incorporates outcomes and assessments with matching icons for each laboratory exercise.

CONTENTS

Fundamentals of Human Anatomy and Physiology
1 Scientific Method and Measurements
2 Body Organization, Membranes, and Terminology
3 Chemistry of Life
4 Care and Use of the Microscope
Cells
5 Cell Structure and Function (Ph.I.L.S. 3.0 #2 Size and Basal Metabolic Rate)
6 Movements Through Cell Membranes (Ph.I.L.S. 3.0 #1 Varying Extracellular Concentration)
7 Cell Cycle
Tissues
8 Epithelial Tissues
9 Connective Tissues
10 Muscle and Nervous Tissues
Integumentary System
11 Integumentary System
Skeletal System
12 Bone Structure and Classification
13 Organization of the Skeleton
14 Skull
15 Vertebral Column and Thoracic Cage
16 Pectoral Girdle and Upper Limb
17 Pelvic Girdle and Lower Limb
18 Fetal Skeleton
19 Joint Structure and Movements
Muscular System
20 Skeletal Muscle Structure and Function (Ph.I.L.S. 3.0 #4 Stimulus-Dependent Force Generation)
21 Electromyography: BIOPAC Exercise
22 Muscles of the Head and Neck
23 Muscles of the Chest, Shoulder, and Upper Limb
24 Muscles of the Deep Back, Abdominal Wall, and Pelvic Outlet
25 Muscles of the Hip and Lower Limb
Surface Anatomy
26 Surface Anatomy
Nervous System
27 Nervous Tissue and Nerves
28 Spinal Cord and Meninges
29 Reflex Arc and Reflexes
30 Brain and Cranial Nerves
31 Electroencephalography: BIOPAC Exercise
32 Dissection of the Sheep Brain
General and Special Senses
33 General Senses
34 Smell and Taste
35 Eye Structure
36 Visual Tests and Demonstrations
37 Ear and Hearing
38 Equilibrium
Endocrine System
39 Endocrine Structure and Function (Ph.I.L.S. 3.0 #17 Thyroid Gland and Metabolic Rate)
40 Diabetic Physiology
Cardiovascular System
41 Blood Cells
42 Blood Testing (Ph.I.L.S. 3.0 #31 pH & Hb-Oxygen Binding)
43 Blood Typing
44 Heart Structure
45 Cardiac Cycle (Ph.I.L.S. 3.0 #23 The Meaning of Heart Sounds)
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47 Blood Vessel Structure, Arteries, and Veins
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S-2 Nerve Impulse Stimulation (Ph.I.L.S. 3.0 #10 The Compound Action Potential)
S-3 Factors Affecting the Cardiac Cycle (Ph.I.L.S. 3.0 #18 Thermal and Chemical Effects)
Appendix 1 Preparation of Solutions
Appendix 2 Assessments of Laboratory Reports
Appendix 3 Ph.I.L.S. Physiology Interactive Lab Simulations (correlation to laboratory exercises)
Appendix 4 Assessments of Laboratory Reports
Laboratory Manual for Human Anatomy & Physiology
Pig Version with PhILS 3.0 CD

By Terry R Martin, Kishwaukee College

2010 (January 2009)
ISBN: 978-0-07-727436-8
http://www.mhhe.com/martinseries1

Terry Martin, author of the best-selling laboratory manuals to accompany the Hole’s Human Anatomy & Physiology texts, has written a new stand alone laboratory manual. This series of laboratory manuals (main – no dissection, cat dissection, and fetal pig dissection) will incorporate Terry’s clear, concise writing style. They are not associated with any text so can be used with any anatomy and physiology text. The artwork and photos will be second to none. It will also come with a Ph.I.L.S. 3.0 CD-Rom.

Features:
- Versions Available: Main, Cat, Fetal Pig
- The cat reference plates are incorporated within the appropriate system of dissection. All cat dissection figures are in full color.
- Incorporates outcomes and assessments with matching icons for each laboratory exercise.
- Clear, concise writing style.
- Outstanding artwork – utilized a lot of artwork from Saladin.
- CD-Rom Included: Ph.I.L.S. 3.0
- Ph.I.L.S. 3.0 exercises are incorporated throughout the lab manual where they are appropriate.
- Histology incorporated throughout where appropriate.
- BIOPAC® exercises included.
- Introductory text concise and appropriate for lab.
- Labeling exercises throughout lab – not just in lab report.
- Stand alone – can go with any text book.
- Pre-Lab questions provided on lab manual’s website.
- Exercises appropriate size for one lab session.
- Cadaver images from APR.
- Lab manuals digital assets will be available online.
- Annotated instructor’s manual provided online.
- Scientific Methods & Measurements lab included.
- Chemistry of Life lab included.
- Complete Fetal Skeleton lab included.
- Diabetic Physiology lab included.
- Universal terminology utilizing Terminologia Anatomica.
- Sample assessment rubrics for laboratory reports are in an appendix.
- Lab Cam videos available on website.

- The following exercises are available online, giving instructors the option of continuing to use live specimens in these experiments if desired: Skeletal Muscle Contractions, Nerve Impulse Simulation, Factors Affecting the Cardiac Cycle.
- Correlation guides available for Ph.I.L.S. 3.0 and Anatomy and Physiology Revealed.

Contents:
Fundamentals of Human Anatomy and Physiology
1 Scientific Method and Measurements
2 Body Organization, Membranes, and Terminology
3 Chemistry of Life
4 Care and Use of the Microscope

Cells
5 Cell Structure and Function (Ph.I.L.S. 3.0 #2 Size and Basal Metabolic Rate)
6 Movements Through Cell Membranes (Ph.I.L.S. 3.0 #1 Varying Extracellular Concentration)
7 Cell Cycle

Tissues
8 Epithelial Tissues
9 Connective Tissues
10 Muscle and Nervous Tissues

Integumentary System
11 Integumentary System

Skeletal System
12 Bone Structure and Classification
13 Organization of the Skeleton
14 Skull
15 Vertebral Column and Thoracic Cage
16 Pectoral Girdle and Upper Limb
17 Pelvic Girdle and Lower Limb
18 Fetal Skeleton
19 Joint Structure and Movements

Muscular System
20 Skeletal Muscle Structure and Function (Ph.I.L.S. 3.0 #4 Stimulus-Dependent Force Generation)
21 Electromyography: BIOPAC Exercise
22 Muscles of the Head and Neck
23 Muscles of the Chest, Shoulder, and Upper Limb
24 Muscles of the Deep Back, Abdominal Wall, and Pelvic Outlet
25 Muscles of the Hip and Lower Limb

Surface Anatomy
26 Surface Anatomy

Nervous System
27 Nervous Tissue and Nerves
28 Spinal Cord and Meninges
29 Reflex Arc and Reflexes
30 Brain and Cranial Nerves
31 Electroencephalography: BIOPAC Exercise
32 Dissection of the Sheep Brain

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33 General Senses
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37 Ear and Hearing
38 Equilibrium

Endocrine System
39 Endocrine Structure and Function (Ph.I.L.S. 3.0 #17 Thyroid Gland and Metabolic Rate)
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Cardiovascular System
41 Blood Cells
42 Blood Testing (Ph.I.L.S. 3.0 #31 pH & Hb-Oxygen Binding)
43 Blood Typing
44 Heart Structure
45 Cardiac Cycle (Ph.I.L.S. 3.0 #23 The Meaning of Heart Sounds)
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47 Blood Vessel Structure, Arteries, and Veins
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Digestive System  
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Urinary System  
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62 Fetal Pig Dissection: Musculature  
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66 Fetal Pig Dissection: Urinary System  
67 Fetal Pig Dissection: Reproductive Systems  

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S-2 Nerve Impulse Stimulation (Ph.I.L.S. 3.0 #10 The Compound Action Potential)  
S-3 Factors Affecting the Cardiac Cycle (Ph.I.L.S. 3.0 #18 Thermal and Chemical Effects)  
Appendix 1 Preparation of Solutions  
Appendix 2 Anatomy & Physiology Revealed (correlation to laboratory exercises)  
Appendix 3 Ph.I.L.S. Physiology Interactive Lab Simulations (correlation to laboratory exercises)  
Appendix 4 Assessments of Laboratory Reports  

NEW  

LABORATORY MANUAL FOR HUMAN ANATOMY & PHYSIOLOGY  
Main Version with PhILS 3.0 CD  
By Terry R Martin, Kishwaukee College  

2010 (January 2009)  
ISBN: 978-0-07-727434-4  
http://www.mhhe.com/martinseries1  

Author Terry Martin’s thirty years of teaching anatomy and physiology courses, authorship of three laboratory manuals, and active involvement in the Human Anatomy and Physiology Society (HAPS) drove his determination to create a lab manual with an innovative approach that would benefit students. Laboratory Manual for Human Anatomy and Physiology includes a cat version and a fetal pig version. Each of these versions includes sixty-one laboratory exercises, supplemental labs found online, and six cat or fetal pig dissection labs. The Main Version contains no dissection exercises. All three versions are written to work well with any anatomy and physiology text.  

FEATURES  
❖ In Touch with Students  
Pre-lab preparation is included at the very beginning of the laboratory exercise so students are prepared to start lab procedures immediately. After students complete the pre-lab and answer the questions, the laboratory procedures will be easier to follow and understand.  

The procedures are clear, concise, and easy to follow. Relevant lists and summary tables present the contents efficiently. Histology micrographs and cadaver photos are incorporated in the appropriate locations within the associated labs.  
❖ In Touch with Instructor Needs  
Each laboratory exercise can be completed during a single laboratory session. An annotated instructor’s guide is provided online. Also online, the instructor will find digital assets for use in creating customized lectures, visually enhanced tests and quizzes, and other printed support material.  
❖ In Touch with Educational Needs  
Learning outcomes are listed to enable students to accomplish the assessments provided within each laboratory exercise and laboratory report. Students and instructors will be able to assess if the purpose of the laboratory exercise is accomplished and understood.  
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❖ Cadaver images from APR.  
❖ Annotated instructor’s manual provided online.  
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❖ Correlation guides available for Ph.I.L.S. 3.0 and Anatomy and Physiology Revealed.  
❖ Clear, concise writing style.  
❖ Outstanding artwork.  
❖ Unique labs include “Scientific Method and Measurements”, “Chemistry of Life”, “Fetal Skeleton”, “Surface Anatomy”, “Diabetic Physiology”, and “Genetics”.  

CONTENTS  
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4 Care and Use of the Microscope  
5 Cell Structure and Function  
6 Movements Through Membranes  
7 Cell Cycle  
Tissues  
8 Epithelial Tissues  
9 Connective Tissues  
10 Muscle and Nervous Tissues  
Integumentary System  
11 Integumentary System  
Skeletal System  
12 Bone Structure and Classification  
13 Organization of the Skeleton  
14 Skull
NEW LABORATORY MANUAL HOLE'S HUMAN A&P (CAT)
12th Edition
By Terry R Martin, Kishwaukee College
2010 (February 2009)

This best-selling Laboratory Manual, written by Terry R. Martin, has been updated throughout. The new 12th edition is now available in a Cat version or a Fetal Pig version. Both versions of the 12th edition are organized into units that correlate directly with the text and include new and updated art to match Hole’s Human Anatomy and Physiology, 12e.

NEW TO THIS EDITION
- An Outcomes and Assessments format has been incorporated throughout the lab manual. The exercise starts with a list of outcomes for instructors and students. Outcomes are then directly tied to assessments.
- A new Exercise 24: Surface Anatomy has been added based upon feedback from current users and reviews.
- The following exercise has been moved to the text web site, giving instructors the option of using the exercise or not: Blood Testing.

CONTENTS

Fundamentals of Human Anatomy and Physiology
1 Scientific Method and Measurements
2 Body Organization and Terminology
3 Chemistry of Life
4 Care and Use of the Microscope

Cells
5 Cell Structure and Function
6 Movements Through Cell Membranes
7 Cell Cycle

Tissues
8 Epithelial Tissues
9 Connective Tissues
10 Muscle and Nervous Tissues

Integumentary System
11 Integumentary System

 Inhalation System
12 Bone Structure and Classification
13 Organization of the Skeleton
14 Skull
15 Vertebrae Column and Thoracic Cage
16 Pectoral Girdle and Upper Limb
17 Pelvic Girdle and Lower Limb
18 Muscle Structure and Movements

Muscular System
19 Skeletal Muscle System
20 Muscles of the Face, Head and Neck
21 Muscles of the Chest, Shoulder, and Upper Limb
22 Muscles of the Deep Back, Abdominal Wall, and Pelvic Outlet
23 Muscles of the Hip and Lower Limb

Surface Anatomy
24 Surface Anatomy

Nervous System
25 Nervous Tissue and Nerves
26 Spinal Cord and Meninges
27 Reflex Arc and Reflexes
28 Brain and Cranial Nerves
29 Dissection of the Sheep Brain

General and Special Senses
30 Receptors General Senses

ANATOMY & PHYSIOLOGY
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- A new Exercise 24: Surface Anatomy has been added based upon feedback from current users and reviews.
- The following exercise has been moved to the text website, giving instructors the option of using the exercise or not: Blood Testing.
- Instructors can download Instructor’s Manual and other materials at: www.mhhe.com/labcentral

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Fundamentals of Human Anatomy and Physiology
1 Scientific Method and Measurements
2 Body Organization and Terminology
3 Chemistry of Life
4 Care and Use of the Microscope

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8 Epithelial Tissues
9 Connective Tissues
10 Muscle and Nervous Tissues

Integumentary System
11 Integumentary System

Skeletal System
12 Bone Structure and Classification
13 Organization of the Skeleton
14 Skull
15 Vertebral Column and Thoracic Cage
16 Pectoral Girdle and Upper Limb
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18 Joint Structure and Movements

Muscular System
19 Skeletal Muscle Structure
20 Muscles of the Face, Head and Neck
21 Muscles of the Chest, Shoulder, and Upper Limb
22 Muscles of the Deep Back, Abdominal Wall, and Pelvic Outlet
23 Muscles of the Hip and Lower Limb

Surface Anatomy
24 Surface Anatomy

Nervous System
25 Nervous Tissue and Nerves
26 Spinal Cord and Meninges
27 Reflex Arc and Reflexes
28 Brain and Cranial Nerves
29 Dissection of the Sheep Brain

General and Special Senses
30 Receptors General Senses
31 Smell and Taste
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33 Equilibrium
34 Eye Structure
35 Visual Tests and Demonstrations

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36 Endocrine Structure and Diabetic Physiology

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37 Blood Cells and Blood Typing
38 Heart Structure
39 Cardiac Cycle
40 Blood Vessel Structure, Arteries, and Veins
41 Pulse Rate and Blood Pressure

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42 Lymphatic System

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43 Digestive Organs
ANATOMY & PHYSIOLOGY

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55 Fetal Pig Dissection: Cardiovascular System
56 Fetal Pig Dissection: Digestive System
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59 Fetal Pig Dissection: Reproductive Systems
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13 Introduction to the Study of Muscles and Muscles of the Shoulder and Arm
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19 Muscle Physiology
20 Introduction to the Nervous System
21 Structure and Function of the Brain and Cranial Nerves
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23 Nervous System Physiology--Stimuli and Reflexes
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34 Introduction to Blood Vessels and Arteries of the Upper Body
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36 Veins and Special Circulation
37 Functions of Vessels, Lymphatic System
38 Blood Vessels and Blood Pressure
39 Structure of the Respiratory System
40 Respiratory Function, Breathing, Respiration
41 Physiology of Exercise
42 Anatomy of the Digestive System
43 Digestive Physiology
44 Urinary System
45 Urinalysis
46 Male Reproductive System
47 Female Reproductive System
Appendix A Measurement Conversions Appendix B Preparation of Materials and Solutions Appendix C Lab Reports Appendix D Common Prefixes, Suffixes, and Root Words in Anatomy and Physiology

NEW TO THIS EDITION
- The fifth edition includes many new and revised illustrations and photographs. Several photographs in the manual have been enlarged and enhanced to show better detail and consistency. This is particularly true regarding the photographs of cat dissections. The artwork and the photographs in the fifth edition were carefully matched not only for visual comparisons but also for terminology as well.
- Appendix D has been added to include common prefixes, suffixes, and root words commonly used in the anatomy and physiology course.
- Instructors can download Instructors Manual’s and other materials at: www.mhhe.com/labcentral
- Exercise 1 now includes an introduction to lab science and chemistry and has retained its section on measurement.

INVITATION TO PUBLISH

McGraw-Hill is interested in reviewing textbook proposal for publication. Please contact your local McGraw-Hill office or email to asiapub@mghill.com

Visit McGraw-Hill Education (Asia) Website: www.mheducation.asia
The Workbook to Accompany Anatomy and Physiology Revealed, Version 2 by Robert Broyles is a workbook/study guide designed to help students get the most they can out of the Anatomy and Physiology Revealed (APR), and out of their anatomy and physiology course. The Table of Contents closely follows both the new DVD set and the online adaptation, and is organized along the lines of a typical Anatomy and Physiology course. The individual exercises include art from APR and also have review questions, tables, coloring exercises, terminology quiz questions, and reminders on key content.

NEW TO THIS EDITION

- A new chapter, Histology, has been added to this workbook, corresponding to the new content on histology in APR, Version 2.
- A new chapter, The Integumentary System, has been included in the workbook, correlating to the new section on the same in APR, Version 2.
- New content on articulations has been added to the chapter on the Skeletal System, reflecting similar updates to APR, Version 2.
- New content on insertions and origins has been included in The Muscular System chapter, based on new additions to APR, Version 2.
- More coloring exercises on structure are included in the workbook.
- All changes to the interface of version two of APR have consequently been noted and updated via directions to the student in the workbook.

CONTENTS

Chapter 1: Introduction: Becoming Familiar with Anatomy and Physiology Revealed
Chapter 2: Histology (Detailed information to come)
Chapter 3: The Integumentary System (Detailed information to come)
Chapter 4: The Skeletal System with Articulations (Detailed information on articulations to come)
Chapter 5: The Muscular System
Chapter 6: The Nervous System
Chapter 7: The Cardiovascular System
Chapter 8: The Lymphatic System
Chapter 9: The Respiratory System
Chapter 10: The Digestive System
Chapter 11: The Urinary System
Chapter 12: The Reproductive System
Chapter 13: The Endocrine System

Written by Eric Wise of Santa Barbara City College, this comprehensive manual contains 43 laboratory exercises that are integrated closely with the textbook. Each exercise demonstrates key anatomical and physiological facts and principles presented in Seeley’s Principles of Anatomy and Physiology by directing students to investigate specific concepts in greater detail. An instructor’s manual for the laboratory manual is available online at www.mhhe.com/labcentral.

FEATURES

- Step-by-step explanations and a complete materials list for each experiment.
- Precisely labeled, full-color drawings.
- Numerous full-color photomicrographs and dissection photographs.
- Self-contained presentations with the essential background information needed to complete each exercise—material is not just repeated from the text.
- Integrated use of cat dissection specimen with material on human anatomy.
- Extensive lab reports at the end of every exercise challenge students to review and apply what they have learned.
- Data collection embedded in each exercise as opposed to in a table at the back of the manual.
- Laboratory Safety Guidelines prominently displayed on inside front cover and caution symbols appear throughout manual where appropriate.

CONTENTS

1. Organs, Systems, and Organization of the Body
2. Microscopy
3. Cell Structure and Function
4. Tissues
5. Integumentary System
6. Introduction to the Skeletal System
7. Appendicular Skeleton
8. Axial Skeleton: Vertebrae, Ribs, Sternum, Hyoid
9. Axial Skeleton: Skull
10. Articulations
11. Muscle Physiology
12. Introduction to the Study of Muscles and Muscles of the Shoulder and Upper Extremity
13. Muscles of the Hip, Thigh, Leg, and Foot
14. Muscles of the Head and Neck
15. Muscles of the Torso
16. Introduction to the Nervous System
17. Brain and Cranial Nerves
18. Spinal Cord and Somatic Nerves
19. Nervous System Physiology: Stimuli and Reflexes
20. Introduction to Sensory Receptors
21. Taste and Smell
22. Eye and Vision
23. Ear, Hearing, and Balance
24. Endocrine System
25. Blood
26. Blood Tests and Typing
27. Structure of the Heart
28. Electrical Conductivity of the Heart
29. Functions of the Heart
30. Introduction to Blood Vessels and Arteries of the Upper Body
31. Arteries of the Lower Body
32. Veins and Special Circulations
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36. Respiratory Function, Breathing, and Respiration
37. Physiology of Exercise and Pulmonary Health
38. Anatomy of the Digestive System
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40. Anatomy of the Urinary System
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42. Male Reproductive System
43. Female Reproductive System

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Appendix B Preparation of Materials
Appendix C Lab Reports
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LABORATORY MANUAL TO ACCOMPANY
SEELEY'S ANATOMY AND PHYSIOLOGY
8th Edition
By Eric Wise, Santa Barbara City College
2008 (March 2007) / 560 pages
ISBN: 978-0-07-334725-7

CONTENTS
1. Organs, Systems, and Organization of the Body
2. Microscopy
3. Cell Structure and Function
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5. Integumentary System
6. Introduction to the Skeletal System
7. Appendicular Skeleton
8. Axial Skeleton: Vertebrae, Ribs, Sternum, Hyoid
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Visit McGraw-Hill Education Website: www.mheducation.asia
Anatomy & Physiology Revealed is the ultimate interactive cadaver dissection experience. This state-of-the-art program uses cadaver photos combined with a layering technique that allows the student to peel away layers of the human body to reveal structures beneath the surface. Anatomy & Physiology Revealed also offers animations, histologic and radiologic imaging, audio pronunciations, and a comprehensive quizzing tool. It can be used as part of any one or two semester undergraduate anatomy & physiology or human anatomy course; it is available as a stand-alone or can be combined with any of McGraw-Hill’s Anatomy & Physiology textbooks.

**FEATURES**

- New Organ System Added -- The Integumentary System has been added to the list of organ systems included in this program. All layers of the skin will be included and this new section will also feature histology images and full coverage of the dermis, epidermis, hair shaft, specific glands, etc.
- Expanded Skeletal and Joint Coverage -- The Skeletal System and Muscular System have been separated into each their own system allowing for substantially expanded information to be provided in each. The Skeletal System will now include full coverage of joint dissections. 75 NEW photos of disarticulated bones have been added.
- NEW! Expanded Quizzing Types and Options -- Physiology animation quizzes have been added to Skeletal, Muscular and Nervous Systems. In addition, the user can now select the number of questions he/she wants included in each quiz (10, 25 or ALL).
- NEW! Navigation and Interface changes!
  - System selection menu makes it easy to hop between systems.
  - A new “Smart” (Google-like) search button has been added and integrated across all systems.
  - Tags are now color coded. All tags pertaining to the given system are one color and reference structures that are not part of that system are another color.
  - A recent research study proved that students using APR in the lab performed nearly 2x better than students using traditional methods (lab manual + animal specimen).

- 63% of students in a recent study stated that APR encouraged an active-learning process compared to 31% who said the same about traditional lab.
- 75% of students in a recent study indicated they routinely used APR to study on their own, vs. 29% who used traditional lab materials to study on their own.
- I can see how you might think you have to use cadavers to use this product. It is a common misconception.
- I can understand your concern. Our research has shown that students do use APR when it is incorporated into the lecture and/or lab.
- I am pretty happy with the textbook and media I am using now. Everything is working fine.

**CONTENTS**

Integumentary System
Skeletal System
Muscular System
Nervous System
Cardiovascular System
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Skeletal System
Muscular System
Nervous System
Endocrine System
Cardiovascular System
Respiratory System
Lymphatic System
Digestive System
Urinary System
Reproductive System

NEW

STUDENT ACCESS CARD
PH.I.L.S
(PHYSIOLOGY INTERACTIVE LAB SIMULATIONS) ONLINE

By Phillip Stephens, Villanova University

2009 (September 2008)
ISBN: 978-0-07-334932-9
www.mhhe.com/phils

Ordering this ISBN will give you online access to the product-specific site where you’ll find study and self-testing tools. Created by Dr. Phil Stephens at Villanova University, the Ph.I.L.S (physiology interactive lab simulations) offers 37 laboratory simulations. This revolutionary learning tool may be used to supplement or substitute for wet labs. Students can use Ph.I.L.S. to adjust variables, view outcomes, make predictions, and draw conclusions. This easy-to-use software offers each student the flexibility to change the parameters of the lab experiment. There is no limit to the amount of times a student can repeat the experiment or change variables within the experiments. Ph.I.L.S. allows students to perform experiments without having to use expensive lab equipment (like Biopac, IWORX or Intellitool). Students can work individually to perform the experiments on their own time without harming themselves or live animals. Ph.I.L.S. is the perfect way reinforce key Physiology concepts with powerful lab experiments.

FEATURES


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1. Varying Extracellular Concentration
   Metabolism
2. Size and Basal Metabolic Rate
3. Cyanide and Electron Transport
Skeletal Muscle Function
4. Stimulus Dependent Force Generation
5. The Length-Tension Relationship
6. Principles of Summation and Tetanus
7. EMG and Twitch Amplitude
Resting Potentials
8. Resting Potential and External
Potassium Concentration
9. Resting Potential and External
Sodium Concentration
10. The Compound Action Potential
11. Conduction Velocity and Temperature
12. Action Potentials and Refractory Periods
13. Measuring Ion Currents
Synaptic Potentials
14. Facilitation & Depression
15. Temporal Summation of EPSPs
16. Spatial Summation of EPSPs
Endocrine Function
17. Thyroid Gland and Metabolic Rate
Frog Heart Function
18. Thyroid and Chemical Effects
19. Refractory Period of the Heart
20. Starling’s Law of the Heart
21. Heart Block
ECG and Heart Function
22. ECG and Exercise
23. The Meaning of Heart Sounds
24. ECG and Finger Pulse
25. Electrical Axis of the Heart
26. ECG and Heart Block
27. Abnormal ECGs
Circulation
28. Cooling and Peripheral Blood Flow
29. Blood Pressure and Gravity
30. Blood Pressure and Body Position
Blood
31. pH & Hb-oxygen Binding
32. DPG & Hb-oxygen Binding
Respiration
33. Altering Body Position
34. Altering Airway Volume
35. Exercise-Induced Changes
36. Deep Breathing and Cardiac Function
Digestion
37. Glucose Transport

ANATOMY AND PHYSIOLOGY REVEALED VERSION 2.0 CD
By Medical College of Ohio
2008 (July 2007)

Anatomy & Physiology Revealed is the ultimate interactive cadaver dissection experience. This state-of-the-art tutorial uses cadaver photos combined with a layering technique that allows the student to peel away layers of the human body to reveal structures beneath the surface. Anatomy & Physiology Revealed offers animations, radiologic imaging, audio pronunciations, and a comprehensive quizzing tool. This tutorial can be used as part of any one or two semester undergraduate Anatomy & Physiology course; it is available as a stand-alone or can be combined with any of McGraw-Hill’s Anatomy & Physiology textbooks.
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Skeletal System
Muscular System
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Respiratory System
Urinary System
Digestive System
Endocrine System
Reproductive System

PH.I.L.S VERSION 3.0 CD-ROM
By Philip J Stephens, Villanova University
2008 (July 2007)
ISBN: 978-0-07-334933-6

Ph.I.L.S (Physiology Interactive Lab Simulations) 3.0 offers a new interface which makes it easier to maneuver throughout the system. There are also new post lab quizzes offering more assessment opportunities! Ph.I.L.S 3.0 is the perfect way to reinforce key physiology concepts with powerful lab experiments. Created by Dr. Phil Stephens at Villanova University, this program offers 37 laboratory simulations that may be used to supplement or substitute for wet labs. All 37 labs are self-contained experiments - no lengthy instruction manual required. Users can adjust variables, view outcomes, make predictions, draw conclusions, and print lab reports. This easy-to-use software offers the flexibility to change the parameters of the lab experiment - there is no limit!

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2. Size and Basal Metabolic Rate
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36. Deep Breathing and Cardiac Function
Digestion
37. Glucose Transport

ANATOMY & PHYSIOLOGY
- Supplements

AN ATLAS TO HUMAN ANATOMY
By Dennis Strete, McLennan Community College
2000 / 208 pages
www.mhhe.com/biosci/abio

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Human Anatomy - Textbooks

HUMAN ANATOMY
2nd Edition
By Michael McKinley, Glendale Community College and Valerie O'Loughlin, Indiana University-Bloomington
2008 (October 2007)
ISBN: 978-0-07-721340-4
http://www.mhhe.com/mckinley2

With its unrivaled art program and accessible writing style, McKinley/O'Loughlin's Human Anatomy stands apart from other anatomy texts. High-quality photographs paired with brilliantly rendered illustrations help students visualize, understand, and appreciate the wonders of human anatomy. Student-friendly Study Tips, Clinical View boxes, and progressive question sets motivate students to internalize and apply what they've learned. The second edition has been refined based on reviewer feedback to offer an even stronger version of this highly acclaimed textbook.

CONTENTS
1 A First Look at Anatomy
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4 Tissue Level of Organization
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7 Axial Skeleton
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16 Spinal Cord and Spinal Nerves
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20 Endocrine System
Cardiovascular System
21 Blood
22 Heart
23 Vessels and Circulation
24 Lymphatic System
25 Respiratory System
26 Digestive System
27 Urinary System
28 Reproductive System
From the most pedagogically sound organization to the exceptional art, to the complete integration of the text with technology, Saladin has formed a teaching system that will both motivate and enable students to understand and appreciate the wonders of human anatomy. This distinctive text was developed to stand apart from all other anatomy texts with an approach borne out of 25 years of teaching, unparalleled art, and a writing style that has been acclaimed by reviewers. Designed for a one-semester college anatomy course, Saladin requires no prior knowledge of college chemistry or cell biology.

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1 The Study of Human Anatomy Atlas A Survey of the Human Body
2 Cytology—The Study of Cells
3 Histology—The Study of Tissues
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10 The Muscular System—Introduction
11 The Axial Musculature
12 The Appendicular Musculature Atlas B Surface Anatomy

Part Three: Integration and Control
13 Nervous Tissue
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17 Sense Organs
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Part Four: Maintenance
19 The Circulatory System I—Blood
20 The Circulatory System II—The Heart
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22 The Lymphatic System and Immunity
23 The Respiratory System
24 The Digestive System
25 The Urinary System

Part Five: Reproduction
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WORKBOOK TO ACCOMPANY ANATOMY & PHYSIOLOGY REVEALED VERSION 2 CD

By Robert Broyles, Butler County Community College

2009 (January 2008) / 480 pages

The Workbook to Accompany Anatomy and Physiology Revealed, Version 2 by Robert Broyles is a workbook/study guide designed to help students get the most they can out of the Anatomy and Physiology Revealed (APR), and out of their anatomy and physiology course. The Table of Contents closely follows both the new DVD set and the online adaptation, and is organized along the lines of a typical Anatomy and Physiology course. The individual exercises include art from APR and also have review questions, tables, coloring exercises, terminology quiz questions, and reminders on key content.

NEW TO THIS EDITION
- A new chapter, Histology, has been added to this workbook, corresponding to the new content on histology in APR, Version 2.
- A new chapter, The Integumentary System, has been included in the workbook, correlating to the new section on the same in APR, Version 2.
- New content on articulations has been added to the chapter on the Skeletal System, reflecting similar updates to APR, Version 2.
- New content on insertions and origins has been included in The Muscular System chapter, based on new additions to APR, Version 2.
- More coloring exercises on structure are included in the workbook.
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Chapter 2: Histology (Detailed information to come)
Chapter 3: The Integumentary System (Detailed information to come)
Chapter 4: The Skeletal System with Articulations (Detailed information on articulations to come)
Chapter 5: The Muscular System
Chapter 6: The Nervous System
Chapter 7: The Cardiovascular System
Chapter 8: The Lymphatic System
Chapter 9: The Respiratory System
Chapter 10: The Digestive System
Chapter 11: The Urinary System
Chapter 12: The Reproductive System
Chapter 13: The Endocrine System

LABORATORY ATLAS OF ANATOMY & PHYSIOLOGY

6th Edition

By Douglas J Eder, University of North Florida

2009 (June 2008) / 192 pages

This full-color atlas is intended to effectively supplement the A&P laboratory course and aid students in their studies. Eder’s high-quality visuals, in combination with its unique tables, make it a valuable supplement in any lab course. Tables include terms and definitions as well as descriptions of the origin, insertion, action, and innervation of muscles. This atlas illustrates the dissection structures as they actually exist, so students will be able to easily recognize the parts when they are dissecting or taking an exam.

NEW TO THIS EDITION
- In the 6th edition, Chapter 5, now titled Specialized Organs, has incorporated a much-requested cow eye dissection. This new dissection accompanies the existing brain, heart and kidney photos.
- The order of the last two chapters has been switched so that the reference tables (formerly chapter 5) now appear as Chapter 6, at the end of the atlas.
- Amid the many updates, the illustrations in Chapter 3, Human Muscular Anatomy, have been updated to correspond to Saladin, Anatomy & Physiology, 4th edition. Numbered labels on dissection photos have also been enhanced to improve the labels’ visibility.
- Throughout (but especially in chapter 4), numbered labels on dissection photos have been made more visible, per reviewer and publisher requests.

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Chapter 1: Histology
Chapter 2: Human Skeletal Anatomy
Chapter 3: Human Muscular Anatomy
Chapter 4: Dissections
Chapter 5: Specialized Organs
Chapter 6: Reference Tables
2009 (January 2008) / 240 pages
ISBN: 978-0-07-304968-7

The 6th edition includes changes reflecting modern understanding, terminology and teaching of the musculoskeletal system. There are changes on 42 different pages including many new or enhanced notes on function and 20 new descriptions or explanations of anatomical relationships.

NEW TO THIS EDITION
- Major improvements in the 6th edition! The 6th edition includes changes reflecting modern understanding, terminology and teaching of the musculoskeletal system. There are changes on 42 different pages including many new or enhanced notes on function and 20 new descriptions or explanations of anatomical relationships.

A Summary of these changes are:
- Enhanced explanation of motions (e.g. captions of figs 2.19, 2.20)
- Many additional notes describing the relationships of muscles, tendons and nerves (e.g. VMO, page 180)
- Helpful descriptions used in real classroom teaching (e.g. anatomical snuffbox, page 150, Tom, Dick and Harry, page 207)
- Updated terminology (e.g. fibularis for peroneus)
- Several upgraded illustrations (e.g. page 3)

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Chapter 17: The Nervous System – General and Special Senses
Chapter 18: The Endocrine System
Chapter 19: The Cardiovascular System – Blood
Chapter 20: The Cardiovascular System – Heart
Chapter 21: The Cardiovascular System – Blood Vessels
Chapter 22: The Lymphatic System
Chapter 23: The Respiratory System
Chapter 24: The Digestive System
Chapter 25: The Urinary System
Chapter 26: The Reproductive Systems
Appendix
Credits
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REGIONAL HUMAN ANATOMY
A Laboratory Workbook for use with Models and Prosections, 3rd Edition
By Frederick Edward Grine, Stony Brook University
2008 (December 2006) / 416 pages
ISBN: 978-0-07-305128-4

The Grine Lab Workbook is designed for the Human Anatomy Lab course and takes a REGIONAL approach as opposed to a systems approach. This approach is becoming more and more popular as a way to teach Human Anatomy. Instructors who use a lab book with a "regional approach" and combine it with a text that takes a "systems" approach offer their students a combination that serves to reinforce anatomical knowledge since it forces the student to see each anatomical structure from two perspectives. Grine can be used effectively in conjunction with a lab course that uses human cadavers since the content is presented in the regional sequence typically practiced in dissection.

CONTENTS
Laboratory 1: Anatomical Terminology, General Osteology, and General Arthrology
1.1 Anatomical Terminology 1.2 General Osteology 1.3 General Arthrology
Laboratory 2: The Back 2.1 The Integument 2.2 The Vertebral Column 2.3 Spinal Cord and Spinal Nerves 2.4 Muscles of the Back
Laboratory 3: The Upper Limb 3.1 Bones of the Upper Limb 3.2 Joints of the Upper Limb 3.3 Innervation of the Upper Limb 3.4 Muscles of the Upper Limb 3.5 Blood Vessels of the Upper Limb
Laboratory 4: The Lower Limb 4.1 Bones of the Lower Limb 4.2 Joints of the Lower Limb 4.3 Innervation of the Lower Limb 4.4 Muscles of the Lower Limb 4.5 Blood Vessels of the Lower Limb
Laboratory 5: The Neck 5.1 Bones and Cartilages of the Neck 5.2 Nerves of the Neck 5.3 Muscles of the Neck 5.4 Blood Vessels of the Neck
Laboratory 6: The Head 6.1 The Skull 6.2 The Dentition 6.3 Muscles of the Head 6.4 Nasal and Oral Cavities 6.5 Blood Vessels of the Head
Laboratory 7: The Brain and Cranial Nerves 7.1 The Brain 7.2 Cranial Nerves
Laboratory 8: The Eye and The Ear 8.1 The Eye 8.2 The Ear
Laboratory 10: The Abdomen 10.1 The Abdominal Skeleton 10.2 Skeletal Muscles of the Abdomen 10.3 Abdominal Cavity and peritoneum 10.4 Digestive Canal and Organs 10.5 Blood Vessels of the Gut 10.6 Lymphatic Organs and Lymph Drainage 10.7 The Kidneys and Adrenal Glands 10.8 Gonadal Blood Vessels 10.9 Nerves in the Abdomen
Laboratory 11: The Pelvis 11.1 The Pelvic Skeleton 11.2 Muscles of the Pelvis 11.3 Peritoneum in the Pelvic Cavity 11.4 Common Pelvic Viscera 11.5 Male Genitalia 11.6 Female Genitalia 11.7 Blood Vessels of the Pelvis 11.8 Nerves of the Pelvis

HUMAN ANATOMY LABORATORY MANUAL
2nd Edition
By Eric Wise
2008 (June 2007) / 320 pages

This laboratory manual is expressly written to coincide with the Chapters of Human Anatomy, 2/e by Kenneth Saladin. This lab manual has clear explanations of anatomy experiments. Other features include a set of review questions at the end of each lab, plus numerous outstanding color photographs and artwork.

CONTENTS
1 Organs, Systems, and Organization of the Body
2 Microscopy
3 Cell Structure
4 Tissues
5 Integumentary System
6 Introduction to the Skeletal System
7 Appendicular Skeleton
8 Axial Skeleton: Vertebrae, Ribs, Sternum, Hyoid
9 Axial Skeleton—Skull
10 Articulations
11 Introduction to the Study of Muscles and Muscles of the Shoulder and Upper Extremity
12 Muscles of the Hip, Thigh, Leg and Foot
13 Muscles of the Head and Neck
14 Muscles of the Torso
15 Introduction to the Nervous System
16 Brain and Cranial Nerves
17 Spinal Cord and Somatic Nerves
18 Introduction to Sensory Receptors
19 Endocrine System
20 Blood Cells
21 The Heart
22 Introduction to Blood Vessels and Arteries of the Upper Body
23 Arteries of the Lower Body
24 Veins, Fetal Circulation, and the Lymphatic System
25 Respiratory System
26 Digestive System
27 Urinary System
28 Male Reproductive System
29 Female Reproductive System
Appendix Preparation of Materials
ANATOMY & PHYSIOLOGY

Human Anatomy - Multimedia

ANATOMY & PHYSIOLOGY REVEALED VERSION 2.0 ONLINE
By Medical College of Ohio

2009 (January 2008)
www.aprevealed.com

Anatomy & Physiology Revealed is the ultimate interactive cadaver dissection experience. This state-of-the-art program uses cadaver photos combined with a layering technique that allows the student to peel away layers of the human body to reveal structures beneath the surface. Anatomy & Physiology Revealed also offers animations, histologic and radiologic imaging, audio pronunciations, and a comprehensive quizzing tool. It can be used as part of any one or two semester undergraduate anatomy & physiology or human anatomy course; it is available as a stand-alone or can be combined with any of McGraw-Hill’s Anatomy & Physiology textbooks.

FEATURES

❖ New Organ System Added -- The Integumentary System has been added to the list of organ systems included in this program. All layers of the skin will be included and this new section will also feature histology images and full coverage of the dermis, epidermis, hair shaft, specific glands, etc.

❖ Expanded Skeletal and Joint Coverage -- The Skeletal System and Muscular System have been separated into each their own system allowing for substantially expanded information to be provided in each. The Skeletal System will now include full coverage of joint dissections. 75 NEW photos of disarticulated bones have been added.

❖ NEW Histology Section! -- Version 2.0 of Anatomy & Physiology Revealed includes a new button for histology views to support every body system. Students can access this information by clicking on the microscope icon located on the navigation bar.

❖ NEW! Expanded Quizzing Types and Options -- Physiology animation quizzes have been added to Skeletal, Muscular and Nervous Systems. In addition, the user can now select the number of questions he/she wants included in each quiz (10, 25 or ALL).

❖ NEW! Navigation and Interface changes!

❖ System selection menu makes it easy to hop between systems.

❖ A new “Smart” (Google-like) search button has been added and integrated across all systems.

❖ Tags are now color coded. All tags pertaining to the given system are one color and reference structures that are not part of that system are another color.

CONTENTS
Integumentary System
Skeletal System
Muscular System

ANATOMY AND PHYSIOLOGY REVEALED VERSION 2.0 CD
By Medical College of Ohio
2008 (July 2007)

Anatomy & Physiology Revealed is the ultimate interactive cadaver dissection experience. This state-of-the-art tutorial uses cadaver photos combined with a layering technique that allows the student to peel away layers of the human body to reveal structures beneath the surface. Anatomy & Physiology Revealed offers animations, radiologic imaging, audio pronunciations, and a comprehensive quizzing tool. This tutorial can be used as part of any one or two semester undergraduate Anatomy & Physiology course; it is available as a stand-alone or can be combined with any of McGraw-Hill’s Anatomy & Physiology textbooks.

CONTENTS
Integumentary System
Skeletal System
Muscular System
Nervous System
Cardiovascular System
Lymphatic System
Respiratory System
Urinary System
Digestive System
Endocrine System
Reproductive System

INVITATION TO PUBLISH

McGraw-Hill is interested in reviewing textbook proposal for publication. Please contact your local McGraw-Hill office or email to asiapub@mcgraw-hill.com

Visit McGraw-Hill Education (Asia)
Website: www.mheducation.asia
NEW TO THIS EDITION

❖ Updated Art Program – 15 new figures have been added to support text discussions. In addition, numerous figures have been upgraded to the “Stepped-Out” format in response to positive feedback from users and reviewers alike. These figures are broken down into steps to better explain difficult physiological processes.

❖ Updated Clinical Investigations – Clinical Investigations have been updated to emphasize the new terms and concepts presented in these clinical scenarios. In addition, solutions to the investigations have been incorporated at the end of each chapter, allowing students to connect the case to concepts covered in the chapter.

❖ Learning System Updates – To maximize functionality and efficiency, many pedagogical devices have been streamlined or enhanced. Learning systems now introduce each major chapter section, and “Check Point” questions assess whether objectives have been met. A new problem set—“Test Your Quantitative Ability”—has been added to each chapter review, giving students the opportunity to quantitatively apply what they have learned.

❖ Revisions and Content Updates Throughout – Content in every chapter has been updated where appropriate to keep the text current and refined. Fox helps students master the fundamentals by providing appropriate anatomical detail. Human Physiology, Eleventh Edition, is intended for the one-semester Human Physiology course often taken by allied health and biology students. The beginning chapters introduce basic chemical and biological concepts to provide students with the framework they need to comprehend physiological principles. The chapters that follow promote conceptual understanding rather than rote memorization of facts. Health applications are included throughout the book to heighten interest, deepen understanding of physiological concepts, and help students relate the material to their individual career goals. Every effort has been made to help students integrate related concepts and understand the relationships between anatomical structures and their functions.

FEATURES

❖ Proven author Stuart Fox is known for his accessible writing style and years of classroom experience.

❖ Clinical Investigation Case Studies are based on homeostasis and appear at the beginning of every chapter. These are coupled with a brief scenario that describes what happens if homeostasis fails.

❖ Clinical Investigation Clues throughout the rest of the chapter point out material relevant to the initial case study, increasing comprehension through application.

❖ Select “Pyramid Paragraphs” alert students that the information about to be presented is a key building block or fundamental concept that future physiological topics will be built upon.

❖ A special “Chemistry Refresher” in Chapter 1 allows students with prior knowledge to review chemistry basics; students with no chemistry prerequisite can read the entire chapter.

❖ “Before You Read On” questions test comprehension after major sections of the chapter text.

❖ “Clinical Applications” boxes emphasize relevance of chapter topics via clinical examples.

❖ Readings entitled “Physiology in Health and Disease” build on chapter content and offer more in-depth clinical detail.

❖ “FYI” footnotes engage student interest and present interesting facts connected to chapter content.

CONTENTS

1 The Study of Body Function
2 Chemical Composition of the Body
3 Cell Structure and Genetic Control
4 Enzymes and Energy
5 Cell Respiration and Metabolism
6 Interactions Between Cells and the Extracellular Environment
7 The Nervous System: Neurons and Synapses
8 The Central Nervous System
9 The Autonomic Nervous System
10 Sensory Physiology
11 Endocrine Glands: Secretion and Action of Hormones
12 Muscle: Mechanisms of Contraction and Neural Control
13 Blood, Heart and Circulation
14 Cardio Output, Blood Flow, and Blood Pressure
15 The Immune System
16 Respiratory Physiology
17 Physiology of the Kidneys
18 The Digestive System
19 Regulation of Metabolism
20 Reproduction
End-of-chapter review questions build in complexity based on Bloom’s taxonomy.

“Physiology in Balance” pages close every chapter and illustrate how the chapter relates to other chapters, emphasizing once again the importance of homeostasis.

CONTENTS
1. Introduction to Human Physiology
2. From Cells to Systems
3. Interactions Between Cells and Their Environment
4. Nervous System: Neurons and Synapses
5. Central Nervous System
6. Peripheral Nervous System
7. Sensory System
8. Endocrine System
9. Muscle Physiology
10. Blood and Circulation
11. The Immune System
12. The Lungs, Gas Transport, and Acid/Base Balance
13. The Kidneys and Urinary System
14. The Digestive System
15. The Reproductive System
Appendix 1: Calculations of chemical concentrations.
Appendix 2: Pathways of cell respiration.
Appendix 3: Mathematical concepts of selected topics in physiology.
Appendix 4: Answers to multiple choice questions.

International Edition
VANDER’S HUMAN PHYSIOLOGY
The Mechanisms of Body Function with ARIS,
11th Edition
By Eric P. Widmaier, Boston University, Hershel Raff, Medical College of Wisconsin, and Kevin T. Strang, University of Wisconsin Madison
2008 (November 2007)
ISBN: 978-0-07-128366-3 [IE]
http://www.mhhe.com/widmaier11e

Eric Widmaier (Boston University), Hershel Raff (Medical College of Wisconsin), and Kevin Strang (University of Wisconsin) have taken on the challenge of maintaining the strengths and reputation of Vander’s Human Physiology: The Mechanisms of Body Function. Moving beyond the listing of mere facts, it stressed the causal chains of events that constitute the mechanisms of body function. The fundamental purpose of this textbook is to present the principles and facts of human physiology in a format that is suitable for undergraduates regardless of academic background or field of study. Vander’s Human Physiology, eleventh edition, carries on the tradition of clarity and accuracy, while refining and updating the content to meet the needs of today’s instructors and students. The eleventh edition features a streamlined, clinically oriented focus to the study of human body systems. It has also responded to reviewer requests for more clinical applications. Chapter 19 is new and contains three complete case studies. Physiology Inquiries have also been added to many figures throughout the chapters. These critical-thinking questions are just one more opportunity to add to the student’s learning experience.

CONTENTS
Homeostasis: A Framework for Human Physiology
Chemical Composition of the Body
Cellular structure, proteins, and Metabolism
Movement of Molecules Across Cell Membranes
Control of Cells by Chemical Messengers
Neuronal Signaling and the Structure of the Nervous System
Sensory Physiology
Consciousness, the Brain, and Behavior
Muscle

Human Physiology Lab

LABORATORY GUIDE TO ACCOMPANY HUMAN PHYSIOLOGY
13th Edition

By Stuart Ira Fox

2009 (October 2008) / 448 pages

A Laboratory Guide to Human Physiology, 13th Edition, is a stand-alone human physiology manual that can be used in conjunction with any human physiology textbook. It includes a wide variety of exercises that support most areas covered in a human physiology course, allowing instructors the flexibility to choose those exercises best suited to meet their particular instructional goals. Background information that is needed to understand the principles and significance of each exercise is presented in a concise manner, so that little or no support is needed from the lecture text.

CONTENTS
1 Introduction: Structure and Physiological Control Systems
2 Cell Function and Biochemical Measurements
3 The Nervous System and Sensory Physiology
4 The Endocrine System
5 Skeletal Muscles
6 Blood: Gas Transport, Immunity, and Clotting Functions
7 The Cardiovascular System
8 Respiration and Metabolism
9 Renal Function and Homeostasis
10 Digestion and Nutrition
11 Reproductive System
Appendix 1 Basic Chemistry
Appendix 2 Sources of Equipment and Solutions
Appendix 3 Multimedia Correlation to the Laboratory Exercises
Credits Index
The Workbook to Accompany Anatomy and Physiology Revealed, Version 2 by Robert Broyles is a workbook/study guide designed to help students get the most they can out of the Anatomy and Physiology Revealed (APR), and out of their anatomy and physiology course. The Table of Contents closely follows both the new DVD set and the online adaptation, and is organized along the lines of a typical Anatomy and Physiology course. The individual exercises include art from APR and also have review questions, tables, coloring exercises, terminology quiz questions, and reminders on key content.

Features:
- A new chapter, Histology, has been added to this workbook, corresponding to the new content on histology in APR, Version 2.
- A new chapter, The Integumentary System, has been included in the workbook, correlating to the new section on the same in APR, Version 2.
- New content on articulations has been added to the chapter on the Skeletal System, reflecting similar updates to APR, Version 2.
- New content on insertions and origins has been included in The Muscular System chapter, based on new additions to APR, Version 2.
- More coloring exercises on structure are included in the workbook.
- All changes to the interface of version two of APR have consequently been noted and updated via directions to the student in the workbook.

Contents:
Chapter 1: Introduction: Becoming Familiar with Anatomy and Physiology Revealed
Chapter 2: Histology
Chapter 3: The Integumentary System
Chapter 4: The Skeletal System with Articulations
Chapter 5: The Muscular System
Chapter 6: The Nervous System
Chapter 7: The Cardiovascular System
Chapter 8: The Lymphatic System
Chapter 9: The Respiratory System
Chapter 10: The Digestive System
Chapter 11: The Urinary System
Chapter 12: The Reproductive System
Chapter 13: The Endocrine System

Laboratory Exercises in Human Physiology: A Clinical and Experimental Approach with Ph.I.L.S. 3.0, 2nd Edition by William Lutterschmidt and Deborah Lutterschmidt, Oregon State University

This stand-alone laboratory text has been developed as an introduction to fundamental concepts in physiology. The text has been designed to emphasize an experimental approach to teaching physiology and is therefore designed for a particular type of student and curriculum. Many of the exercises will help students develop their clinical knowledge of physiology, plus help them gain an appreciation for the clinical techniques as would be needed by students studying nursing, physical therapy, and other health-oriented fields. Although this laboratory text may be used independently, its presentation and formal of material will closely follow that of Vander’s Human Physiology, 11th Edition.

New to This Edition:
- Exercise on Scientific Investigation -- A Laboratory exercise on Scientific Investigation is included to introduce basic data analyses used in physiology. Each laboratory exercise is also organized in a format of a scientific publication having An Introduction, Materials and Methods, Results, and Discussion sections.
- Pre-Lab Exercises -- Each laboratory presents an introduction and a series of pre-lab exercises that students should complete before each laboratory session. These pre-lab exercises may be collected by the instructor at the beginning of the laboratory session in addition to or in lieu of a pre-lab quiz. A brief introduction to the exercise presents the essential information for understanding the physiological significance of each laboratory.
- Offering “Comparative Notes” -- The study of physiology is most intriguing to both students and instructors when particular physiological processes are placed in the broader context of physiological adaptation. Each lab exercises offers a “Comparative Note” to introduce the student to a variety of physiological solutions to the unique challenges of a species’ environment.
- Expectations Clearly Defined -- Each laboratory has a clear and consistent organization: A concise statement of Purpose, Learning Objectives, Materials List, and a brief Introduction.
- Physiology Interactive Lab Simulations (Ph.I.L.S.) 3.0 -- This laboratory text utilizes Ph.I.L.S. where no appropriate alternative to classical animal-based experiments are available.
- Lab Reports -- A laboratory report follows each exercise to examine a student’s understanding of the physiological concepts investigated in the laboratory.
- Instructor’s Manual -- An instructor’s manual is provided online at www.mhhe.com/lutterschmidt1. Simply contact your local McGraw-Hill sales representative to obtain the appropriate user name and password.
- Artwork corresponds to Vander’s Human Physiology 11th edition.

Contents:
1 Scientific Investigation
2 Homeostasis
3 Diffusion, Osmosis, and Tonicity
4 Enzyme Activity
5 Action Potentials
6 Reflexes
7 Sensory Physiology
8 Functional Anatomy of Muscle and Mechanics of Contraction
9 Physiology of Muscle Contraction
10 Endocrine Physiology
11 Cardiovascular Physiology
12 Physiology of Blood
13 Respiratory Physiology
14 Renal Physiology
15 Metabolic Rate

NEW! Expanded Quizzing Types and Options -- Physiology animation quizzes have been added to Skeletal, Muscular and Nervous Systems. In addition, the user can now select the number of questions he/she wants included in each quiz (10, 25 or ALL).

NEW! Navigation and Interface changes!

System selection menu makes it easy to hop between systems.

A new “Smart” (Google-like) search button has been added and integrated across all systems.

Tags are now color coded. All tags pertaining to the given system are one color and reference structures that are not part of that system are another color.

CONTENTS
Integumentary System
Muscular System
Nervous System
Endocrine System
Cardiovascular System
Respiratory System
Lymphatic System
Digestive System
Urinary System
Reproductive System

NEW Organ System Added -- The Integumentary System has been added to the list of organ systems included in this program. All layers of the skin will be included and this new section will also feature histology images and full coverage of the dermis, epidermis, hair shaft, specific glands, etc.

Expanded Skeletal and Joint Coverage -- The Skeletal System and Muscular System have been separated into each their own system allowing for substantially expanded information to be provided in each. The Skeletal System will now include full coverage of joint dissections. 75 NEW photos of disarticulated bones have been added.

NEW Histology Section! -- Version 2.0 of Anatomy & Physiology Revealed includes a new button for histology views to support every body system. Students can access this information by clicking on the microscope icon located on the navigation bar.
Ph.I.L.S (Physiology Interactive Lab Simulations) 3.0 offers a new interface which makes it easier to maneuver throughout the system. There are also new post lab quizzes offering more assessment opportunities! Ph.I.L.S. 3.0 is the perfect way to reinforce key physiology concepts with powerful lab experiments. Created by Dr. Phil Stephens at Villanova University, this program offers 37 laboratory simulations that may be used to supplement or substitute for wet labs. All 37 labs are self-contained experiments - no lengthy instruction manual required. Users can adjust variables, view outcomes, make predictions, draw conclusions, and print lab reports. This easy-to-use software offers the flexibility to change the parameters of the lab experiment - there is no limit!

CONTENTS

Osmosis and Diffusion
1. Varying Extracellular Concentration
Metabolism
2. Size and Basal Metabolic Rate
3. Cyanide and Electron Transport
Skeletal Muscle Function
4. Stimulus Dependent Force Generation
5. The Length-Tension Relationship
6. Principles of Summation and Tetanus
7. EMG and Twitch Amplitude
Resting Potentials
8. Resting Potential and External
Potassium Concentration
9. Resting Potential and External
Sodium Concentration
Action Potentials
10. The Compound Action Potential
11. Conduction Velocity and Temperature
12. Action Potentials and Refractory Periods
13. Measuring Ion Currents
Synaptic Potentials
14. Facilitation & Depression
15. Temporal Summation of EPSPs
16. Spatial Summation of EPSPs
Endocrine Function
17. Thyroid Gland and Metabolic Rate
Frog Heart Function
18. Thyroid and Chemical Effects
19. Refractory Period of the Heart
20. Starling’s Law of the Heart
21. Heart Block
ECG and Heart Function
22. ECG and Exercise
23. The Meaning of Heart Sounds
24. ECG and Finger Pulse
25. Electrical Axis of the Heart
26. ECG and Heart Block
27. Abnormal ECGs
Circulation
28. Cooling and Peripheral Blood Flow
29. Blood Pressure and Gravity
30. Blood Pressure and Body Position
Blood
31. pH & Hb-oxygen Binding
32. DPG & Hb-oxygen Binding
Respiration
33. Altering Body Position
34. Altering Airway Volume
35. Exercise-Induced Changes
36. Deep Breathing and Cardiac Function
Digestion
37. Glucose Transport

Histology

International Edition

BASIC HISTOLOGY
Text & Atlas, 11th Edition
By Luiz Carlos Junqueira and Jose Carneiro of University of San Paulo, Brazil
2005 / 544 pages
ISBN: 978-0-07-111888-0 [IE with CD]
(A Professional Reference Title)

CONTENTS

1. Histology & Its Methods of Study
2. The Cytoplasm
3. The Cell Nucleus
4. Epithelial Tissue
5. Connective Tissue
6. Adipose Tissue
7. Cartilage
8. Bone
9. Nerve Tissue & the Nervous System
10. Muscle Tissue
11. The Circulatory System
12. Blood Cells
13. Hematopoiesis
14. The Immune System & Lymphoid Organs
15. Digestive Tract
16. Organs Associated with the Digestive Tract
17. The Respiratory System
18. Skin
19. The Urinary System
20. Hypophysis
21. Adrenals, Islets of Langerhans, Thyroid, Parathyroids, & Pineal Gland
22. The Male Reproductive System
23. The Female Reproductive System
24. Photoreceptor & Audioreceptor Systems
Pathophysiology

PATHOPHYSIOLOGY
Concepts and Applications for Health Care Professionals, 3rd Edition
By Thomas J Nowak and A Gordon Handford of British Columbia Institute of Tech.
2004 / 752 pages

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Part 1 Foundation Concepts of Pathophysiology
Chapter 1 Cell Injury
Chapter 2 Inflammation
Chapter 3 Fever
Chapter 4 Healing
Chapter 5 Disease of Immunity
Chapter 6 Neoplasia
Part 2 Systemic Pathophysiology
Chapter 7 Blood Disorders
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Chapter 9 Vascular Disorders
Chapter 10 Cardiac Pathophysiology
Chapter 11 Circulatory Shock
Chapter 12 Respiratory Pathophysiology
Chapter 13 Gastrointestinal Pathophysiology
Chapter 14 Hepatobiliary and Pancreatic Pathophysiology
Chapter 15 Renal Pathophysiology
Chapter 16 Fluid and Electrolyte Imbalances
Chapter 17 Endocrine Pathophysiology
Chapter 18 Skeletal and Muscular Pathophysiology
Chapter 19 Reproductive Pathophysiology
Chapter 20 Disorders of Central Nervous System Development, Vascular Support, and Protection
Chapter 21 Disorders of Movement, Sensation, and Mental Function
Chapter 22 Seizures and Epilepsy
Chapter 23 Pain and Pain Management
Chapter 24 Trauma

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**NEW**

**THE LIVING WORLD**

*6th Edition*

By George B Johnson and Jonathan Losos, Washington University-St Louis

2010 (January 2009) / 832 pages
ISBN: 978-0-07-728008-6
ISBN: 978-0-07-016777-3 [IE]

The Living World is often considered a student favorite. George Johnson has written this non-majors textbook from the ground up to be an engaging and accessible learning tool with an emphasis on "how things work and why things happen the way they do". The Living World focuses on concepts rather than terminology and technical information, and features a straightforward, clear writing style and a wide variety of media assets to enhance the content of the textbook.

**NEW TO THIS EDITION**

- **Art Tie-Ins** -- Throughout the text, descriptions of the art have been incorporated into the textual discussion, encouraging the students to look at the art as they are reading the textual descriptions. In many cases, the artwork has been revised to make these rat tie-ins in the text clearer and more meaningful. A numbering system has been placed within the figures allowing the text to guide the student through particular areas of a figure.
- **Inquiry and Analysis** -- This new feature appears at the end of all chapters and is intended to help students with developing their skills in analyzing and interpreting data.
- The author provides a 2-page discussion on the presentation of data in Chapter 1, introducing the students to the concepts of variables, relationships between variables, and presentation of data in various types of graphs. To reinforce this concept, the Inquiry and Analysis sections present the student with experimental data and help them analyze the data with a set of questions that walks them through the data.
- **New Boxed Readings!** -- The addition of boxes readings in the previous edition (i.e. Author's Corner, Science in Action and A Closer Look) were very well received, so additional topics have been added.
- **UPDATED TEXT WEBSITE!** -- McGraw-Hill's ARIS - Assessment, Review, and Instruction System for The Living World, 5/e is a complete electronic homework and course management system. 

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Essentials of Biology is an introductory biology text for non-major students that combines Dr. Sylvia Mader’s superb and accessible writing style with clear visuals, a comprehensive learning system, and abundant supplements. Essentials of Biology explains the principles of biology clearly and illustrates them in a captivating, easy-to-understand manner. It emphasizes the relevance of biology to students’ lives within a framework of biodiversity and is organized around the major concepts of biology—cells theory, gene theory, evolution, the theory of homeostasis, and ecosystems. The three key features of Essentials of Biology include:

1. Dr. Sylvia Mader’s succinct, precise writing style. Sylvia’s writing is what has earned her a reputation as one of the most successful introductory biology textbook author ever, and it is what will be most compelling in this text.

2. A comprehensive learning system to help students get the most out of each chapter’s text content and an incredible instructional visual program.

3. Our package would not be complete without our robust media technology package with quality animations, digitized videos, OLC, and student interactive CD-ROM.

Each chapter features numerous pedagogical tools that are carefully developed to help students grasp challenging concepts. These include:

- A numbered outline at the beginning of each chapter with accompanying concept statements for the main topics in each chapter.

- Check Your Progress questions and answers at the end of each major heading within the chapter to help students assess their understanding of the previous section.

- The boldface terms in each chapter are page referenced in an Understanding the Terms list at the end of the chapter, and a matching exercise allows students to test their knowledge of the terms.

- A Thinking Scientifically section at the end of each chapter gives students the opportunity to use critical thinking skills to respond to scientific questions.

- The Bioethical Issue at the end of each chapter briefly discusses a controversial issue confronting society and poses questions to help students fully consider the issue and arrive at an informed opinion.

- Feature: Dynamic Art Program. The art in Essentials of Biology is presented in several different formats: Multilevel perspective art that provides macroscopic and microscopic views to help orient students; combination art that pairs the clarity of line drawings with the realism of micrographs; and process art that breaks down complex processes into smaller steps. In addition, consistent use of color throughout the entire art program helps students focus on the content rather than being distracted by the color.

- Applications to Real Life Each chapter opens with several captivating photos and an accompanying brief vignette that relates to students’ lives.

- Bioethical Issues The Bioethical Issue at the end of each chapter briefly discusses a controversial issue confronting society and poses questions to help students fully consider the issue and arrive at an opinion.

- Short, cost efficient paperback text

- Outstanding media study tools for students.

- The Online Learning Center (OLC) provides study aids such as chapter quizzes, art exercises, flashcards, case studies, and access to an online tutor.

- The quizzes and other tutorial exercises from the OLC, as well as animations of key biological processes, are on the Student Interactive CD.

NEW TO THIS EDITION

- THE AUTHOR STORY: Sylvia Mader is the subject matter expert and learning system architect in one. Dr. Mader represents the student by paging the book and striking the proper balance of art, photo, text, and application. • Sylvia has taught millions of non-majors students the language of biology. • Her teaching experience at Mass Bay CC is what led Sylvia to making the time to design her text layout specifically to the non-majors market.

- MADER HALLMARK WRITING STYLE: Each chapter features numerous learning aids that are carefully developed to help students grasp challenging concepts. Examples include:

  - A numbered outline at the beginning of each chapter with accompanying concept statements for the main topics in each chapter.

  - Check Your Progress questions and answers at the end of each major heading within the chapter to help students assess their understanding of the previous section.

  - Testing Yourself questions at the end of the chapter to help students prepare for the test.

  - The boldface terms in each chapter are page referenced in an Understanding the Terms list at the end of the chapter, and a matching exercise allows students to test their knowledge of the terms.

  - A Thinking Scientifically section at the end of each chapter gives students the opportunity to use critical thinking skills to respond to scientific questions.

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  - The quizzes and other tutorial exercises from the OLC, as well as animations of key biological processes, are on the Student Interactive CD.
Four to emphasize the relationship between these two main subject areas. The new, 13th edition is the latest and most exciting revision of a respected introductory biology text written by authors who know how to reach students through engaging writing, interesting issues and applications, and accessible level. Instructors will appreciate the book’s scientific accuracy, complete coverage and extensive supplement package.

NEW TO THIS EDITION

✓ McGraw-Hill’s ARIS – Assessment, Review, and Instruction System is a complete, online tutorial, electronic homework, and course management system, designed for greater ease of use than any other system available. For students, ARIS contains self-study tools such as animations, interactive quizzes, and more. This program enables students to complete their homework online, as assigned by their instructors. ARIS provides all instructor resources online, as well provides the ability to create or edit questions from the question bank, import your own content, and automatically grade and report easy-to-assign homework, quizzing, and testing. Go to www.aris.mhhe.com to learn more.

✓ Presentation Center - Build instructional materials wherever, whenever, and however you want! Presentation Center is an online digital library containing assets such as photos, artwork, animations, PowerPoint, and other types of media that can be used to create customized lectures, visually enhanced tests and quizzes, compelling course websites, or attractive printed support materials. Access to your book, access to all books! This ever-growing resource gives instructors the power to utilize assets specific to their adopted textbook as well as content from other McGraw-Hill books in the library. Presentation Center’s dynamic search engine allows you to explore by discipline, course, textbook chapter, asset type, or keyword. Simply browse, select, and download the files you need to build engaging course materials. All assets are copyrighted by McGraw-Hill Higher Education but can be used by instructors for classroom purposes.

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CONCEPTS IN BIOLOGY

13th Edition

By Eldon Enger, Frederick C Ross and David Bailey of Delta College

2009 (January 2008)
ISBN: 978-0-07-128789-0 [IE]
http://www.mhhe.com/enger13e

Enger/Ross/Bailey: Concepts in Biology is a relatively brief introductory general biology text written for students with no previous science background. The authors strive to use the most accessible vocabulary and writing style possible while still maintaining scientific accuracy. The text covers all the main areas of study in biology from cells through ecosystems. Evolution and ecology coverage are combined in Part Four to emphasize the relationship between these two main subject areas.
Content: This new text offers a modern approach to genetics and comprehensive units on evolution and biological diversity. Unit 4 includes a unique feature, “Focus on Model Organisms,” that are frequently used in biological research.

Ancillary Program. The instructor and student supplements package will be in this non-majors market. You will find all illustrations (over 500) in the transparency set, all art and photographs from the text on the Instructors Presentation CD-ROM, over 300 life science animations for classroom presentation, Active Art, Animations developed from text specific illustrations, Student and Instructor Online Learning Center and a Course Solutions staff who can help you pull it all together.

Chapter by Chapter color customization - Professors now have the option to select only the chapters they cover in lecture and lab allowing students savings in book costs.

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FEATURES

Marielle Hoefnagels is an assistant professor on the faculty of the departments of Botany/Microbiology and Zoology at The University of Oklahoma. She received her Ph.D in plant pathology from Oregon State University in 1997. She is an award-winning teacher.

Investigating Life: each chapter’s capstone concept focuses on a scientific study that shed light on an evolutionary topic. In each case, the emphasis is on how scientists developed and tested a specific hypothesis. Often illustrating the work of global teams of researchers, these reinforce the connections between multiple fields of biology.

Beautiful color-coordinated art and photo program, developed with the purpose of addressing student learning styles. Each art figure has been thoroughly analyzed by the development team, our faculty consultant group, and by the author.
Instructors consistently ask for a textbook that helps students understand the relationships between the main concepts of biology, so they are not learning facts about biology in isolation. Mader’s Concepts of Biology was developed to fill this void. Organized around the main themes of biology, Concepts of Biology guides students to think conceptually about biology and the world around them. Just as the levels of biological organization flow from one level to the next, themes and topics in Concepts of Biology are tied to one another throughout the chapter, and between the chapters and parts. Combined with Dr. Mader’s hallmark writing style, exceptional art program, and pedagogical framework, difficult concepts become easier to understand and visualize, allowing students to focus on understanding how the concepts are related.

**FEATURES**

- Relationships Between Concepts Are Emphasized. The content in Mader’s Concepts of Biology is organized around the main themes of biology (Cells, Genes, Evolution, Homeostasis, and Ecology), and relationships among the concepts are highlighted in several key ways: careful transitions between the sections, chapters, and parts; the Connecting the Concepts feature at the end of each chapter that ties together the concepts of the chapter and explains how they relate to the concepts of the next chapter; and the Biological Viewpoints feature at the end of each Part that gives students a take-home message about the major concepts of the Part.

- Learning System. The pedagogical tools in Concepts of Biology were developed to help students organize the content and to further the goal of showing relationships among concepts. A short reading opens the chapter and engages students with interesting information that they may not readily know. The information is tied to the concepts that will be covered in the chapter. Learning Outcomes give students a snapshot of the key concepts they will need to understand, and the outcomes are referred to throughout the chapter. Within the chapter, full-phrase headings are used to clearly capture the main concepts. An introduction at the beginning of each main section orients students to the material that follows. Check Your Progress questions appear at the end of each section so students can self-assess how well they understood the material, and when effective, the questions relate back to the chapter-opening reading to help students relate the concepts to an example. Each chapter ends with an illustrated, bulleted summary, and review questions. The review questions include multiple-choice questions and open-ended, critical thinking questions organized by the main headings of the chapter to help students more efficiently organize their study.

- Relevancy. Two types of readings appear periodically in each chapter—How Biology Impacts Our Lives and How Science Progresses—to present concepts in the context of real-life events. In addition, analogies, a strength of Dr. Mader’s writing style, aid students in understanding difficult concepts.

- Writing Style. Continuing with the Mader tradition, reviewers tout the writing style of Concepts of Biology as logical, easy to read, and at a level appropriate to the non-major student.

- Art Program. The artwork in Mader’s Concepts of Biology is dynamic and dimensional to engage students. Some of the key features include: clarity and effectiveness of presentation, consistent use of color, inclusion of figures with multi-level perspective (macroscopic to microscopic), use of process figures to break down complex processes, and placement of all art and photos on the same page as the associated text.

- Media: Teaching and Learning with Technology. Mader’s Concepts of Biology is accompanied by a vast array of electronic teaching and learning tools, including animations and videos with quizzes, pre-tests, practice quizzes, post-tests, and on-line labs. The ARIS website for Concepts of Biology is organized by the main headings in the textbook to further help students build upon the learning outcomes in the textbook and assess performance. A vast array of presentation and course management tools are also provided for use by instructors to enhance their lectures and manage their classrooms more effectively. Finally, we at McGraw-Hill are committed to offering electronic book and customized print options to best fit your needs.

- Full-Color Customization. Professors have the option of creating a customized version of the text by selecting only the chapters they cover in lecture, providing students with significant savings in book costs. Customization can occur in two ways: -- Chapter-by-chapter color customized printed book or a full-color Primis eBook.

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http://www.mhhe.com/maderconcepts

PREVIOUS PAGE

NEW
### International Edition

**ESSENTIALS OF THE LIVING WORLD**  
2nd Edition  
*By George Johnson and Jonathan Losos of Washington University - St Louis*  
2008 (October 2006)  
ISBN: 978-0-07-330935-4  
ISBN: 978-0-07-110211-7 [IE]

http://aris.mhhe.com

Cutting edge biological concepts delivered with a greater emphasis on evolution and a logical use of analogies. This textbook was written from the ground up to be an engaging and accessible learning tool with an emphasis on "how things work and why things happen the way they do". This Essentials textbook features a straightforward, clear writing style and a wide variety of media assets to enhance the content of the textbook. The strength of the second edition is the integration of many tools that are designed to inspire both students and instructors. The multi-media package for the new edition stretches students beyond the confines of the traditional textbook to include high interest video clips and animations of key biological concepts.

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Presson/Jenner: Biology: Dimensions of Life, 1e is a one-semester biology text with an engaging, conversational style which encourages basic understanding of biology, issues, and applications leading students to a greater awareness of how they interact with the world around them. The goal of this text is to help students understand how biology relates to their lives and why they should develop a desire to obtain knowledge about science and biological issues.

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Chapter 29: Human Impact Upon the Earth (Applications chapter)
LABORATORY MANUAL TO ACCOMPANY CONCEPTS IN BIOLOGY
13th Edition

By Eldon Enger and Frederick Ross of Delta College

2009 (February 2008) / 320 pages
ISBN: 978-0-07-337792-6

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LAB MANUÁL TO ACCOMPANY CONCEPTS OF BIOLOGY

By Sylvia S Mader

2009 (April 2008) / 392 pages

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LABORATORY MANUAL TO ACCOMPANY
INQUIRY INTO LIFE
12th Edition
By Sylvia Mader
2008 (April 2007) / 512 pages

The laboratory exercises in this manual are coordinated with Inquiry into Life. The text emphasizes how we can apply biological knowledge to our own lives and to our relationships with other organisms. Although each laboratory is referenced to the appropriate chapter in Inquiry into Life, this manual may be used in coordination with other general biology texts. This manual can be adapted to a variety of course orientations and designs. There are a sufficient number of laboratories to permit a choice of activities over the length of the course. Many activities may be performed as demonstrations rather than as student activities, thereby shortening the time required to cover a particular concept.

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General Biology
Non Majors & Majors Combined

Textbook

NEW

International Edition

BIOLOGY
10th Edition
By Sylvia S. Mader

2010 (January 2009)
ISBN: 978-0-07-727433-7
ISBN: 978-0-07-128844-6 (IE)
http://arisd.mhhe.com

Biology is a comprehensive introductory biology textbook for non-majors or mixed-majors courses that covers biology in a traditional order from the structure and function of the cell to the organization of the biosphere. The book, which centers on the evolution and diversity of organisms, is appropriate for a one- or two-semester course. It’s no wonder that Sylvia Mader’s Biology continues to be a text that’s appreciated as much by instructors as it is by the students who use it. The ninth edition is the epitome of Mader’s expertise: Its concise, precise writing uses an economy of words to present the material as succinctly and clearly as possible, thereby enabling students -- even non-majors -- to understand the concepts without necessarily asking the instructor to explain further.

NEW TO THIS EDITION

- THE MADER AUTHOR STORY: Sylvia Mader is the subject matter expert and learning system architect in one. Dr. Mader represents the student by paging the book and striking the proper balance of art, photo, text, and application. • Sylvia has taught millions of non-majors students the language of biology. • Her teaching experience at Mass Bay CC is what led Sylvia to making the time to design her text layout specifically to the non-majors market.
- Phonetic pronunciations have been added to the Glossary.
- KEY CONTENT UPDATES - These are based on reviewer suggestions and biological discoveries: Overview of Change to Biology, Tenth Edition
  - Visuals: The brilliant visual program of the previous edition is enhanced even more by the addition many new micrographs and innovative page layouts.
  - Cellular Biology: Cell signaling receives expanded coverage as a mechanism of cellular metabolism and cell division control.
  - Genetics: Reorganization of the genetics chapters results in increased genome coverage including the role of small RNA molecules in regulation
  - Systematics: Cladistics is better explained and new evolutionary trees are presented for protists, plants, and animals.
  - Evolution: A new chapter “Speciation and Microevolution” points to the possible role of Hox genes in punctuated evolution.
  - Plant Evolution: A reorganization of chapter 23 better describes the evolution of plants from an aquatic green algal ancestor.
Animal Evolution: Reorganization of part VI results in two new animal diversity chapters: the invertebrates and the vertebrates.

- Approximately 70 animations of key biological processes accompany Biology 10e. Approximately 50 of these animations are available in a Spanish version.
- McGraw-Hill's Biology Digitized Video Clips DVD. Licensed from some of the highest-quality science video producers in the world, these brief segments range from 15 seconds to two minutes in length and cover all areas of general biology from cells to ecosystems.
- All text, artwork, and photos necessary to understand a particular concept (e.g., prokaryotic vs. eukaryotic replication) appear either on the same page or facing pages.

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CHEMISTRY, CELL BIOLOGY AND GENETICS
Volume 1
By Robert J Brooker, University of Minnesota-Minneapolis
2008 / 480 pages
ISBN: 978-0-07-335332-6
http://www.brookerbiology.com

This Volume of BIOLOGY covers Chemistry, Cell Biology, and Genetics. The Brooker et. al text features an evolutionary focus with an emphasis on scientific inquiry.

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21 Genomes, Proteomes, and Bioinformatics

International Edition

LIFE
6th Edition
By Ricki Lewis, SUNY at Albany, Bruce Parker, Utah Valley State College-Orem, Douglas Gaffin and Marielle Hoefnagels of University of Oklahoma-Norman
2007 (Jan 2006) / 1024 pages
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http://www.mhhe.com/life6

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By Stephen Bernstein and Ruth Bernstein of University of Colorado at Boulder
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A Schaum's Publication
(International Edition is not for sale in Japan)

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Chemistry of Life.
Molecular Genetics.
Inheritance.
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Diversity of Life.
History of Life: Major Patterns.
Plants: Form and Function.
Animals: Form and Function.
Ecology.

General Biology Majors

Textbook

International Edition

BIOLOGY
By Robert Brooker, University of Minnesota-Minneapolis, Eric Widmaier, Boston University, Linda Graham, University of Wisconsin-Madison and Peter Stiling, University of South Florida-Tampa
2008 (March 2007) / 1488 pages
ISBN: 978-0-07-326807-1
http://aris.mhhe.com
www.brookerbiology.com

Coming in January 2007, McGraw-Hill will publish the most carefully developed NEW biology textbook in the history of our company. Brooker et al Biology combines the talent of four active researchers and experienced textbook authors to create a comprehensive modern text featuring an evolutionary focus with an emphasis on scientific inquiry.--Four active researchers--Four experienced text authors--Comprehensive and modern approach--Evolutionary focus--Emphasizes scientific inquiry--Realistic, integrated (3-D) visual program

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BIOLOGY LABORATORY MANUAL
8th Edition
By Darrell S Vodopich, Baylor University and Randy Moore, University of Minnesota-Minneapolis
2008 (February 2007) / 576 pages
ISBN: 978-0-07-299522-0

This laboratory manual is designed for an introductory majors biology course with a broad survey of basic laboratory techniques. The experiments and procedures are simple, safe, easy to perform, and especially appropriate for large classes. Few experiments require a second class-meeting to complete the procedure. Each exercise includes many photographs, traditional topics, and experiments that help students learn about life. Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students, the style of the instructor, and the facilities available.

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Textbook

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HUMAN BIOLOGY
11th Edition

By Sylvia S Mader

2010 (February 2009) / 608 pages
ISBN: 978-0-07-728011-6
ISBN: 978-0-07-016778-0 [IE]

http://aris.mhhe.com

NEW TO THIS EDITION

• THE MADER AUTHOR STORY-• Sylvia Mader is the subject matter expert and learning system architect in one. Dr. Mader represents the student by paging the book and striking the proper balance of art, photo, text, and application. • Sylvia has taught millions of non-majors students the language of biology. • Her teaching experience at Mass Bay CC is what led Sylvia to making the time to design her text layout specifically to the non-majors market.

• HALLMARK WRITING STYLE Dr. Sylvia Mader’s succinct, precise writing style. Sylvia’s writing is what has earned her a reputation as one of the most successful introductory biology textbook authors ever, and it is the most compelling feature of this text.

• Updated Genetics Coverage -- The entire genetics chapter has been updated to include the most recent information possible. This edition now combines genetics and genetic counseling topics in one chapter.

• Human Disease Coverage Expanded -- Human Disease coverage has been enhanced and is covered as each system is discussed. Additionally each of these chapters will have a Disease and Disorder section.

• A.R.I.S. -- McGraw-Hill’s ARIS - Assessment, Review, and Instruction System for Human Biology, 10/e is a complete electronic homework and course management system. Instructors can create and share course materials and assignments with colleagues with a few clicks of the mouse. Instructors can edit questions and algorithms, import their own content, and create announcements and due dates for assignments. ARIS has automatic grading and reporting of easy-to-assign algorithmically generated homework, quizzing, and testing. Once a student is registered in the course, all student activity within McGraw-Hill’s ARIS is automatically recorded and available to the instructor through a fully integrated grade book that can be downloaded to Excel. Contact your local McGraw-Hill Publisher’s representative for more information on getting started with ARIS.

• New Chapter Openers Throughout -- Each chapter begins with an engaging, real-life vignette that captures the student’s attention. The vignette is referenced throughout the chapter with connections/applications woven into the chapter and finally at the end of the chapter students are asked to consider the vignette in light of the chapter concepts by discussing critical-thinking questions related to the chapter opener.

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By Sylvia Mader

2010 (February 2009) / 320 pages
ISBN: 978-0-07-723513-0

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Biology

Supplements

SCHAUM'S A-Z BIOLOGY
By Bill Indge
2003 / 320 pages
A Schaum Professional Publication

Schaum's A-Z handbooks make excellent complements to course textbooks and test preparation guides. Ideal for ambitious high school seniors—especially AP students—and college freshmen, they feature concise, thoroughly cross-referenced definitions of hundreds of key terms and phrases that help students quickly break through the jargon barrier. Clear explanations of key concepts, supplemented with lucid illustrations, help build mastery of theory and provide a ready reference to supplement class work.

- Each entry begins with a clear, one-sentence definition and is followed by an explanation and examples.
- A-to-Z format for ready reference
- Clear definitions and explanations, cross-referenced and enhanced with numerous worked examples and illustrations
- Extended explanations of more important concepts
- Review lists of entries that relate to main topics in the Appendix aid review

SCHAUM'S OUTLINE OF BIOLOGY
2nd Edition
By George Fried, Brooklyn College
1999 / 455 pages
ISBN: 978-0-07-022405-6
A Schaum Publication

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Part II: Biology of the Cell.
Part III: Genetics and Inheritance.
Part IV: Plant Biology.
Part V: Animal Biology.
Part VI: Evolution and Ecology.
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SCHAUM'S EASY OUTLINE OF BIOLOGY
By George H. Fried and George J. Hademenos
2001 / 154 pages
ISBN: 978-0-07-136971-8
A Schaum Professional Publication

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appreciate the beauty and elegance of the cell, while at the same time pathogenesis. must be linked to genetics, physiology to diversity, and ecology to polymicrobial diseases (chapter 33) to emphasize that evolution in chapters 6, 13, and 29), microbial evolution (chapter 17), and begin to appreciate the tremendous variation in the microbial world. possible, discuss diverse microbial species so that students can chapter 1 with a discussion of the universal tree of life and whenever in microbial genetics, physiology, or pathogenesis, Principles strives ecology are no longer subdisciplines to be ignored by those interested ©™ microbes.

and pathogens can be readily compared to phylogenetically similar microbes.

**FEATURES**

- Unique to Principles is the inclusion of microbial pathogens into the diversity chapters (chapters 19-24). Thus when students read about the metabolic and genetic diversity of each bacterial, protist, and viral taxon, they are also presented with the important pathogens. In this way, the physiological adaptations that make a given organism successful can be immediately related to its role as a pathogen and pathogens can be readily compared to phylogenetically similar microbes.

- Thematic Integration. Because microbial evolution, diversity, and ecology are no longer subdisciplines to be ignored by those interested in microbial genetics, physiology, or pathogenesis, Principles strives to integrate these themes throughout the text. The authors begin in chapter 1 with a discussion of the universal tree of life and whenever possible, discuss diverse microbial species so that students can begin to appreciate the tremendous variation in the microbial world. In addition, Principles uses the topics of intercellular communication (chapters 6 and 13), biofilms (throughout the text, but specifically in chapters 6, 13, and 29), microbial evolution (chapter 17), and polymicrobial diseases (chapter 33) to emphasize that evolution must be linked to genetics, physiology to diversity, and ecology to pathogenesis.

- Instructional Art. Three-dimensional renderings help the student appreciate the beauty and elegance of the cell, while at the same time make the material more comprehensible. The authors also believe that figures should be content-rich, not just pretty to look at. Therefore, the art program also includes pedagogical features such as concept maps and annotation of key pathways and processes.

- Learning Tools Throughout the Text. Each chapter begins with a glossary—a list of key terms discussed in the chapter. Each is succinctly defined and page numbers referenced.

- Cross-Referenced Notes In-text references with icons refer students to other parts of the book to review.

- Review and Reflection Questions within Narrative Review questions throughout each chapter assist students in mastering section concepts before moving on to other topics.

- Special Interest Essays Interesting essays on relevant topics are included in most chapters. Readings are organized into these topics: Historical Highlights, Techniques & Applications, Microbial Diversity & Ecology, Disease, and Microbial Tidbits.

- End-of-Chapter Material End-of-chapter summaries are organized by numbered headings and provide a snapshot of important chapter concepts. Critical Thinking Questions supplement the questions for review and reflection found throughout each chapter; they are designed to stimulate analytical problem solving skills.

- McGraw-Hill’s ARIS. ARIS is a complete electronic homework and course management system, designed for greater ease of use than any other system available. Instructors can create and share course materials and assignments with colleagues with a few clicks of the mouse. Instructors can edit questions, import their own content, and create announcements and due dates for assignments. ARIS has automatic grading and reporting of easy-to-assign homework, quizzing, and testing. Once a student is registered in the course, all student activity within McGraw-Hill’s ARIS is automatically recorded and available to the instructor through a fully integrated graduate grade book that can be downloaded to Excel.

- McGraw-Hill Presentation Center. ARIS Presentation Center is an online digital library containing assets such as photos, artwork, PowerPoints, animations, and other media types that can be used to create customized lectures, visually enhanced tests and quizzes, compelling course websites, or attractive printed support materials. Accessed from the instructor side of the textbook’s ARIS website, Presentation Center’s dynamic search engine allows instructors to explore by discipline, course, textbook chapter, asset type, or keyword. Simply browse, select, and download the files you need to build engaging course materials. All assets are copyright McGraw-Hill Higher Education but can be used by instructors for classroom purposes.

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Chapter 5: Viruses and Other Cellular Agents

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Chapter 8: Control of Microorganisms by Physical and Chemical Agents

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Chapter 10: Catabolism: Energy Release and Conservation

Chapter 11: Anabolism: The Use of Energy in Biosynthesis

**Part IV: Microbial Molecular Biology and Genetics**

Chapter 12: Gene Structure, Replication, and Expression

Chapter 13: Regulation of Gene Expression

Chapter 14: Mechanisms of Genetic Variation

Chapter 15: Microbial Genomics
New end-of-chapter material has been added to help reinforce content and add the latest research:

- Visual Understanding Questions use images from previous chapters to ask integrated learning questions.
- Concept Mapping exercises help students learn and retain material.
- True-False questions are now included in the end-of-chapter study tools, in addition to multiple choice and “Writing to Learn” questions.
- More Internet Search Topics finish up each chapter to offer students additional reliable, informational sites for research on chapter content.

- Twenty-five new animations have been developed on key microbiological processes, bringing the total number of animations available to instructors and students to over 100. Students can now quiz themselves over each animation, receive automatic feedback on correct/incorrect answers, and then submit their answers to their instructors for grading.
- McGraw-Hill Presentation Center, ARIS Presentation Center is an online digital library containing assets such as photos, artwork, PowerPoints, animations, and other media types that can be used to create customized lectures, visually enhanced tests and quizzes, compelling course websites, or attractive printed support materials. Accessed from the instructor side of the textbook’s ARIS website, Presentation Center’s dynamic search engine allows instructors to explore by discipline, course, textbook chapter, asset type, or keyword. Simply browse, select, and download the files you need to build engaging course materials. All assets are copyright McGraw-Hill Higher Education but can be used by instructors for classroom purposes.

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Chapter 23 Infectious Diseases Affecting the Genitourinary System
Chapter 24 Environmental Microbiology
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Microbiology: A Human Perspective, 6th Edition
By Eugene W Nester, Denise G Anderson and C Evans Roberts Jr of University of Washington and Martha T Nester

2009 (September 2008) / 928 pages
http://www.mhhe.com/nester6

Appropriate for the non-major/allied health student, this authoritative text carefully explains the fundamentals of microbiology, providing a general overview of the principles followed by more detailed explanations. With its clear and concise writing style, Microbiology: A Human Perspective offers modern coverage on such topics as genomics, biofilms, and quorum sensing. A body systems approach is used in the coverage of diseases.

NEW TO THIS EDITION
- Chapter 17, “Host-Microbe Interactions”, has been moved so that it now immediately follows the chapters on innate and adaptive immunity. This makes it easier for instructors to present a trilogy of topics – Part I. “The Immune Wars” (innate and adaptive immunity); Part II. “The Microbes Fight Back” (pathogenesis); and Part III “The Return of the Humans” (vaccination, epidemiology, and antimicrobial medications).
- Chapter 22, “Respiratory System Infections”, has been moved to the first of the disease chapters. This puts the major discussion of Streptococcus pyogenes early in the infectious disease section, providing students with a solid framework to help them understand the additional coverage in subsequent chapters.
- Chapter 9, “Biotechnology and Recombinant DNA”, has been reorganized so that the techniques now directly follow the applications. A summary table was added for instructors who only want minimal coverage.
- Presentation Center - Build instructional materials wherever, whenever, and however you want! Presentation Center is an online digital library containing assets such as photos, artwork, animations, PowerPoints, and other types of media that can be used to create customized lectures, visually enhanced tests and quizzes, compelling course websites, or attractive printed support materials. Access to your book, access to all books! This ever-growing resource gives instructors the power to utilize assets specific to their adopted textbook as well as content from other McGraw-Hill books in the library. Presentation Center’s dynamic search engine allows you to explore by discipline, course, textbook chapter, asset type, or keyword. Simply browse, select, and download the files you need to build engaging course materials. All assets are copyrighted by McGraw-Hill Higher Education but can be used by instructors for classroom purposes.

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Appendix IV: Metabolic Pathways
Appendix V: Answers to Multiple Choice Questions

NEW TO THIS EDITION
- Revisions have occurred within several chapters to simplify content and add the latest research:
  - The single chapter (26) that has covered both environmental and applied microbiology has been split into two separate chapters (26 and 27). Chapter 26 focuses on ecological principles and the interactions of microbes with the environment.
The section on photosynthesis that was originally covered in chapter 26 in the section on environmental microbiology has been moved into chapter 8, along with other metabolic and bioenergy concepts.

Chapter 9 introduces some of the newer concepts in genetics that have emerged from genome analysis studies. The most significant discovery involves the role of special types of RNA in regulating genes and their expression.

The applications of regulatory RNA in biotechnology and the creation of transgenic animals have been added to Chapter 10.

To consolidate and streamline the section on chemical control of microorganisms in chapter 11, we have compiled several new tables that summarize and illustrate common applications.

Chapter 17 includes a more detailed table of specimen collection and increased coverage of PCR technology in diagnosis of infections.

Throughout the book there is much more emphasis on polymicrobial infections and biofilms.

Now that probiotics have become more widely used and understood, their coverage has been updated and enlarged in chapters 12 and 13.

The spelling of prokaryote and eukaryote and related terms has been revised to the form with a “k” instead of a “c” throughout the chapters.

- New end-of-chapter “Concept Connection” tools:
  - Visual Understanding Questions supplies a photo or a graphic that students have already seen, along with a thought-provoking question. Many of these questions use images from previous chapters and pose queries that require students to combine knowledge from the new chapter with the knowledge they already have from the previous chapter.
  - Concept Mapping Exercises ask students to organize information in more meaningful forms than just simple lists.
  - Case Files These chapter-opening, real-world scenarios help students appreciate and understand how microbiology impacts our lives on a daily bases. The solutions, or “wrap-ups” appear later in the chapter, after the necessary elements have been presented. 10 new Case Files can be found in the 7th edition, including ones on the War in Iraq, Darfur, Hurricane Katrina, and the World Trade Center.
  - Process Figures: Process Figures are now clearly defined as such and include colored steps that correlate the art to step-by-step explanations. Nearly every Process Figure has a correlating animation to it, which can be found on Talaro’s ARIS site.
  - Twenty-five new animations have been developed on key microbiological processes, bringing the total number of animations available to instructors and students to over 100. Students can now quiz themselves over each animation, receive automatic feedback on correct/incorrect answers, and then submit their answers to their instructors for grading. Special icons correlate over 100 total animations to figures in the text.
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LABORATORY APPLICATIONS IN MICROBIOLOGY
A Case Study Approach

By Barry Chess, Pasadena Area Community College

2009 (September 2008) / 576 pages
ISBN: 978-0-07-337525-0

http://www.mhhe.com/chess

Laboratory Applications in Microbiology: A Case Study Approach is designed to use real life case studies as the basis for exercises in the laboratory. This is the only microbiology lab manual focusing on this means of instruction, an approach particularly applicable to the microbiology laboratory. The author has carefully organized the exercises so that students develop a solid intellectual base beginning with a particular technique, moving through the case study, and finally applying new knowledge to unique situations beyond the case study.

FEATURES

- UNIQUE! A Case Study Approach with Real Life Examples: The first 34 exercises begin with actual cases found in the news, the CDC, New England Journal of Medicine, and many more sources. As the exercise is completed, new techniques, media, and observational tools are introduced, all with the goal of solving the issues presented in the case. No other micro lab uses this approach!
- A Thorough Compendium of Common Microbiological Methods: The final 56 exercises consist of common laboratory techniques and assays. Written to clearly guide students while also pointing out the importance of a particular technique, this portion of the manual provides detailed, well-illustrated procedures that stand alone or can be used in conjunction with the case studies in the front of the book.
- Laboratory Techniques, Reagents, and Assays sections go beyond the standard recipe, giving students thorough instruction and explanation.
- Extensive Flowcharts for Bacterial Identification: Within Exercise 34, flowcharts are used to help identify bacterial unknowns commonly seen in the microbiology lab. This exercise also serves as an introduction to the techniques section of the manual, allowing students to quickly decide which diagnostic techniques are applicable to their particular unknown culture. More extensive than any of the competitors.
- An online digital photo atlas, instructor’s manual, pre-and post-lab quizzes, and animation quitting can be found at the manual’s site www.mhhe.com/chess.

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LABORATORY MANUAL AND WORKBOOK IN MICROBIOLOGY
Applications to Patient Care, 9th Edition
By Josephine A Morello, University of Chicago, Paul A Granato, SUNY Health Science Center and Helen Eckel Mizer, Western CT State University
2008 (September 2007) / 320 pages
ISBN: 978-0-07-299575-6

This ninth edition maintains its original emphasis on the basic principles of diagnostic microbiology for students preparing to enter the allied health professions. The students are led through a series of exercises that allow them to learn basic microbiology techniques and to practice safety in the laboratory and hospital environment. It remains oriented primarily toward meeting the interests and needs of those who will be directly involved in patient care and who wish to learn how microbiological principles should be applied in the practice of their professions.

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PART 3 Diagnostic Microbiology in Action
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PART 5 Applied (Sanitary) Microbiology
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International Edition
LABORATORY EXERCISES IN ORGANISMAL AND MOLECULAR MICROBIOLOGY
By Steve K. Alexander, University of Mary Hardin Baylor, Dennis Strete, McLennan Community College and Mary Jane Niles, University of San Francisco
2004 / 480 pages

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SCHAUM’S OUTLINE OF MICROBIOLOGY
2nd Edition
By Edward Alcamo, Farmingdale State College and Jennifer M Warner
2009 (July 2009) / 464 pages
ISBN: 978-0-07-162326-1
A Schaum’s Publication

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1. Introduction to Microbiology
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Answers to Questions

STDs / AIDS

AIDS UPDATE 2009
18th Edition
By Gerald J Stine, University of North Florida
2009 (December 2008) / 512 pages
ISBN: 978-0-07-352759-8

AIDS UPDATE 2009 presents a balanced review of current research and information on HIV infection, HIV disease, and AIDS. AIDS UPDATE 2009 places discussion within a biological, medical, and social framework, helping readers more fully understand this devastating pandemic.

AIDS UPDATE 2008
17th Edition
By Gerald J Stine, University of North Florida
2009 (January 2008) / 480 pages
ISBN: 978-0-07-337528-1

http://www.mhcls.com/text-data/catalog/0073375284.mhtml

AIDS Update 2008 presents a balanced review of current research and information on HIV infection, HIV disease, and AIDS. AIDS Update 2008 places this discussion within a biological, medical, social, economic and legal framework, helping readers to more fully understand this modern-day pandemic.

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Chapter 5 The Immunology of HIV Disease/AIDS
Chapter 6 Opportunistic Infections and Cancers Associated with HIV Disease/AIDS
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Chapter 10 Prevalence of HIV Infections, AIDS Cases, and Deaths Among Select Groups in the United States and AIDS in Other Countries
Molecular Biology

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Chapter 14 AIDS and Society: Knowledge, Attitudes, and Behavior HIV/AIDS Is a Story in Our Lifetime

Summary / Review Questions

SCHAUM’S OUTLINE OF MOLECULAR BIOLOGY
By William Stansfield, California State Polytechnic University
1996 / 384 pages
ISBN: 978-0-07-060898-6
A Schaum’s Publication

CONTENTS
1. Cells
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10. Eukaryotic Cells and Their Viruses
11. Cellular Communication
12. Development in Multicellular Organisms
13. The Immune System

Developmental Biology / Embryology

ANALYSIS OF BIOLOGICAL DEVELOPMENT
By Klaud Kalthoff, University of Texas at Austin
2001 /816 pages
ISBN: 978-0-07-125356-7 [IE]

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Immunology

SCHAUM’S OUTLINE OF IMMUNOLOGY
By George Pinchuk
2002 / 304 pages
ISBN: 978-0-07-137366-1
A Schaum’s Publication

CONTENTS
1. Overview of Immunity and the Immune System
2. Cells, Tissues, and Organs of the Immune System
3. Antibodies and Antigens
4. Maturation of B Lymphocytes and Expression of Immunoglobulin Genes
5. The Major Histocompatibility Complex
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7. T-Lymphocyte Antigen Recognition and Activation
8. B-Lymphocyte Activation and Antibody Production
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10. Cytokines
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12. Effector Mechanisms of Cell-Mediated Immunity
13. Effector Mechanisms of Humoral Immunity
14. Immunity to Microbes
15. Transplantation Immunology
16. Immunity to Tumors
17. Autoimmunity and Autoimmune Diseases
18. Immunodeficiencies.

General Genetics

NEW
International Edition

GENETICS
Analysis and Principles, 3rd Edition
By Robert J Brooker, University of Minnesota--Minneapolis

2009 (January 2008)
ISBN: 978-0-07-722972-6
ISBN: 978-0-07-128764-7 [IE]
http://www.mhhe.com/brookergenetics3e

Genetics: Analysis and Principles is a one-semester, introductory genetics textbook that takes an experimental approach to understanding genetics. By weaving one or two experiments into the narrative of each chapter, students can simultaneously explore the scientific method and understand the genetic principles that have been learned from these experiments.

FEATURES
- Art Program! Every illustration has been rendered with four goals in mind:
  1. Completeness - For most figures, it should be possible to understand an experiment or genetic concept by looking at the illustration alone.
  2. Clarity - The figures have been extensively reviewed by students and instructors. This has helped avoid drawing things that may be confusing or unclear.
  3. Consistency - Recurring elements and colors have all been coordinated to provide a consistent art program.
  4. Realism - An important goal of the second edition has been to make each figure as realistic as possible. For example, when drawing macroscopic elements (e.g. fruit flies, pea plants, etc.), the illustrations have been based on real images, not on cartoon-like simplifications.
- Dynamic Media Package! Online Learning Center will contain extensive quizzing for the student, video lectures, and computer programs for genetic problem solving. Student CD-ROM will include extensive problem solving applications and interactive exercises to aid in the study of learning genetics.
- Digital Content Manager! The digital assets on this cross-platform CD-ROM are organized by chapter in an easy-to-use folder system.
  - Art Library: Full-color digital files of all illustrations in the book (659 images. These images are also pre-inserted into blank PowerPoint slides for ease of use).
  - Photo Library: Digital files of 206 instructionally significant photographs.
  - Table Library: Every table that appears in the text is provided in electronic form.
  - PowerPoint Lecture Outlines: Ready-made presentations that combine art and lecture notes are provided for each of the chapters of the text.
  - Active Art Library: Each piece of art can be broken down to its core elements, grouped or ungrouped, and edited to create customized illustrations. 100 illustrations are available in this format.
  - Animations Library: 43 full-color animations of key genetic principles.

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Solutions to even-numbered problems appear at the back of the book. Solutions to odd-numbered problems will be available on the free, password protected OLC.

Chapter Concept statements keep the focus of the text on concepts, so students don’t get lost in details. Each A head starts with a conceptual statement in the form of a complete sentence that emphasizes the key point of the material.

A unique chapter, Computer Analysis of Genetic Sequences, gives students a glance at the most modern techniques used by geneticists today.

Unifying theme - the relationship between genes and traits - appears throughout the text and reinforces the relationship between abstract concepts and concrete physical expressions. This theme is called out with blue type in several figure legends in each chapter.

Classic experiments in transmission and molecular genetics are highlighted in each chapter, with a strong emphasis on the scientific method. In each chapter 1-2 experiments are broken into five steps: Background observations, the Hypothesis, Testing the Hypothesis, the Data, and Interpreting the Data (denoted with gold bars).

Conceptual and experimental themes are used in text discussions (see Testing the Hypothesis sections in each chapter) and end-of-chapter material (both in chapter summaries and problem sets).

Problem sets are broken into three parts.
1. Conceptual questions test students’ understanding of basic genetic principles.
2. Experimental questions test their ability to analyze data, design experiments, and appreciate the relevance of experimental techniques.
3. Student discussion/collaboration questions

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Ch. 1: Overview of Genetics
Ch. 2: Mendelian Inheritance
Ch. 3: Reproduction and Chromosome Transmission
Ch. 4: Extensions of Mendelian Inheritance
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Ch. 7: Non-Mendelian Inheritance
Ch. 8: Variation in Chromosome Structure and Number
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Ch. 10: Chromosome Organization and Molecular Structure
Ch. 11: DNA Replication
Ch. 12: Gene Transcription
Ch. 13: Translation of mRNA
Ch. 14: Gene Regulation in Bacteria and Bacteriophages
Ch. 15: Gene Regulation in Eukaryotes
Ch. 16: Gene Mutation and DNA Repair
Ch. 17: Recombination and Transposition at the Molecular Level
Ch. 18: Recombinant DNA Technology
Ch. 19: Biotechnology
Ch. 20: Structural Genomics
Ch. 21: Functional Genomics, Proteomics, and Bioinformatics
Ch. 22: Medical Genetics and Cancer
Ch. 23: Developmental Genetics
Ch. 24: Quantitative Genetics
Ch. 25: Population Genetics
Ch. 26: Evolutionary Genetics

FEATURES

Innovative, Problem-Solving-Based Approach -- The author maintains the connection between basic genetic principles and their application to problems using a stepped-out system. The text also links specific portions of the text with selected end-of-chapter problems to direct the student to problems that will test their comprehension of the material they just studied.

Strong and Accessible Molecular Genetics Coverage -- Dr. Hyde discusses in a clear and basic manor, the latest information on molecular processes and new techniques.

Dynamic Illustration and Photo Program -- The art program incorporates vibrant colors and three-dimensional effects with pedagogically sound layouts that greatly assist students in visualizing and understanding difficult genetic processes.

Strong Pedagogical Framework -- A strong framework makes key concepts easier to identify. For example, all section heads will be written as concept statements.

Superior Media Package -- Introduction to Genetics offers instructors full access to textbook art, photos and tables, as well as high-quality animations and customizable PowerPoint lecture presentations. The Online Learning Center provides students with additional study tools and problem-solving exercises.

CONTENTS
1 Genetics and the Scientific Method
2 Patterns and Mechanisms of Classical Inheritance
3 Mendelian Genetics
4 Mitosis and Meiosis
5 Sex Determination and Sex Linkage
6 Modifications to Mendelian Ratios
7 Linkage and Mapping in Eukaryotes
8 Molecular Basis of Inheritance and Gene Expression
9 7 DNA Structure and Chromosome Organization
8 Changes in Chromosome Structure and Number
9 DNA Replication
Human Genetics

HUMAN GENETICS
8th Edition
By Ricki Lewis, SUNY at Albany
2008 (September 2007)
ISBN: 978-0-07-722127-0
ISBN: 978-0-07-128310-6 [IE]
http://www.mhhe.com/lewisgenetics8

Human Genetics, Eighth Edition, is a non-science majors human genetics text that clearly explains what genes are, how they function, how they interact with the environment, and how our understanding of genetics has changed since completion of the human genome project. It is a clear, modern, and exciting book for citizens who will be responsible for evaluating new medical options, new foods, and new technologies in the age of genomics.

CONTENTS
Chapter 1 Overview of Genetics
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Chapter 7 Multifactorial Traits
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Chapter 13 Chromosomes
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Chapter 15 Changing Allele Frequencies
Chapter 16 Human Ancestry and Eugenics
Chapter 17 Genetics of Immunity
Chapter 18 The Genetics of Cancer
Chapter 19 Genetic Technologies: Amplifying, Modifying, and Monitoring DNA
Chapter 20 Genetic Testing and Treatment
Chapter 21 Reproductive Technologies
Chapter 22 Genomics

Biotechnology

BIOTECHNOLOGY DEMYSTIFIED
By Sharon Walker
2007 (Sept 2006) / 320 pages

A Professional Publication

This self-teaching guide explains the basic concepts and fundamentals in all the major subtopics of biotechnology. The content advances logically from the basics of molecular and cellular biology to more complex topics such as DNA, reproductive cloning, experimental procedures, infectious diseases, immunology, the Human Genome Project, new drug discoveries, and genetic disorders.

CONTENTS
Part 1: Fundamental Topics in Molecular and Cellular Biology
Chapter 1: The Molecules of Life: The stuff you are made of
Chapter 2: The Cellular Basis of Life: What cells look like and what they do
Chapter 3: Information Flow within the Cell: Going from gene to protein
Chapter 4: DNA Replication and Cell Division: How life continues
Chapter 5: Regulation of gene expression: cells don’t express every gene they have
Chapter 6: Signal Transduction: How cells interact with what is outside

Part 2: Essential Experimental Techniques in Biotechnology
Chapter 7: Genetic Engineering: How you do something with DNA
Chapter 8: Assays for Gene Function: I made this DNA, now what?

Part 3: Advanced Topics in Biotechnology
Chapter 9: Cancer and the Cell Cycle: When good cells go bad
Chapter 10: Infectious Disease: Bacteria and viruses and prions, oh my!
Chapter 11: Immunology: How the body protects itself from invasion
Chapter 12: Genetic Disease: When good genes go bad

Part 4: Applications of Biotechnology
Chapter 13: The Human Genome Project: What it is and what it’s used for
Chapter 14: Reproductive Cloning: Understanding the controversy
Chapter 15: Genetically Modified (GM) Crops: The new way to make a better tomato
Chapter 16: Drug Discovery: The accelerated pace of finding new drugs
Chapter 17: Future Prospects for Biotechnology: Is it bright or a lack of foresight?

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## NUTRITION

### 2010

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NEW TO THIS EDITION

- Accurate, current science presented in an engaging manner. This edition continues the tradition of presenting in-depth scientific content that is reliable, accurate, and up-to-date. To enhance these strengths and promote greater student comprehension, new research findings and peer-reviewed references were incorporated and artwork was enhanced to further complement discussions. The presentation of complex concepts was scrutinized in an effort to increase clarity through the use of clear, streamlined, precise, and student-friendly language. Timely and intriguing examples, illustrative analogies, clinical insights, and historical notes were added to make the text enjoyable and interesting to students and instructors alike.

- Reorganization of table of contents.

-- Part 1, Nutrition Basics, has a new addition: Chapter 3, The Food Supply. Consumer-related issues, such as food safety, food additives, organic foods, biotechnology, and hunger draw many students to nutrition. However, numerous instructors told us they can seldom fit these chapters into their crowded course content and wanted additional assistance with. The text begins with a simple conceptual explanation of metabolic processes and logically builds into an in-depth scientific understanding of metabolic pathways. New illustrations also help guide students to develop a better understanding of this challenging topic.

- The chapters on energy balance, weight control, and eating disorders (Ch. 10) and sports nutrition (Ch. 11) have been moved up to precede the micronutrient chapters.

- Enhanced art program. More than one thousand drawings, photographs, and tables in the text were critically analyzed to identify how each could be enhanced and refined to help students more easily master complex scientific concepts.

-- Photographs were added to many tables to promote interest and retention of information. Many photographs were updated or replaced to inspire student inquiry and comprehension.

-- Dozens of existing illustrations were redesigned to use brighter colors and a more attractive, contemporary style. Others were fine-tuned to make them clearer and easier to follow.

-- Process descriptions within many figures were moved from the legend into the body of the figure. Pairing the action and explanation together walks students step-by-step through the process and increases the teaching effectiveness of these figures.

- Applying nutrition on a personal level. New and enhanced pedagogical aids have been crafted to capture students’ interest and enhance the flow of the reading:

  - Updated case studies showcase realistic scenarios and thought-provoking questions.

  - Two “Take Action” features (many are new) allow students to examine their own diet and health issues.

  - Medical Perspectives boxes delve into clinical and medical aspects of nutrition. These features help students apply the science of nutrition to their own lives, and particularly appeal to those students interested in health professions. Some topics include: Ch. 5, Diabetes; Ch. 6, Cardiovascular Disease; Ch. 10, Professional Help for Weight Control; Ch. 13, Neural Tube Defects; Ch. 14, Hypertension; Ch. 15, Cancer.

  - Expert Perspectives from the Field boxes feature high-interest topics written from the perspective of nutrition professional. Examples include: Ch. 3, Organic Foods and Local Food Systems; Ch. 4, Gluten Intolerance; Ch. 7, Nutrition and Immunity; Ch. 10, High Fructose Corn Syrup and Your Waistline.

  - Global Nutrition Perspective boxes integrate key aspects of world nutrition into appropriate chapters. Examples include: Ch. 4, Diarrhea in Infants and Children; Ch. 12, Vitamin A Deficiency; Ch. 14, Water for Everyone.

- Assessment and evaluation of learning. The authors have integrated a number of tools that will allow students and instructors alike to measure their success:

-- Student Learning Outcomes at the beginning of each chapter have been crafted to clearly delineate for students the competencies they are expected to master in that chapter. The online testbank questions that accompany the chapters of this text have been correlated to individual student learning outcomes. This will help instructors identify which concepts students have mastered and which they may require additional assistance with.

-- New “Knowledge Check” questions appear after each major section to encourage students to self-assess their understanding of key concepts before proceeding to the next section.

-- Chapters now conclude with re-formatted Study Questions (multiple choice and true/false with answer key) to provide students with a practice test to assess their mastery and build self-confidence.

-- Critical Thinking questions in the margins challenge students to link key nutrition concepts with real-life situations. These questions also provide a springboard for provocative classroom discussions.
CONTENTS

Part 1 Nutrition Basics
1 The Science of Nutrition
2 Tools of a Healthy Diet
3 The Food Supply
4 Human Digestion and Absorption

Part 2 Energy-Yielding Nutrients and Alcohol
5 Carbohydrates
6 Lipids
7 Protein
8 Alcohol

Part 3 Metabolism and Energy Balance
9 Energy Metabolism
10 Energy Balance, Weight Control, & Eating Disorders
11 Nutrition, Exercise, and Sports

Part 4 Vitamins and Minerals
12 Fat-Soluble Vitamins
13 Water-Soluble Vitamins
14 Water and Major Minerals
15 Trace Minerals

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I English-Metric Conversions
J Estimated Average Requirements (EARs) for Nutrients
K CDC Growth Charts
L Sources of Nutrition Information
M Dietary Intake and Energy Expenditure Assessment

FEATURES

- Uniquely Concise Organization. Structured into 13 chapters, this entire text can easily be covered within one semester. Instead of separate chapters on different lifecycles, there is one chapter devoted to all key life stages. Unlike other textbooks, global nutrition does not constitute its own chapter at the end of the text (where it is often overlooked due to lack of time); instead, key aspects of world nutrition are introduced in Chapter 1 and then incorporated throughout the text where relevant.

- Unique Chapter 2 — Evaluating Nutrition Information! This chapter discusses how to evaluate the sources and messages of nutrition- and health-related information for reliability, a very important topic that other textbooks generally devote only a small section of a chapter.

- Distinct Focus on Consumerism. Topics that relate to consumerism are woven throughout the narrative and in pedagogical tools placed throughout the text so as not to distract the reader:

  - Real People, Real Stories -- Healthy young people often take their health for granted. Instead of using contrived case studies or fictional characters to provide examples of people with nutrition-related disorders, the author conducted interviews with individuals who actually have recovered from or currently experience conditions such as type 1 diabetes, eating disorders, and hypertension. This feature is designed to help students recognize the daily challenges people with such conditions face and the role diet and physical activity play in managing health.

  - Food and Nutrition Tips -- The practical tips that apply material presented in a section provide information to students that they can use everyday and for the rest of their lives.

  - Recipes for Healthy Living -- This feature includes one or more easy-to-make, kitchen-tested recipes that relate to the chapter’s content. Information about the energy and key nutrients in a serving of the food is also presented as a pie-chart displaying the percentages of energy from carbohydrate, protein, and fat. This feature demonstrates that preparing nutritious foods can be fun and economical. By trying the recipes, students can develop basic food preparation skills and may be inspired to cook more foods “from scratch.” As a result, they may rely less on vending machines and fast food outlets.

  - Did You Know? Tidbits -- This marginal feature notes interesting nutrition-related tidbits that apply to information presented in that section of the chapter. Some of these features set the record straight concerning commonly held beliefs about food and nutrition. Furthermore, “Did You Know?” is designed to stimulate students’ interest in nutrition and foods.

  - Manageable Science. The author believes it is important to provide students with basic scientific principles that are technically accurate and simple to understand. Unlike other textbooks, Chapter 4 (Body Basics) introduces very basic chemistry and defines terms needed to understand the scientific foundation of nutrition. The chapter is divided into two main sections, chemistry and human physiology, so professors can easily skip the section that focuses on chemistry if they so choose.

  - Assessment and Evaluation: Nutrition for Healthy Living provides a variety of learning assessment activities so students can assess and evaluate their understanding of content. Besides the end-of-chapter critical thinking and multiple choice questions, two other quizzing tools appear within each chapter:

    - Quiz Yourself: This pretest is comprised of five true or false questions placed at the end of chapter openers; answers are provided at the end of the chapter. The purpose of “Quiz Yourself” is to stimulate interest in reading the chapter. By taking the quiz, students may be surprised to learn how little or much they know about the chapter’s contents.

    - Concept Checkpoints: “Concept Checkpoints” are review questions, many of which involve critical thinking skills, posed at the end of major headings. Such questions enable students to test their acquisition of information in the section.

International Edition

NUTRITION FOR HEALTHY LIVING

By Wendy J Schiff, Saint Louis CC-Meramec-Kirkwood

2009 (January 2008)
ISBN: 978-0-07-722485-1

www.mhhe.com/schiff

Today’s “superfood” textbook! A text with a potent kick of nutritional benefits... Nutrition for Healthy Living takes an innovative approach to basic nutrition for the intro Nutrition course. With its uniquely concise organization that serves up concepts in manageable portions and a distinct focus on consumerism, this engaging, fun-to-read text will provide students with the scientific foundation needed to make informed nutritional lifestyle decisions well beyond the classroom.
Student Learning Outcomes. Each chapter revolves around 5-10 student learning outcomes. The concepts are served in small portions that students can easily process. In addition, author Wendy Schiff has written the entire book’s testbank to ensure consistency between book and test bank, especially with regard to student learning outcomes. Certain questions have been written and noted as questions specifically related to the SLOs.

Personal Dietary Analysis: Many chapters include an end-of-chapter activity for analyzing personal eating habits. Most of these activities require the use of a dietary analysis software program, such as McGraw-Hill’s NutritionCalc Plus 3.0 software. Students can gain insight into their eating behaviors by completing this activity.

The latest release of NutritionCalc Plus 3.0 diet analysis software is now available. Both the CD and Online versions share a new user-friendly interface and a handy video tutorial. Other enhancements include the ability to track up to three profiles, 365-day calendar function, a 27,000+ food database, and a new recipe function.

McGraw-Hill Presentation Center. ARIS Presentation Center is an online digital library containing assets such as photos, artwork, PowerPoints, animations, and other media types that can be used to create customized lectures, visually enhanced tests and quizzes, compelling course websites, or attractive printed support materials. Accessed from the instructor side of the textbook’s ARIS website, Presentation Center’s dynamic search engine allows instructors to explore by discipline, course, textbook chapter, asset type, or keyword. Simply browse, select, and download the files you need to build engaging course materials. All assets are copyright McGraw-Hill Higher Education but can be used by instructors for classroom purposes.

McGraw-Hill’s ARIS. ARIS is a complete electronic homework and course management system, designed for greater ease of use than any other system available. Instructors can create and share course materials and assignments with colleagues with a few clicks of the mouse. Instructors can edit questions, import their own content, and create announcements and due dates for assignments. ARIS has automatic grading and reporting of easy-to-assign homework, quizzing, and testing. Once a student is registered in the course, all student activity within McGraw-Hill’s ARIS is automatically recorded and available to the instructor through a fully integrated grade book that can be downloaded to Excel.

CONTENTS

PART ONE: Laying the Foundation for Better Health
1. The Basics of Nutrition
2. Evaluating Nutrition and Health Information
3. Planning Nutritious Menus
4. Body Basics

PART TWO: Nutrients and Your Health
5. Carbohydrates
6. Fats and Other Lipids
7. Proteins
8. Vitamins
9. Minerals and Water

PART THREE: Applying Your Nutrition Knowledge
10. Energy Balance and Weight Management
11. Exercise and Sports
12. Food Safety Concerns
13. Nutrition for a Lifetime
Appendix A English-Metric Conversions
Appendix B Canadian Food Guide
Appendix C Daily Values Table
Appendix D Energy Metabolism
Appendix E Amino Acids
Appendix F Vitamins Involved in Energy Metabolism
Appendix G Growth Charts
Appendix H End of Chapter Multiple Choice Answer Keys
Glossary
Accessed from the instructor side of the textbook’s ARIS website, Presentation Center’s dynamic search engine allows instructors to explore by discipline, course, textbook chapter, asset type, or keyword. Simply browse, select, and download the files you need to build engaging course materials. All assets are copyright McGraw-Hill Higher Education but can be used by instructors for classroom purposes.

CONTENTS

NUTRITION: A KEY TO HEALTH
Chapter 1: What You Eat and Why
Chapter 2: Guidelines for Designing a Healthy Diet
Chapter 3: The Human Body: A Nutrition Perspective

ENERGY NUTRIENTS AND ENERGY BALANCE
Chapter 4: Carbohydrates
Chapter 5: Lipids
Chapter 6: Proteins
Chapter 7: Energy Balance and Weight Maintenance

VITAMINS, MINERALS AND WATER
Chapter 8: Vitamins
Chapter 9: Water and Minerals

NUTRITION: BEYOND THE NUTRIENTS
Chapter 10: Nutrition: Fitness and Sports
Chapter 11: Eating Disorders: Anorexia Nervosa, Bulimia Nervosa, and Other Conditions
Chapter 12: Food Safety
Chapter 13: Undernutrition throughout the World

NUTRITION: A FOCUS ON THE LIFE STAGES
Chapter 14: Pregnancy and Breastfeeding
Chapter 15: Nutrition from Infancy through Adolescence
Chapter 16: Nutrition during Adulthood

APPENDICES:
A: Solutions to Case Studies and Check Your Knowledge
B: Daily Values Used in Food Labels
C: Dietary Advice for Canadians
D: The Exchange System
E: Dietary Intake and Energy Expenditure Assessment
F: Chemical Structures in Nutrition
G: Height-Weight Tables
H: Sources of Nutrition Information
I: English-Metric Conversions

FEATURES

- Grouping vitamins and minerals by their functions, rather than a sequential discussion of each nutrient, helps students appreciate how vitamins and minerals work together in the body and also provides a logical framework for understanding and retaining important information about vitamins and minerals.
- The authors purposefully write as though they are acting as personal guides to each student as they explore the world of nutrition. They provide ample opportunities for students to apply concepts and guidelines to their own lives. For example, each chapter concludes with two Rate Your Plate activities that students can work through as a group or individually. All are designed to encourage students to actively analyze their own eating habits.
- The authors have included the most up-to-date research and data available, including: new food source diagrams for nutrients based upon MyPyramid food groups, the American Heart Association 2006 Diet, new information about E. coli O157:H7, Listeria, and Norovirus, 2006 World Health Organization growth charts for children, an expanded discussion of nutrigenomics, new information on omega-3 fatty acids, and more.
- Concept Checks At key points throughout the chapter, Concept Checks allow students to mentally summarize what they have learned before proceeding to the next topic in the chapter.
- Each chapter culminates with a Case Study that presents a real life situation followed by a list of directed questions to assist students in applying the nutrition knowledge from the chapter. Responses to the Case Study questions are found in Appendix A.
- Looking for technology to enhance student learning? McGraw-Hill has partnered with NBC to provide 12 short videoclips on current nutrition topics. Nearly 50 animations and simulations are also available, which cover a broad range of nutrition topics, allowing instructors and students to harness the visual impact of nutrition processes in motion. All of these tools are available on ARIS.
- Available with the text is NutritionCalc Plus 3.0 diet analysis software. Both the CD and Online versions share a new user-friendly interface and a handy video tutorial. Other enhancements include the ability to track up to three profiles, 365-day calendar function, a 27,000-food database, and a new recipe function.
- McGraw-Hill Presentation Center. ARIS Presentation Center is an online digital library containing assets such as photos, artwork, PowerPoints, animations, and other media types that can be used to create customized lectures, visually enhanced tests and quizzes, compelling course websites, or attractive printed support materials. Accessed from the instructor side of the textbook’s ARIS website, Presentation Center’s dynamic search engine allows instructors to explore by discipline, course, textbook chapter, asset type, or keyword. Simply browse, select, and download the files you need to build engaging course materials. All assets are copyright McGraw-Hill Higher Education but can be used by instructors for classroom purposes.
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NEW

International Edition

CONTEMPORARY NUTRITION
A Functional Approach

By Gordon M Wardlaw and Anne M Smith of Ohio State University, James E Bailey

2009 (February 2008)
ISBN: 978-0-07-722778-4

www.mhhe.com/wardlawcontfa1

Contemporary Nutrition: A Functional Approach is an alternate version of Wardlaw-Smith’s Contemporary Nutrition, 7e. While Contemporary Nutrition: A Functional Approach shares the recognized strengths of the seventh edition, it offers a unique approach to the coverage of vitamins and minerals. It departs from a traditional presentation by instead organizing vitamins and minerals within the context of physiological functions and the health conditions they influence. The text will provide students who lack a strong science background the ideal balance of reliable nutrition information and practical consumer-oriented knowledge. With their friendly writing style, the authors act as the student’s personal guide to dispelling common misconceptions and to gaining a solid foundation for making informed nutrition choices.
Multimedia

NUTRITIONCALC PLUS 3.2
CD-ROM

By ESHA Research

2009 (December 2008)

www.mhhe.com/ncp3

NutritionCalc Plus 3.0 is a suite of powerful dietary self-assessment tools. Use NutritionCalc Plus 3.0 to analyze and monitor personal diet and health goals. An easy-to-use interface and the reliability of the ESHA database make NutritionCalc Plus 3.0 the best choice for nutrition analysis software. Enhancements to 3.0 include the ability to track up to three profiles, 365-day calendar function, a 27,000-food database, and a new recipe function.

NEW TO THIS EDITION

- NEW! Both the CD and Online versions now share an identical user-friendly interface. Instructors will be able to write one set of assignment directions, regardless of which version students have purchased.
- NEW! NCP 3.0 now offers the ability to enter up to three Profiles. Users can enter their own personal data and intakes, as well as those of two other individuals (e.g., assigned case study, diabetic person, vegetarian friend).
- NEW! NCP 3.0 now offers an intuitive 365-day calendar in which users can easily track their daily food intakes and activities.
- NEW! Users will now be able to create and analyze their own Recipes and add them to their personal database. This feature gives users ultimate flexibility in creating accurate food lists.
- NEW! To ensure an accurate dietary analysis, caution notes now appear to alarm users of possible entry error. For instance:
  - If a user enters an amount for a single food that exceeds 1/3 of his/her recommended daily calories, the user will receive a warning message asking to verify whether the amount chosen is correct.
  - A warning note will appear if the activities chosen exceed 24 hours in a day.
  - If the activities entered do not match the user’s Profile’s Activity Level, NCP will generate a notice asking if the user wishes to return to his/her Profile and adjust the Activity Level.
- NEW! NCP 3.0 now gives users access to 27,000 foods, including more ethnic and fast food choices. All nutrient data comes from ESHA.

Supplements

NUTRITION ALMANAC
6th Edition
By Lavon J Dunne, John D Kirschmann, Nutrition Search, Inc
2007 (December 2006) / 384 pages
ISBN: 978-0-07-143658-8

A Professional Publication

Your ultimate guide to choosing the right foods and supplements, feeling younger, improving health, and living longer. A trusted source for 30 years, Nutrition Almanac empowers you to take charge of your well-being by pinpointing the relationship between foods and health. Providing comprehensive information on everything food-related, you learn how to use nutrition to fight disease, boost immunity, and slow the effects of aging, as well as increase energy, elevate mood, improve digestion, and control weight.

CONTENTS
1: Nutrition and Health
2: Exercise
3: Sources of calories
4: Nutrients
5: Ailments and Other Stressful Conditions
6: Normal Life Cycle
7: Herbs
8: Foods, Beverages, and Natural Supplementary Foods
9: Table of Food Composition
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Research, the country’s leading nutrient database company.

- NEW! Each step in the diet analysis process is now fully supported by integrated Help and Info descriptions. Each screen provides instructions, as well as handy tips and explanatory notes.

- NEW! Users can now easily email reports or download documents into Excel or Word (and similar programs) to make completing assignments even easier.

FEATURES

- Four easy steps are all users need to successfully complete for an accurate dietary analysis:
  - Profile -- Create a profile by entering personal information, such as weight and height, to generate individualized nutrient recommendations.
  - Food Intake -- Compile a food intake list by searching for foods eaten and entering amounts and specifying meals.
  - Activities -- Estimate activity level and calories burned by tracking specific daily exercise.
  - Reports -- Analyze diet and exercise with 9 different customized reports.

- The latest DRI values are included for essential nutrients, vitamins, and minerals.
- Users can analyze and adjust their energy expenditure and weight control goals.
- Intuitive tool bar icons make navigating through the program easy.

NEW TO THIS EDITION

- NEW! Both the CD and Online versions now share an identical user-friendly interface. Instructors will be able to write one set of assignment directions, regardless of which version students have purchased.

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NUTRITIONCAL PLUS 3.0 CD-ROM

By ESHA Research

2009 (April 2008)
www.mhhe.com/ncp3

NutritionCalc Plus 3.0 is a suite of powerful dietary self-assessment tools. Use NutritionCalc Plus 3.0 to analyze and monitor personal diet and health goals. An easy-to-use interface and the reliability of the ESHA database make NutritionCalc Plus 3.0 the best choice for nutrition analysis software. Enhancements to 3.0 include the ability to track up to three profiles, 365-day calendar function, a 27,000-food database, and a new recipe function.

NEW TO THIS EDITION

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- A warning note will appear if the activities chosen exceed 24 hours in a day.

- If the activities entered do not match the user’s Profile’s Activity Level, NCP will generate a notice asking if the user wishes to return to his/her Profile and adjust the Activity Level.

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  - Profile -- Create a profile by entering personal information, such as weight and height, to generate individualized nutrient recommendations.
  - Food Intake – Compile a food intake list by searching for foods eaten and entering amounts and specifying meals.
  - Activities – Estimate activity level and calories burned by tracking specific daily exercise.
  - Reports -- Analyze diet and exercise with 9 different customized reports.
- The latest DRI values are included for essential nutrients, vitamins, and minerals.
- Users can analyze and adjust their energy expenditure and weight control goals.
- Intuitive tool bar icons make navigating through the program easy.
NUTRITION THROUGHOUT THE LIFE CYCLE

100

Nutrition Through The Life Cycle

Nutrition and Sport

NEW

International Edition

NUTRITION FOR HEALTH, FITNESS AND SPORT
9th Edition
By Melvin H Williams, Old Dominion University
2010 (February 2009) / 608 pages
ISBN: 978-0-07-337555-7
http://www.mhhe.com/williams9

This textbook provides the reader with thorough coverage of the role nutrition plays in enhancing one’s health, fitness, and sport performance. Current research and practical activities are incorporated throughout.

NEW TO THIS EDITION
- The reference lists have been completely updated for this ninth edition, with the inclusion of over 900 new references, and provide the scientific basis for the new concepts or additional support for those concepts previously developed. These references provide greater in-depth reading materials for the interested student.
- The text has been updated throughout, including new questions, figures, and tables.
- A new feature, Cool Websites, offers readers appropriate Internet sources from which they can obtain additional information on specific exercise and nutrition topics.
- The appendix has been expanded to include the MyPyramid for Kids.

CONTENTS
1 Introduction to Nutrition for Health, Fitness, and Sport Performance
2 Healthful Nutrition for Fitness and Sport: The Consumer Athlete
3 Human Energy
4 Carbohydrates: The Main Energy Food
5 Fat: An Important Energy Source during Exercise
6 Protein: The Tissue Builder
7 Vitamins: The Organic Regulators
8 Minerals: The Inorganic Regulators
9 Water, Electrolytes and Temperature Regulation
10 Body Weight and Composition for Health and Sport
11 Weight Maintenance and Loss through Proper Nutrition and Exercise
12 Weight Gaining through Proper Nutrition and Exercise
13 Food Drugs and Related Supplements

www.mhhe.com/worthington

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Chapter 2. The Assessment of Nutritional Needs (S. Rodwell Williams)
Chapter 4. Maternal Nutrition: Overall Nutrition and the Roles of Specific Nutrients (B. Worthington-Roberts)
Chapter 6. Lactation: The Mother and Her Milk (B. Worthington-Roberts)
Chapter 7. Lactation: Breast-Feeding is a Desirable Option (B. Worthington-Roberts)
Chapter 10. Nutrition in Childhood (C. Trahms)
Chapter 11. Adolescent Nutrition: General (B. Spear)
Chapter 12. Weight-Related Concerns and Disorders Among Adolescents (D. Neumark-Sztainer, J. Moe)
Chapter 13. Nutrition During the Middle Adult Years (S. Rodwell Williams)
Chapter 14. Nutrition in the Older Adult (E. Schlenker)
Nutritional Assessment

NUTRITIONAL ASSESSMENT
4th Edition
By Robert D Lee, Central Michigan University and David C Nieman, Appalachian State University
2007 (March 2006) / 608 pages
ISBN: 978-0-07-125426-7 [IE]
http://www mhhe.com/lee-nieman4

This text describes the four major methods of nutritional assessment (dietary, anthropometric, biometric, and clinical) in an understandable and contemporary way. It thoroughly covers assessment of the hospitalized individual, but also serves as an invaluable resource to the nutrition professional working in such areas as public health and community nutrition, corporate health, and sports medicine.

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1 Introduction to Nutritional Assessment
2 Standards for Nutrient Intake
3 Measuring Diet
4 National Dietary and Nutrition Surveys
5 Computerized Dietary Analysis Systems
6 Anthropometry
7 Assessment of the Hospitalized Patient
8 Nutritional Assessment in Disease Prevention
9 Biochemical Assessment of Nutritional Status
10 Clinical Assessment of Nutritional Status
11 Counseling Theory and Technique

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This introductory, one quarter/one-semester text takes a multi-disciplinary approach to studying the relationship between plants and people. The authors strive to stimulate interest in plant science and encourage students to further their studies in botany. Also, by exposing students to society’s historical connection to plants, Levetin and McMahon hope to instill a greater appreciation for the botanical world. Plants and Society covers basic principles of botany with strong emphasis on the economic aspects and social implications of plants and fungi.
PLANTS & ANIMALS

**International Edition**

**PRINCIPLES OF BOTANY**

*By Gordon Uno, National Science Foundation, Richard Storey, Colorado College and Randy Moore, University of Minnesota-Minneapolis*

2001

ISBN: 978-0-07-118087-0 [IE]

www.mhhe.com/botany

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2. The Ecology and Natural Selection of Plants
3. Energy and Cell Chemistry
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18. Gymnosperms and Angiosperms: The Seed Plants
19. Ecology

Appendix A: What is Genetic Engineering?
Appendix B: Fundamentals of Chemistry for Botany Students

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**Botany (Economic)**

**ECONOMIC BOTANY**

*3rd Edition* by Beryl Simpson and Molly Ogorzaly of University of Texas at Austin

2001 / 210 pages

ISBN: 978-0-07-290938-8


www.mhhe.com/biosci/pae/botany/simpson-links/weblinks.mhtml

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10. Hydrogels, Elastic Latexes, and Resins
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12. Psychoactive Drugs and Poisons from Plants
13. Stimulating Beverages
14. Alcoholic Beverages
15. Fibers, Dyes, and Tannins
16. Wood, Cork, and Bamboo
17. Ornamental Plants
18. Algae
19. Uses of Plants in the Future

---

**Lab Manuals**

**LABORATORY MANUAL TO ACCOMPANY INTRODUCTORY PLANT BIOLOGY**

*11th Edition* by Kingsley Stern, California State University-Chico and James Bidlack, University of Central Oklahoma

2008 (February 2007)


This laboratory manual assumes no previous knowledge of the biological sciences on the part of the student. It is designed for use in a one-semester or one-quarter introductory course in plant biology and shorter introductory botany courses open to both nonmajors and majors. Both the principles of biology and the scientific method are introduced, using plants as illustrations. The exercises demonstrate the underlying unity of all living organisms at the cellular level. The manual is designed so that students can work more or less independently. Instructors are free to require different drawings or other assignments and may also omit some of those suggested within each exercise. Students are encouraged to read the laboratory exercise before coming to class. Laboratory preparation quizzes are provided at the end of each exercise. Answers to the laboratory preparation quizzes are discernible within the particular exercises and should not require checking other sources. Each exercise includes suggested learning goals and exercise review questions. Answers to the lab manual exercise review questions can be found on the Online Learning Center that accompanies the Eleventh Edition textbook.

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12. Meiosis and Alternation of Generations
13. Domain and Kingdom Survey
14. Domains Archaea and Bacteria; Kingdom Protista
15. Kingdom Fungi (Mycota)
16. Bryophytes and Ferns
17. Kingdom Plantae: Gymnosperms
18. Kingdom Plantae: Angiosperms (Flowering Plants--Phylum Magnoliophyta)
19. Fruits, Spices, Survival Plants, and Poisonous Plants
20. Ecology
21. Genetics
Parasitology

NEW

International Edition

FOUNDATIONS OF PARASITOLOGY
8th Edition

By Larry S Roberts, Florida Int’l University-Miami and John Janovy Jr, University of Nebraska-Lincoln

2009 (October 2008) / 728 pages
http://www.mhhe.com/robertsjanovy8e

A parasitology text for biology and/or zoology students at the undergraduate level. Emphasizes principles with related information on the biology, physiology, morphology, and ecology of the major parasites of humans and domestic animals. This is not a diagnostic manual for medical students.

NEW TO THIS EDITION

- Chapter 1 retains the light-hearted section titled “Parasitology for Fun and Profit” to emphasize how students can earn an income while studying the fascinating world of parasites.
- Chapter 3 has an added figure illustrating a JAK-STAT cell-signaling pathway.
- Chapter 5 has a new diagram of life cycles of trypanosomatids infecting humans.
- In Chapter 7, several new figures were added, including an Acanthameoba-infected eye.
- In Chapter 12, we recognize two phyla of mesozoans in accord with recent literature, and the classification has been revised.
- In Chapter 16, we point out the potential for widespread increase in prevalence of Schistosoma japonicum resulting from the huge Three Gorges Dam on the Yangtze River in China.
- Chapter 33 has an added discussion of Arthropoda phylogeny, including its position as a member of superphylum Ecdysozoa.

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3 Basic Principles and Concepts II: Immunology and Pathology
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7 The Amebas
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9 Phylum Apicomplexa: Malaria Organisms and Pirolasmas
10 Phylum Ciliophora: Ciliated Protistan Parasites
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12 The Mesozoa: Pioneers or Degenerates?
13 Introduction to Phylum Platyhelminthes
14 Trematoda: Aspidobothrea
15 Trematoda: Form, Function, and Classification of Digeneans
16 Digeneans: Strigeiformes
17 Digeneans: Echinostomatiformes
18 Digeneans: Plagiorchiformes and Opisthorchiformes
19 Monogenoidea
20 Cestoidea: Form, Function, and Classification of the Tapeworms
21 Tapeworms
22 Phylum Nematoda: Form, Function, and Classification
23 Nematodes: Trichinella and Diplotomphalid, Enoploian Parasites
24 Nematodes: Tylencia, Pioneering Parasites
25 Nematodes: Strongyloidea, Bursate Rhabditidans
26 Nematodes: Ascaridomorpha, Intestinal Large Roundworms
27 Nematodes: Oxyuridomorpha, Pinworms
28 Nematodes: Gnathostomatophoromaphora and Spiruromorpha, a Potpourri
29 Nematodes: Filaroidea, Filiarial Worms
30 Nematodes: Dracunculoidea, Guinea Worms and Others
31 Phylum Nematomorpha, Hairworms
32 Phylum Acanthocephala: Thorny-Headed Worms
33 Phylum Arthropoda: Form, Function, and Classification
34 Parasitic Crustaceans
35 Pentastomida: Tongue Worms
36 Parasitic Insects: Phthiraptera, Chewing and Sucking Lice
37 Parasitic Insects: Hemiptera, Bugs
38 Parasitic Insects: Fleas, Order Siphonaptera
39 Parasitic Insects: Diptera, Flies
40 Parasitic Insects: Strepsiptera, Hymenoptera, and Others
41 Parasitic Arachnids: Subclass Acari, Ticks and Mites

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Invertebrate Biology

NEW

International Edition

BIOLOGY OF THE INVERTEBRATES
6th Edition

By Jan A Pechenik, Tufts University

2010 (January 2009) / 608 pages
http://www.mhhe.com/pechenik6e

This textbook is the most concise and readable invertebrates book in terms of detail and pedagogy (other texts do not offer boxed readings, a second color, end of chapter questions, or pronunciation guides). All phyla of invertebrates are covered (comprehensive) with an emphasis on unifying characteristics of each group.

NEW TO THIS EDITION

✓ A new chapter has been added called: The Xenoturbellids.
✓ Chapter 13 The Annelids and Chapter 18 Three Phyla of Uncertain Affiliation: Gastrotricha, Chaetognatha, and Ciliophora have been heavily revised and updated.
✓ Many new photographs and drawings have been added, to clarify the text and to help generate interest among students.

CONTENTS

1 Environmental Considerations
2 Invertebrate Classification and Relationships
3 The Protozoan Protists
4 The Poriferans and Placozoans
5 Introduction to the Hydrostatic Skeleton
6 The Cnidarians
7 The Ctenophores
8 The Platyhelminthes
9 The Gnathifera: Rotifers, Acanthocephalans, and two smaller groups
10 The Rotifers and Acanthocephalans
11 The Nemertines
12 The Molluscs
13 The Annelids
14 The Arthropods
15 Two Phyla of Likely Arthropod Relatives: Tardigrada and Onychophora
16 The Nematodes
17 Four Phyla of Likely Nematode Relatives: Nematomorpha, Priapulida, Kinorhyncha, and Loricifera
18 Three Phyla of Uncertain Affiliation: Gastrotricha, Chaetognatha, and Ciliophora
19 The Lophophorates (Phoronids, Brachiopods, Bryozoa) and Entoprocts
20 The Echinoderms
21 The Hemichordates
22 The Xenoturbellids
23 The Nonvertebrate Chordates
24 Invertebrate Reproduction and Development–An Overview

Vertebrate Biology

NEW

International Edition

VERTEBRATES
COMPARATIVE ANATOMY, FUNCTION, EVOLUTION
5th Edition

By Kenneth Kardong, Washington State University-Pullman

2009 (August 2008) / 800 pages
http://www.mhhe.com/kardong5e

This one-semester text is designed for an upper-level majors course. Vertebrates features a unique emphasis on function and evolution of vertebrates, complete anatomical detail, and excellent pedagogy. Vertebrate groups are organized phylogenetically, and their systems discussed within such a context. Morphology is foremost, but the author has developed and integrated an understanding of function and evolution into the discussion of anatomy of the various systems.

NEW TO THIS EDITION

✓ Many changes and revisions have been made throughout this new edition, some major, some small. The chapters on life history (embryology), locomotion (energetics, burrowing, respiration), and circulatory system have been substantially revised. Many revised figures not only incorporate newer information but also present an evolutionary summary within a cladistic context.
✓ Several new Box Essays have been added, e.g., snakes and their prey ("Borrowed Toxins," Chapter 6), and prosthetic "cheetahs" ("On a Fast Track," Chapter 10).
✓ Over Turning Chordates. New developmental genetics now indicate that chordate ancestors flipped over immediately, reversing dorsal and ventral surfaces. That inversion remains the basis of the chordate body plan today.
✓ Amphioxus Basal. Recently completed genomic studies reveal that amphioxus is not the sister group to vertebrates; urochordates now occupy that position. Amphioxus is the most basal living group of chordates, but this enlarges its importance as a possible model for the first chordates.
✓ Evo-Devo. The genomic section on evolution and development (Chapter 5), introduced in the last edition, is expanded here by including more examples throughout the chapters of how master control genes (Hox genes) build vertebrate systems and provide the genetic basis for major evolutionary changes. This helps to inform and enlighten traditional form, function, and evolution of vertebrates with modern genetic mechanisms.
✓ Phylogenetic Relationships. Thanks again to evermore comprehensive molecular comparisons of vertebrate groups, phylogenetic relationships are becoming better resolved, and natural groups are emerging from this analysis with better clarity. This is the basis for revisions in the third chapter, but these are carried forward throughout the book.
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CONTENTS

1 Introduction
2 Origin of Chordates
3 The Vertebrate Story
4 Biological Design
5 Life History
6 Integument
7 Skeletal System: The Skull
8 Skeletal System: The Axial Skeleton
9 Skeletal System: The Appendicular Skeleton
10 The Muscular System
11 The Respiratory System
12 The Circulatory System
13 The Digestive System
14 The Urogenital System
15 The Endocrine System
16 The Nervous System
17 Sensory Organs
18 Conclusions
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2 Concepts, Premises, and Pioneers
3 Protochordates and the Origin of Vertebrates
4 The Parade of the Craniates in Time and Taxa
5 Early Craniate Morphogenesis
6 Integument
7 Mineralized Tissues: An Introduction to the Skeleton
8 Vertebrae, Ribs, and Sterna
9 Skull and Visceral Skeleton
10 Girdles, Fins, Limbs, and Locomotion
11 Muscles
12 Digestive System
13 Respiratory System
14 Circulatory System
15 Urogenital System
16 Nervous System
17 Sense Organs
18 Endocrine Organs
Appendix Glossary Credits Index

NEW

ANIMAL DIVERSITY
5th Edition
By Cleveland P Hickman Jr, Washington & Lee University, Larry S Roberts, Florida Int'l University-Miami, Susan L Keen, University of California Davis, Allan Larson, Washington University-St Louis and Eisenhour J David, Morehead State University

2009 (October 2008) / 480 pages
ISBN: 978-0-07-296945-0
ISBN: 978-0-07-128449-3 [IE]
www.mhhe.com/hickmanad5e

A top choice among students and instructors alike, Animal Diversity continues to earn the appreciation of both science majors and non-majors alike. The book uses the theme of evolution to develop a broad-scale view of animal diversity—students focus not only on the organisms themselves, but also on the processes that produce evolutionary diversity. The book is unique in its comprehensive survey of zoological diversity and its emphasis on evolutionary, systematic and ecological principles, all in one package.

NEW TO THIS EDITION
• Inclusion inside the front cover of a cladogram depicting our current understanding of evolutionary relationships among all animal taxa. We reordered our coverage of animal phyla to match the arrangement of phyla on this cladogram. All taxa on the cladogram are mentioned in the text, with emphasis placed on the major phyla.
• Each taxonomic chapter opens with a small image of the cladogram highlighting the phylum or phyla covered, followed early in the chapter by more detailed cladograms for the contents of those taxa.
• We made many noteworthy changes in taxonomic coverage.
• We reorganized the presentation of protostome phyla to emphasize the primary phylogenetic split of Protostomia in clades Lophotrochozoa and Ecdysozoa.
• Material formerly presented as “Biological Contributions” and “Characteristics” of phyla is consolidated in an expanded boxed list of phylum characteristics.
• We added new figures, including explanatory illustrations of characters used in arthropod taxonomy. New photographs expand our illustration of animal diversity in many phyla, and new art often pairs a photograph with a labeled diagram.
• The methodology and concepts of systematics are clarified by making a contrast between classification and systematization in taxonomy, illustrating detection of homoplasy in molecular characters, and introducing “DNA barcoding” as a molecular systematic tool (Chapter 4).
Our refinement of ecological concepts and coverage includes greater discussion of evolution of virulence by parasites, culminating introducing the concept of parasitoids; introducing the concept of a food chain and its distinction from a food web; greater discussion of the genetic and ecological consequences of metapopulation dynamics; new material describing endothermic fishes; and revised coverage of avian physiological ecology.

CONTENTS
1 Science of Zoology and Evolution of Animal Diversity
2 Animal Ecology
3 Animal Architecture
4 Taxonomy and Phylogeny of Animals
5 Protozoan Groups
6 Sponges: Phylum Porifera
7 Radiate Animals: Cnidarians and Ctenophores
8 Acoelomate Bilateral Animals: Flatworms, Ribbon Worms, and Mesozoa
9 Gnathifers and Smaller Lophotrochozoans
10 Molluscs
11 Annelids and Allied Taxa
12 Smaller Ecdysozoans
13 Arthropods
14 Chaetognaths, Echinoderms and Hemichordates
15 Vertebrate Beginnings: The Chordates
16 Fishes
17 The Early Tetrapods and Modern Amphibians
18 Amniote Origins and Nonavian Reptiles
19 Birds
20 Mammals

ZOOLOGY
7th Edition
By Stephen A Miller, College of the Ozarks and John P Harley, Eastern Kentucky University
2007 (May 2006)
ISBN: 978-0-07-110049-6 [IE with OLC]
http://www.mhhe.com/millerharley7e

The new 7th edition of Zoology continues to offer students an introductory general zoology text that is manageable in size and adaptable to a variety of course formats. It is a principles-oriented text written for the non-majors or the combined course, presented at the freshman and sophomore level. Zoology is organized into three parts. Part One covers the common life processes, including cell and tissue structure and function, the genetic basis of evolution, and the evolutionary and ecological principles that unify all life. Part Two is the survey of protists and animals, emphasizing evolutionary and ecological relationships, aspects of animal organization that unite major animal phyla, and animal adaptations. Part Three is the survey of protists and animals, emphasizing evolutionary and ecological relationships, aspects of animal organization that unite major animal phyla, and animal adaptations. Part Three is the survey of protists and animals, emphasizing evolutionary and ecological relationships, aspects of animal organization that unite major animal phyla, and animal adaptations.

CONTENTS
Part One Biological Principles
1 Zoology: An Ecological and Evolutionary Perspective
2 Cells, Tissues, Organs, and Organ Systems of Animals
3 Cell Division and Inheritance
4 Evolution: History and Evidence
5 Evolution and Gene Frequencies
6 Ecology: Preserving the Animal Kingdom
PLANTS & ANIMALS

Part Two Animal-Like Protists and Animalia
11 Animal Classification, Phylogeny, and Organization
12 Animal-like Protists: The Protozoa
13 Multicellular and Tissue Levels of Organization
14 The Triploblastic, Acoelomate Body Plan
15 The Pseudocoeleomate Body Plan: Aschelminths
16 Molluscan Success
17 Annelida: The Metameric Body Form
18 The Radiate Animals
19 The Flatworms
20 Five Small Protostome Phyla
21 The Molluscs
22 The Annelids
23 The Chelicerate Arthropods
24 The Crustacean Arthropods
25 The Arthropods: Myriapods and Insects
26 The Echinoderms
27 Hemichordata and Invertebrate Chordates
28 The Fishes: Vertebrate Success in Water
29 Amphibians: The First Terrestrial Vertebrates
30 Reptiles: The First Amniotes
31 Birds: Feathers, Flight, and Endothermy
32 Mammals: Specialized Teeth, Hair Endothermy, and Viviparity

Part Three Form and Function: A Comparative Perspective
23 Protection, Support, and Movement
24 Communication I: Nervous and Sensory Systems
25 Communication II: The Endocrine System and Chemical Messengers
26 Circulation and Gas Exchange
27 Nutrition and Digestion
28 Temperature and Body Fluid Regulation
29 Reproduction and Development
30 Energy and Enzymes: Life’s Driving and Controlling Forces
31 How Animals Harvest Energy Stored in Nutrients
32 Embryology
33 Animal Behavior

NEW TO THIS EDITION
- We have added a new interactive exercise on how to make a cladogram in Exercise 2, Introduction to Animal Classification. The exercise explains how to map characters onto trees and how to choose between different possible evolutionary pathways using the principle of parsimony.
- We have made several taxonomic updates that parallel the accompanying textbook, Animal Diversity, Fifth Edition. Birds are now recognized as a subclass within the class Reptilia. Birds and reptiles share several derived characters, including distinct skull and ankle characteristics and the presence of beta-keratin in the skin. This unites birds and nonavian reptiles as a monophyletic group. All modern nonavian reptiles are now placed in the diapsid group. Turtles, formerly considered anapsids, are treated (controvertially) as derived diapsids. Another change is inclusion of homopteran insects in the order Hemiptera; the order Homoptera is now obsolete.
- Classifications, where appropriate, are included with the text, together with a new cladogram showing the position of the group in the Eucarya, and a "pie" diagram showing the relative sizes of the classes in a phylum.
- The new Appendix A includes directions for preparing the exercises in this manual. For each exercise we have listed the materials required, directions for preparing solutions, suggestions for maintaining and working with the living materials, suggestions for demonstrations, and a listing of appropriate references, most of which are annotated. This information is convenient to the instructor as well as to students who may later wish to consult or implement an exercise.

CONTENTS
Part 1: Activity of Life
1 Ecological Relationships of Animals
2 Introduction to Animal Classification
Part 2: The Diversity of Animal Life
3 The Microscope
4 Protozoan Groups
5 The Sponges
6 The Radiate Animals
7 The Flatworms
8 Five Small Protostome Phyla
9 The Molluscs
10 The Annelids
11 The Chelicerate Arthropods
12 The Crustacean Arthropods
13 The Arthropods: Myriapods and Insects
14 The Echinoderms
15 Phylum Chordata: A Deuterostome Group
16 The Fishes—Lampreys, Sharks, and Bony Fishes
17 Class Amphibia
18 The Nonavian Reptiles
19 The Birds
20 The Mammals
PLANTS & ANIMALS

NEW TO THIS EDITION

- Major revisions made in the chapters on Protozoa and Arthropoda, reflecting current recent research findings, changes in classification and interpretations of animal relationships.
- All chapters updated to reflect results of recent studies on cellular function, molecular biology, ecology, physiology, and systematics.
- A new chapter on Classification and Systematics based on recent research using new biochemical and genetic techniques to leading to new interpretations of the evolutionary relationships of animal phyla and classes. The chapter also gives an overview of animal morphology to provide a holistic perspective for the evolution of structure and function in the animal kingdom.
- New illustrations added in nearly every chapter including more than two dozen photographs and drawings. Other changes include several new color photographs of animals in natural habitats, diagrams illustrating the life cycles of several invertebrates, and improved critical thinking questions to stimulate student interest and analysis.

FEATURES

- All questions within in the text appear in a different font, to serve as a pedagogical aid to enhance the learning process.
- End-of-chapter section entitled “Suggested Readings,” provides a brief listing of related articles for further reading or research.
- End-of-chapter section titled “Internet Resources,” provides a selection of related websites which are hot links on the custom web site.
- End-of-chapter feature titled “Critical Thinking Questions,” provides a list of challenging questions that encourage application and reflection of the chapter material.
- A Biohazard logo appears next to all lab exercises that deal with potentially hazardous materials.

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Laboratory Safety
Comparative Safety of Preservatives
Handling and Care of Animals in the Laboratory
1. Microscopy
2. Animal Cells and Tissues
3. Mitosis and Meiosis
4. Development
5. Morphology, Classification, and Systematics
6. Protozoa
7. Porifera
8. Cnidaria and the Radiate Phyla
9. Platyhelminthes
10. Other Protostome Phyla
11. Mollusca
12. Annelida
13. Arthropoda
14. Echinodermata
15. Chordata
16. Shark Anatomy
17. Perch Anatomy
18. Frog Anatomy
19. Fetal Pig Anatomy
20. Rat Anatomy

LABORATORY STUDIES IN INTEGRATED PRINCIPLES OF ZOOLOGY
14th Edition
By Cleveland P Hickman, Washington & Lee University, Lee Katz, Pepperdine University and Susan L Keen, University of California Davis
2008 (September 2007) / 448 pages
ISBN: 978-0-07-297005-0

Laboratory Studies in Integrated Principles of Zoology uses a comprehensive, phylogenetic approach in emphasizing basic biological principles, animal form and function, and evolutionary concepts. This introductory lab manual is ideal for a one- or two-semester course. The new edition expertly combines up-to-date coverage with the clear writing style and dissection guides that have distinguished this manual from edition to edition.

CONTENTS

1 Introduction to the Living Animal
1 The Microscope
2 Cell Structure and Division
3 Gametogenesis and Embryology
4 Tissue Structure and Function
5 Introduction to Animal Classification
2 The Diversity of Animal Life
6 Protozoan Groups
7 The Sponges
8 The Radiate Animals
9 The Flatworms
10 Five Small Protosome Phyla
11 The Molluscs
12 The Annelids
13 The Chelicerate Arthropods
14 The Crustacean Arthropods
15 The Arthropods: Myriapods & Hexapods
16 The Echinoderms
17 Phylum Chordata: A Deuterostome Group
18 The Fishes--Lampreys, Sharks, and Bony Fishes
19 The Amphibians
20 The Nonavian Reptiles
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22 The Mammals
3 Activity of Life
23 Ecological Relationships of Animals
Appendix A Instructor’s Resources for Implementing Exercises
Appendix B Sources of Living Material and Prepared Microslides
# NEW TITLES

## PHYSICS & ASTRONOMY

### 2010

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### 2009

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<td>Lab Manual to accompany Physical Science, 8e</td>
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<tr>
<td>Physical Science, 8e</td>
<td>Tillery</td>
<td>9780077263133</td>
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This is an outstanding text with a long history that has been updated and given a fresh look. The 2010 copyright year represents the 50th anniversary of the publishing of this classic text. The text is also accompanied by a strong media component with the ARIS online homework system, “CPS” eInstruction student response system questions, more extensive online quizzing, and PowerPoint lectures. Aimed at presenting the essentials of physics, chemistry, earth science, and astronomy in a clear, easy-to-understand way, The Physical Universe shows students how science works, how scientists approach problems, and why science constantly evolves in its search for understanding. The text can also be packaged with its long time companion student study guide, which includes a review of chapter terms and concepts; self quizzing for extra practice; and solved problems from the text.

NEW TO THIS EDITION

- NEW Chapter 4 entitled “Energy and the Future” has much newly added text coverage, 17 sidebars, and 35 illustrations, 22 of them new.

FEATURES

- Chapter Goals are now integrated into the outline as part of the chapter opener content.
- Superb pedagogy: updated “A Scientist at Work” essays, biographies of important scientists, worked examples and exercises, chapter summaries, conceptual questions and problems, high-interest sidebars applying science to everyday life, and answers to all odd-numbered questions and problems.
- The Krauskopf/Beiser text is more conceptual than most physical science texts in particular emphasizing the scientific method of inquiry - how scientists think.

CONTENTS

1 The Scientific Method
How Scientists Study Nature
The Solar System
Universal Gravitation
How Many of What
2 Motion
Describing Motion
Acceleration of Gravity
Gravitation
3 Energy

Work
Energy
Momentum
Relativity
Energy and Civilization
4 Energy and the Future
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Fossil Fuels
Alternative Sources
Strategies for the Future
5 Matter and Heat
Temperature and Heat
Fluids
Kinetic Theory of Matter
Changes of State
Energy Transformations
6 Electricity and Magnetism
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Electricity and Matter
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8 The Nucleus
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Fission and Fusion
Elementary Particles
9 The Atom
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Matter Waves
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Solutions
Acids and Bases
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Structures of Organic Molecules
Organic Compounds
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Weather
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15 The Rock Cycle
Rocks
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Plate Tectonics
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17 The Solar System
The Family of the Sun
The Inner Planets
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18 The Stars
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The Stars
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19 The Universe
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Answers to Odd-Numbered Exercises
Glossary

PHYSICAL SCIENCE
8th Edition
By Bill Tillery, Arizona State University-Tempe

2009 (September 2008)
http://www.mhhe.com/tillery

Physical Science, Eighth Edition, is a straightforward, easy-to-read, but substantial introduction to the fundamental behavior of matter and energy. It is intended to serve the needs of non-science majors who are required to complete one or more physical science courses. It offers exceptional, straight-forward writing, complimented with useful pedagogical tools. Physical Science introduces basic concepts and key ideas while providing opportunities for students to learn reasoning skills and a new way of thinking about their environment. No prior work in science is assumed. The text offers students complete coverage of the physical sciences with a level of explanation and detail appropriate for all students. The sequence of chapters in Physical Science is flexible, and the instructor can determine topic sequence and depth of coverage as needed. The materials are also designed to support a conceptual approach, or a combined conceptual and problem-solving approach. With laboratory studies, the text contains enough material for the instructor to select a sequence for a two-semester course. It can also serve as a text in a one-semester physics and chemistry course.

NEW TO THIS EDITION

- Content on global warming and energy conservation has been added and updated. Chapter 3: There is a new section on Conserving Energy. Chapter 16: The material on Global Warming has been updated and revised. Chapter 23: Sections on Climate Change, Causes of Global Climate Change, and Global Warming along with a discussion of Hurricane Katrina have been added.
- Chapter 7: A new section on special relativity and general relativity (with cross references to astronomy) has been added.
- Chapter 15: The information on Pluto and the definition of planets has been updated, along with the most recent data on space exploration, space probes, and new probes.
- Applying the Concepts multiple-choice questions were revised.

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Physics
2 Motion
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4 Heat and Temperature
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7 Light
Chemistry
8 Atoms and Periodic Properties
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Astronomy
14 The Universe
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Earth Science
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Appendix A Mathematical Review
Appendix B Solubilities Chart
Appendix C Relative Humidity Table
Appendix D Solutions to Follow-UP Examples
Appendix E Solutions for Group A Parallel Exercises
LAB MANUAL TO ACCOMPANY PHYSICAL SCIENCE
8th Edition
By Bill Tillery, Arizona State University-Tempe
2009 (September 2008)
ISBN: 978-0-07-334919-0

The laboratory manual, written and classroom tested by the author, presents a selection of laboratory exercises specifically written for the interests and abilities of nonscience majors. There are laboratory exercises that require measurement, data analysis, and thinking in a more structured learning environment. Alternative exercises that are open-ended “Invitations to Inquiry” are provided for instructors who would like a less structured approach. When the laboratory manual is used with Physical Science, students will have an opportunity to master basic scientific principles and concepts, learn new problem-solving and thinking skills, and understand the nature of scientific inquiry from the perspective of hands-on experiences. The instructor’s edition of the laboratory manual can be found on the ARIS Site for Physical Science.

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3. Motion
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5. The Pendulum
6. Projectile Motion
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10. Centripetal Force
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12. Boyle’s Law
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16. Thermometer Fixed Points
17. Absolute Zero
18. Specific Heat
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21. Series and Parallel Circuits
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24. Electromagnets
25. Standing Waves
26. Speed of Sound in Air
27. Reflection and Refraction
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SCHAUM’S OUTLINE OF PHYSICAL SCIENCE
2nd Edition
By Arthur Beiser, formerly of New York University
1988 / 368 pages
ISBN: 978-0-07-004419-7
A Schaum’s Publication

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Physical Quantities.
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SCHAUM’S OUTLINE OF LAGRANGIAN DYNAMICS
By Dave Wells, University of Texas
1967 / 368 pages
A Schaum’s Publication

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Integrated Sciences

International Edition

INTEGRATED SCIENCE
4th Edition
By Bill W Tillery, Arizona State University--Tempe, Eldon Enger and Frederick C Ross of Delta College
2008 (September 2007) / 768 pages
ISBN: 978-0-07-335317-3 (with Mandatory Package)
ISBN: 978-0-07-128454-7 [IE]

www.mhhe.com/tillery

Integrated Science, Fourth Edition is a straightforward, easy-to-read, yet substantial introduction to the fundamental behavior of matter and energy in living and nonliving systems. The authors provide even, well-integrated coverage of physics, chemistry, earth science, astronomy, and biology. The text’s pedagogy (chapter outlines, core concept maps, and overviews) reveals how the science disciplines are interrelated and integrated throughout the text. This edition continues to introduce basic concepts and key ideas while providing opportunities for students to learn reasoning skills and a new way of thinking about their environment. The book is intended to serve the needs of non-science majors who are required to complete one or more science courses as part of a general or basic studies requirement. No prior work in science is assumed. The language, as well as the mathematics, is as simple as can be practical for a college-level science course.

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LAB MANUAL TO ACCOMPANY
INTEGRATED SCIENCE
4th Edition
By Bill W Tillery, Arizona State University-Tempe, Eldon Enger, Delta College and Robert S Ross, California State University-Chico
2008 (September 2007) / 416 pages
ISBN: 978-0-07-335738-6

The lab manual was written and classroom-tested by the authors of the text. It has been revised in recent editions to emphasize a more inquiry-oriented approach and to increase the number of biology labs. Each lab begins with an open-ended “Invitations to Inquiry,” designed to peak student interest in the lab concept. This is followed by laboratory exercises that require measurement and data analysis for work in a more structured learning environment. When the laboratory manual is used with Integrated Science text, students will have an opportunity to understand the nature of scientific inquiry from the perspective of hands-on experiences in order to master basic scientific principles and concepts and learn new problem-solving and thinking skills.

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Conceptual Physics

NEW
International Edition

PHYSICS OF EVERYDAY
PHENOMENA
6th Edition
By Thomas Griffith, Pacific University

2009 (September 2008) / 528 pages
http://www.mhhe.com/griffith

The Physics of Everyday Phenomena, Sixth Edition, introduces students to the basic concepts of physics using examples of common occurrences. Intended for use in a one-semester or two-semester course in conceptual physics, this book is written in a narrative style, frequently using questions designed to draw the reader into a dialogue about the ideas of physics. This inclusive style allows the book to be used by anyone interested in exploring the nature of physics and explanations of everyday physical phenomena. Beginning students will benefit from the large number of student aids and the reduced math content. Professors will appreciate the organization of the material and the wealth of pedagogical tools.

NEW TO THIS EDITION

- Five NEW and UPDATED Everyday Phenomenon boxes have been added to those already present in the text. These boxes ask students to analyze common phenomena in more detail to promote a better understanding of everyday events in students’ lives.
- Section 5.3 has been extensively rewritten to simplify and clarify the discussions of Kepler’s laws and planetary motion, including addition of a new example – example box 5.2 –using Newton’s third law. Also replaced two figures in this section with more updated figures.
- Twelve new Example boxes have been added to the text.
- End-of-Chapter Questions, Exercises, and Synthesis Problems over content related to energy issues were added where appropriate. In addition, energy-themed sample course syllabi will be placed on the text’s website.
- Figure numbers have been added to the illustrations in the end of chapter Questions, Exercises, Synthesis Problems.
NEW TO THIS EDITION

- New “Connections” feature identifies areas in each chapter where important concepts are revisited. A marginal “Connections” heading and summary adjacent to the coverage in the main text help students easily recognize that a previously introduced concept is being applied to the current discussion.
- New Checkpoint questions have been added to applicable sections of the text. The answers to the Checkpoints are found at the end of the chapter.
- Non-essential coverage and derivations have been moved from the text to the text’s online site. Identifiers in the text direct students to additional information online.
- Electronic Media Integration has been incorporated throughout the text. Icons indicate topics in the text where accompanying interactive animations and tutorials can be found online to aid in student understanding of physics concepts.
- The topical question from the chapter opening vignette now appears in the margin (along with a reduced version of the chapter opening image).
- Applications have been clearly identified as such in the text with a complete listing in the front matter.
- Many helpful subheadings have been added to the text to help students quickly identify new subtopics.
- End-of-chapter problem sets have been revised and include many new problems: over 100 new problems in total.
- The number of problems in the Review & Synthesis sections has been increased in the new edition(s); over 30 new problems in total.
- The MCAT® Review questions have been retained.

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International Edition

PHYSICS 2nd Edition
By Alan Giambattista, Betty Richardson and Robert Richardson of Cornell University-Ithaca

2010 (January 2009)
ISBN: 978-0-07-727067-4
http://www.mhhe.com/grr

Physics 2nd edition is an alternate version of the College Physics 3rd edition text by Giambattista/Richardson/Richardson. The key difference is that Physics covers kinematics and forces in the more traditional organization of beginning with Kinematics and proceeding to forces. (College Physics takes an integrated approach to forces and kinematics, introducing forces and interweaving kinematics.)
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Answers to Selected Questions and Problems

SCHAUM'S OUTLINE OF APPLIED PHYSICS
4th Edition Revised
By Arthur Beiser
2009 (May 2009) / 465 pages
A Schaum’s Publication

Applied Physics is the study of algebra-based physics, a course taken
by non-physics majors, mainly in technical schools, 2- and 4-year
community colleges and universities, who need to apply physics
to their every-day job, as opposed to focusing on further study or
theoretical physics. Applied Physics is a required course for many
engineers, mechanics, optical engineers, and other technical profes-
sions. For example, any kind of higher level mechanic or engineer,
such as those found in aviation, throughout the military, or in optical
engineering programs, study Applied Physics.

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SCHAUM'S OUTLINE OF BEGINNING PHYSICS I
By Alvin Halpern, City University of New York
1995 / 471 pages
ISBN: 978-0-07-025653-8
A Schaum’s Publication

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Introduction and Mathematical Background.
Motion in a Straight Line.
Motion in a Plane.
Forces and Equilibrium.
Newton’s Second Law.
Work and Mechanical Energy.
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Temperature and Heat.
Thermal Energy Transfer.
Gas Laws and Kinetic Theory.
Thermodynamics: The First and Second Laws.

3,000 SOLVED PROBLEMS IN PHYSICS
By Alvin Halpern
1988
ISBN: 978-0-07-025734-4
A Schaum’s Publication

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Technical Physics

NEW

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By V Rajendran

2008 (July 2008) / 625 pages
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McGraw-Hill India Title

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Medical Physics

SCHAUM'S OUTLINE OF PHYSICS FOR PRE-MED, BIOLOGY AND ALLIED HEALTH STUDENTS
By George Hademenos, University of California at Los Angeles
1998 / 256 pages
A Schaum's Publication

Students of medicine and the life sciences will appreciate the special perspective of this invaluable study guide. It explains how physics principles and concepts apply in these particular fields, including more than 70 drawings and graphs to help students visualize, understand and remember the relationships. The hundreds of problems solved step-by-step also help boost learning and grades by reinforcing the ideas and aiding recall.

Modern Physics

International Edition

CONCEPTS OF MODERN PHYSICS
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By Arthur Beiser
2003 / 560 pages
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ISBN: 978-0-07-123460-3 [IE]
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Part I: The Special Theory Of Relativity.
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Electricity & Magnetism

International Edition

BASIC ELECTRONICS FOR SCIENTISTS
5th Edition
By Manes J Brophy, formerly of University of Utah
1990 / 462 pages
ISBN: 978-0-07-100675-0 [IE]

ELECTRICITY AND MAGNETISM
Berkeley Physics Course, Volume II, 2nd Edition
By Berkeley Physics, University of California -- Berkeley
1985 / 512 pages
ISBN: 978-0-07-004908-6

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SCHAUM'S OUTLINE OF MATHEMATICS FOR PHYSICS STUDENTS
By Robert Steiner, Teachers College at Columbia University and Philip Schmidt, State University of New York-New Paltz
2007 (January 2007) / 409 pages
ISBN: 978-0-07-146158-0
A Schaum’s Publication

Schaum's Outline of Mathematics for Physics Students helps you to apply mathematical concepts to your studies and shows you how these concepts operate in physics problems. The book includes both fully solved problems and supplementary practice problems.

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3rd Edition
By Philip Bevington (Deceased) and D. Keith Robinson, Case Western Reserve University
2003 / 336 pages
ISBN: 978-0-07-247227-1
http://www.mhhe.com/bevington

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FUNDAMENTALS OF STATISTICAL AND THERMAL PHYSICS
By Frederick Reif, University of California-Berkeley
1965 / 651 pages
ISBN: 978-0-07-051800-1 (Out of Print)

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SCHAUM'S OUTLINE OF QUANTUM MECHANICS
By Elyahu Zaarur, Reuven Pnini and Yoav Peleg of formerly of the Technion Institute of Technology, Haifa, Israel
1998 / 320 pages
ISBN: 978-0-07-054018-7
A Schaum`s Publication

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International Edition

QUANTUM MECHANICS
3rd Edition
By Leonard I Schiff
1968 / 432 pages
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FUNDAMENTALS OF OPTICS
4th Edition
By Francis A Jenkins, deceased and Harvey E White, University of California, Berkeley
1976 / 746 pages
ISBN: 978-0-07-032330-8 (Out of Print)

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2. Plane Surfaces and Prisms
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12. The Superposition of Waves
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20. The Electromagnetic Character of Light
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22. Absorption and Scattering
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25. Reflection
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Introduction to Astronomy

NEW

PATHWAYS TO ASTRONOMY with Starry Nights Pro DVD, Version 5.0
2nd Edition

By Stephen E Schneider and Thomas T Arny of University of Mass-Amherst

2009 (September 2008)
http://www.mhhe.com/schneider

Pathways to Astronomy breaks down introductory astronomy into its component parts. The huge and fascinating field of astronomy is divided into 84 units. These units are woven together to flow naturally for the person who wants to read the text like a book, but it is also possible to assign them in different orders, or skip certain units altogether. Professors can customize the units to fit their course needs. They can select individual units for exploration in lecture while assigning easier units for self-study, or they can cover all the units in full depth in a content-rich course. With the short length of units, students can easily digest the material covered in an individual unit before moving onto the next unit. Pathways to Astronomy offers the most complete technology media support package available. That technology media package includes: Starry Night Planetarium Software; ARIS (text web site providing a complete online electronic homework and course management system); 23 Interactives (on ARIS); Animations (on ARIS). Electronic Media Integration has been incorporated throughout the text by the use of icons to indicate where additional understanding can be gained through an animation or interactive.

NEW TO THIS EDITION

- Latest Scientific Information and photos! Added and revised content and figures: information was updated throughout the book for clarity and to include some of the most interesting new images of astronomical events available.
- The information on Pluto and the definition of planets has been updated, along with the most recent data on space exploration, space probes, and new probes.
- Added and revised “Review Questions” and “Problems” section of every unit. There are now about twice as many Review Questions, designed for a thorough review of each Unit, and they are organized in an order that reflects the Unit content. With input from five different researchers and educators, we more than doubled the number of quantitative Problems, providing a wider range of topics and levels addressed in every Unit. End-of-Unit Material includes over 250 Review Questions, over 530 Problems, and over 250 Test Yourself Questions.
- A new looking up piece for the south polar region has been added for a total of 9 boxes. “Looking Up” boxes are designed to show students how some of the astronomical objects discussed in the text connect with the real sky that they can see overhead at night. These full-page art pieces show where a variety of frequently mentioned and important astronomical objects can be seen. Each feature presents a photograph of one or more constellations in which nebulae, star clusters, and so forth are identified and illustrated.
New seasonal star charts (spring, summer, fall, winter) have been added to the text.

Throughout the text unique symbols for each physical quantity and used consistently. Where tradition dictates that the same letter be used for different quantities (such as acceleration and semi-major axis), we have used distinctive fonts. A new symbol glossary added in the appendix will help students review the meaning of symbols in formulas.

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Unit 6 The Year
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Unit 8 Lunar Cycles
Unit 9 Calendars
Unit 10 Geometry of the Earth, Moon, and Sun
Unit 11 Planets: The Wandering Stars
Unit 12 The Beginnings of Modern Astronomy

PART II PROBING MATTER, LIGHT, AND THEIR INTERACTION
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Unit 15 Force, Acceleration, and Interaction
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ASTRONOMY: JOURNEY TO THE COSMIC FRONTIER
with Starry Night Pro DVD, Version 5.0, 5th Edition
By John D. Fix, University of Alabama--Huntsville
2008 (September 2007)
www.mhhe.com/fix

Astronomy: Journey to the Cosmic Frontier, 5th edition, provides enough content and background in astronomy so the student will be able to follow current developments in astronomy years after they complete the course. The historical development of astronomy is emphasized to show that astronomy, like other sciences, advances through the efforts of many scientists, and to show how present ideas have been developed.

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2 Patterns in the Sky
3 Ancient Astronomy
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19 The Evolution of Stars
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SCHAUM'S OUTLINE OF ASTRONOMY
By Starcey Palen, University of Washington
2002 / 304 pages
A Schaum's Publication

Providing a basic introduction to a beginning astronomy course, with an emphasis on problem-solving methods ordinarily taught "on the fly" or in ad-hoc tutorials, this essential guide provides a focused, comprehensive presentation of basic astronomical problem-solving techniques. Readers learn by example with the help of more than 200 detailed problems supplemented with over 100 detailed charts and graphs.

INVITATION TO PUBLISH
McGraw-Hill is interested in reviewing textbook proposal for publication. Please contact your local McGraw-Hill office or email to
asiapub@mcgraw-hill.com

Visit McGraw-Hill Education (Asia)
Website: www.mheducation.asia
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#### CHEMISTRY

#### 2009

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<td>Silberberg</td>
<td>9780077216504</td>
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Following in the tradition of the first five editions, the goal of this market leading textbook, Chemistry in Context, fifth edition, is to establish chemical principles on a need-to-know basis within a contextual framework of significant social, political, economic and ethical issues. The non traditional approach of Chemistry in Context reflects today’s technological issues and the chemistry principles imbedded within them. Global warming, alternate fuels, nutrition, and genetic engineering are examples of issues that are covered in CIC.

NEW TO THIS EDITION

- Material reflects that most up-to-date information available.
- Every chapter has a figure that “comes alive” through interactivity guiding the student through a learning process. This feature is on the Online Learning Center in the Student Center.

CONTENTS

1 The Air We Breathe
2 Protecting the Ozone Layer
3 The Chemistry of Global Warming
4 Energy, Chemistry, and Society
5 The Water We Drink
6 Neutralizing the Threat of Acid Rain
7 The Fires of Nuclear Fission
8 Energy from Electron Transfer
9 The World of Polymers and Plastics
10 Manipulating Molecules and Designing Drugs
11 Nutrition: Food for Thought
12 Genetic Engineering and the Molecules of Life

Appendixes

Appendix 1: Measure for Measure--Conversion Factors and Constants
Appendix 2: The Power of Exponents
Appendix 3: Clearing the Logjam
Appendix 4: Answers to Your Turn Questions Not Answered in the Text
Appendix 5: Answers to Selected End-of-Chapter Questions

LABORATORY MANUAL TO ACCOMPANY CHEMISTRY IN CONTEXT

Applying Chemistry to Society, 6th Edition

By American Chemical Society

2009 (January 2008) / 288 pages

For those whose course including a laboratory component, a Laboratory Manual, compiled and edited by Gail A. Steehler (Roanoke College), is available for the 6th edition. The experiments use microscale equipment (wellplates and Beral-type pipets) and common materials. Project-type and cooperative/collaborative laboratory experiments are included. New experiments are on the ozone and biodiesel. Additional experiments are available on the Online Learning Center, as is the instructor’s guide.

CONTENTS

1 What Am I Breathing? Preparation and Properties of O2 and CO2
2 Is it Pure or a Mixture? Chromatographic Study of Felt-Tip Pen Inks
3 Can I Spot a Trend? A Graphic Experience
4 What Protects Us from Ultraviolet Light?
5 Visibly Delighted: How Do Colored Solutions Interact with Light?
6 What Does a Molecule Look Like? Bonds, Molecular Models, and Molecular Shapes
7 How Can We Measure the Mass of a Molecule? Weighing Gases To Find Molar Masses
8 Chemical Moles: Soda to Table Salt. How Do Chemical Equations Connect Compounds?
9 Hot Stuff: An Energy Conservation Problem. Can I Measure What I Can’t See?
10 Which Fuels Provide the Most Heat? Comparison of the Energy Content of Fuels
11 Can Waste Oil be Turned into a Fuel? Biodiesel: Preparation and Properties
12 A Conductivity Detector for Ions. Can We Build Our Own Instruments?
13 How Much Acid is in Food? Analysis of Vinegar
15 How Does Human Activity Affect Water Purity? Measurement of Chloride in River Water
16 What’s in My Bottled Water?
17 Does Acid Reign?
18 Which Common Materials are Acids or Bases?
19 Does Acid Rain Fall in my Neighborhood?
20 Solubilities: An Investigation. How Do I Design My Own Lab Procedure?
21 Measurement of Radon in Air. Am I Breathing Radioactive Particles?
22 Can We Get Electricity from Chemical Reactions?
23 How Do Polymer Properties Connect to Structure?
24 Why Do Plastics Get Sorted for Recycling?
25 What Drugs are in an Analgesic Tablet? Identification by Thin-Layer Chromatography
26 How is Aspirin Made?
27 How Much Fat Is in Potato Chips and Hot Dogs?
28 How Much Sugar Is in Soft Drinks and Fruit Juices? 197
29 How Much Vitamin C is in Juice and Vitamin Tablets? 205
30 How Can We Isolate DNA? 213
Performance-Based Assessment Activities 217

SCHAUM’S OUTLINE OF BEGINNING CHEMISTRY
3rd Edition
By David Goldberg, University of Illinois – Urbana – Champaign
2005 (Dec 2004) / 384 pages
A Schaum’s Publication
This clear and complete guide to the fundamentals of chemistry features course material in a succinct outline form, together with hundreds of detailed, fully solved problems. A perfect companion to most standard texts, this third edition has been updated to include the latest pedagogic approaches; more than 670 fully worked problems of varying difficulty, designed to lead you safely through the pitfalls of the course; and hundreds more practice problems.

HOW TO SOLVE WORD PROBLEMS IN CHEMISTRY
By David E. Goldberg, Brooklyn College
2001 / 231 pages
ISBN: 978-0-07-136302-0
A Schaum’s Publication
CONTENTS
Chapter 1: Introduction.
Chapter 2: Measurement.
Chapter 3: Classical Laws of Chemical Combination.
Chapter 4: Formula Calculations.
Chapter 5: Stoichiometry.
Chapter 6: Concentration Calculations.
Chapter 7: Gas Laws.
Chapter 8: Thermochemistry.
Chapter 9: Electrochemistry.
Chapter 10: Equilibrium.
Chapter 11: Colligative Properties.
Chapter 12: Thermodynamics.
Chapter 13: Miscellaneous Problems.
List of Important Equations.

3,000 SOLVED PROBLEMS IN CHEMISTRY
By David E. Goldberg, Brooklyn College
1988 / 624 pages
ISBN: 978-0-07-023684-4
A Schaum’s Publication
CONTENTS
Measurement.
Structure of Matter.
Periodic Table.
Chemical Formulas.
Modern Structure of the Atom.
Electronic Structure of the Atom.
Bonding.
Bonding Theory.
Organic Molecules.
Chemical Equations.
Stoichiometry.
Gases.
Advanced Gas Concepts.
Solids and Liquids.
Oxidation and Reduction.
Other Concentration Units.
Properties of Solutions.
Thermodynamics.
Chemical Kinetics.
Equilibrium.
Acids and Bases.
Heterogeneous and Other Equilibria.
Electrochemistry.
Nuclear and Radiochemistry.
Nonmetals.
Metals and Metallurgy.
Coordination compounds.

Prep/Basic Chemistry

Textbooks

NEW
International Edition

A CONCEPTUAL INTRODUCTION TO CHEMISTRY
2nd Edition
By Rich Bauer, James Birk and Pamela S Marks
of Arizona State University-Tempe
2010 (January 2009)
ISBN: 978-0-07-727430-6
ISBN: 978-0-07-017262-3 [IE]
http://www.mhhe.com/bauer2e
A Conceptual Introduction to Chemistry, 2e by Bauer/Birk/Marks offers today’s student a fresh perspective to the introduction of chemistry. This new textbook offers a conceptual approach to chemistry by starting first with macroscopic phenomena, and then presenting the underlying microscopic detail. Each chapter opens with a real-life scenario that helps students connect abstract chemical concepts to their own lives. The math found in A Conceptual Introduction to Chemistry, 2e is introduced on a need-to-know basis, with “Math Toolboxes” in select chapters to help support the math skills required in that chapter.

NEW TO THIS EDITION
❖ All new Chapter 17: Biochemistry – In response to many faculty who like the approach of this textbook, but also teach Biochemistry, we added a completely new chapter on Biochemistry. The chapter
CHEMISTRY

discusses the four classes of biomolecules; proteins, nucleic acids, carbohydrates, and lipids.

- Math Toolboxes have been reworked, expanded, and now include accompanying end-of-chapter problems. To help students easily reference Math toolboxes, toolbox icons have been added to the text margin which will point students to the appropriate review material.

- The authors believe that the best approach to incorporating math involves development of associated math on an as-needed basis with emphasis on concepts that problems are trying to illustrate. This text integrates need-to-know mathematical ideas that are important to chemists into conceptual discussions. Thorough math reviews are provided in math toolboxes that are referenced within appropriate sections of the text and placed at the end of the relevant chapter.

- New and Expanded Applications – Because we know how important it is for students to apply chemistry to their world, we have added or expanded, especially medical and environmentally related applications throughout the text, marginal notes, worked examples and end-of-chapter problems.

- New and Revised End-of-Chapter Problems. We think it is important to keep problems fresh and up-to-date, so we have added more than 200 new problems and more than 100 revised problems to this edition.

CONTENTS

1 Matter and Energy
2 Atoms, Ions, and the Periodic Table
3 Chemical Compounds
4 Chemical Composition
5 Chemical Reactions and Equations
6 Quantities in Chemical Reactions
7 Electron Structure of the Atom
8 Chemical Bonding
9 The Gaseous State
10 The Liquid and Solid States
11 Solutions
12 Reaction Rates and Chemical Equilibrium
13 Acids and Bases
14 Oxidation-Reduction Reactions
15 Nuclear Chemistry
16 Organic Chemistry
17 Biochemistry
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Appendix B Toolboxes
Appendix C Answers to Practice Problems Appendix D Answers to Selected Questions and Problems
CHEMISTRY

Supplements

SCHAUM’S OUTLINE OF COLLEGE CHEMISTRY
9th Edition
By Jerome Rosenberg and Lawrence M Epstein of University of Pittsburgh and Peter Krieger, Palm Beach CC Eissey Campus
2008 (June 2007) / 392 pages
ISBN: 978-0-07-147670-6
A Schaum’s Publication

This new edition is geared for the latest developments in your subject, and covers the hottest specialties in chemistry such as forensics and materials science.

CONTENTS
Chapter 1: Quantities and Units
Chapter 2: Atomic and Molecular Mass; Molar Mass
Chapter 3: Formulas and Composition Calculations
Chapter 4: Calculations from Chemical Equations
Chapter 5: Measurement of Gas
Chapter 6: The Ideal Gas Law and Kinetic Theory
Chapter 7: Thermochemistry
Chapter 8: Atomic Structure and the Periodic Law
Chapter 9: Chemical Bonding and Molecular Structure
Chapter 10: Solids and Liquids
Chapter 11: Oxidation-Reduction
Chapter 12: Concentration of Solutions
Chapter 13: Reactions Involving Standard Solutions
Chapter 14: Properties of Solutions
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Nuclidic Masses of Selected Radionuclides
Periodic Table of the Elements

SCHAUM’S EASY OUTLINE BEGINNING CHEMISTRY
By David E. Goldberg, Brooklyn College
2004 (Oct 2003) / 144 pages
ISBN: 978-0-07-142239-0
A Schaum’s Publication

What could be better than the bestselling Schaum’s Outline series? For students looking for a quick nuts-and-bolts overview, it would have to be Schaum’s Easy Outline series. Every book in this series is a pared-down, simplified, and tightly focused version of its predecessor. With an emphasis on clarity and brevity, each new title features a streamlined and updated format and the absolute essence of the subject, presented in a concise and readily understandable form.

- Graphic elements such as sidebars, reader-alert icons, and boxed highlights stress selected points from the text, illuminate keys to learning, and give students quick pointers to the essentials.
- Designed to appeal to underprepared students and readers turned off by dense text.
- Cartoons, sidebars, icons, and other graphic pointers get the material across fast.
- Concise text focuses on the essence of the subject.
- Deliver expert help from teachers who are authorities in their fields.
- Perfect for last-minute test preparation.

So small and light that they fit in a backpack!

Allied Health/Nursing Chemistry (General, Organic and Biochemistry)

Textbooks

NEW

International Edition

GENERAL, ORGANIC & BIOLOGICAL CHEMISTRY
By Janice Gorzynski Smith, University of Hawaii-Manoa
2010 (February 2009)
ISBN: 978-0-07-727429-0
ISBN: 978-0-07-016482-6 [IE]
http://www.mhhe.com/smithGOB

This new GOB textbook is written with the same student-focused, direct writing style that has been so successful in the Smith: Organic Chemistry text. Smith writes with a bulleted approach that delivers need-to-know information in a succinct style for today’s students. Armed with an excellent illustration program full of macro-to-micro art, as well as many applications to biological, medical, consumer, and environmental topics, this book is a powerhouse of learning for students.

FEATURES
- Text written in a succinct writing style, utilizing bulleted points for emphasis of important information.
- Art program provides macro-to-micro illustrations throughout.
- Common applications of chemistry to everyday life are found in margin-placed Health Notes, Consumer Notes, and Environmental Notes, as well as “Focus on Health and Medicine,” “Focus on the Environment,” and “Focus on the Human Body” sections of the text.
- “How To” boxes provide students with detailed instructions on how to work through key processes.
- End-of-chapter sections include study aids including key reactions, key terms, and key concepts, which are tied to the chapter goals at the start of the chapter.
- Bulleted lists of important concepts. Instead of long paragraphs.
of content, the author breaks down the key concepts into bulleted lists.

- Stepped out problem solving (including Analysis and Solution), followed by related problems that contain answers in the textbook's Appendix.

CONTENTS
Chapter 1: Matter and Measurement
Chapter 2: Atoms and the Periodic Table
Chapter 3: Ionic Compounds
Chapter 4: Covalent Compounds
Chapter 5: Chemical Reactions
Chapter 6: Energy Changes, Reaction Rates, and Equilibrium
Chapter 7: Gases, Liquids, and Solids
Chapter 8: Solutions
Chapter 9: Acids and Bases
Chapter 10: Nuclear Chemistry
Chapter 11: Introduction to Organic Molecules and Functional Groups
Chapter 12: Alkanes
Chapter 13: Unsaturated Hydrocarbons
Chapter 14: Organic Compounds that Contain Oxygen, Halogen, or Sulfur
Chapter 15: The Three-Dimensional Shape of Molecules
Chapter 16: Aldehydes and Ketones
Chapter 17: Carboxylic Acids, Esters, and Amides
Chapter 18: Amines and Neurotransmitters
Chapter 19: Lipids
Chapter 20: Carbohydrates
Chapter 21: Amino Acids, Proteins, and Enzymes
Chapter 22: Nucleic Acids and Protein Synthesis
Chapter 23: Digestion and the Conversion of Food into Energy
Chapter 24: Carbohydrate, Lipid, and Protein Metabolism

International Edition

FOUNDATIONS OF GENERAL, ORGANIC AND BIOCHEMISTRY
By Katherine Denniston and Joseph Topping of Towson University
2008 (January 2007)
ISBN: 978-0-07-110227-8
http://www.mhhe.com/denniston

This new Foundations of General, Organic, and Biochemistry is designed to help undergraduate health-related majors, and students of all other majors, understand key concepts and appreciate the significant connections between chemistry, health, disease, and the treatment of disease. Foundations, just like its parent text, strikes a balance between theoretical and practical chemistry, while emphasizing material that is unique to health-related studies. Foundations of General, Organic and Biochemistry is designed for the one semester allied health chemistry course. This text has an easy-to-follow problem-solving approach, vivid illustrations, and engaging applications including timely "Chemistry at the Crime Scene" applications with "For Further Understanding" questions that follow to help the students think through what they just read. The art program, engaging and thought provoking questions, problems, and discussion topics, is what will make this book appealing to students and instructors alike.

CONTENTS
1. Chemistry: Methods and Measurement
2. The Structure of the Atom and the Periodic Table
3. Structure and Properties of Ionic and Covalent Compounds
4. Calculations and the Chemical Equation
5. Energy, Rate, and Equilibrium
7. Solutions
8. Acids and Bases
9. The Nucleus and Radioactivity
10. An Introduction to Organic Chemistry: The Saturated Hydrocarbons
11. The Unsaturated Hydrocarbons: Alkenes, Alkynes, and Aromatics
13. Carboxylic Acids, Esters, Amines, and Amides
14. Carbohydrates
15. Lipids and their Functions in Biochemical Systems
16. Protein Structure and Enzymes
17. Introduction to Molecular Genetics
18. Carbohydrate Metabolism
19. Fatty Acid and Amino Acid Metabolism
Revised Section 3.3 on Amounts of Reactants and Products in Chapter 3.
Revised the explanation of thermochemical equations in Chapter 6.
Expanded coverage on effective nuclear charge in Chapter 8.
Expanded explanation of molar heat of vaporization in Chapter 10.
Revised the section on frequency factor in the Arrhenius Equation in Chapter 13.
Further clarified the explanation of pH and also of percent ionization in Chapter 14.

CONTENTS
1 Chemistry: The Study of Change
2 Atoms, Molecules, and Ions
3 Mass Relationships in Chemical Reactions
4 Reactions in Aqueous Solutions
5 Gases
6 Thermochemistry
7 Quantum Theory and the Electronic Structure of Atoms
8 Periodic Relationships Among the Elements
9 Chemical Bonding I: Basic Concepts
10 Chemical Bonding II: Molecular Geometry and Hybridization of Atomic Orbitals
11 Intermolecular Forces and Liquids and Solids
12 Physical Properties of Solutions
13 Chemical Kinetics
14 Chemical Equilibrium
15 Acids and Bases
16 Acid-Base Equilibria and Solubility Equilibria
17 Chemistry in the Atmosphere
18 Entropy, Free Energy, and Equilibrium
19 Electrochemistry
20 Metallurgy and the Chemistry of Metals
21 Nonmetallic Elements and Their Compounds
22 Transition Metal Chemistry and Coordination Compounds
23 Nuclear Chemistry
24 Organic Chemistry
25 Synthetic and Natural Organic Polymers

Appendices
1 Derivation of the Names of Elements
2 Units for the Gas Constant
3 Thermodynamic Data at 1 atm and 25 degrees C
4 Mathematical Operations

NEW TO THIS EDITION
- NEW Review of Concepts—a quick review question or set of questions (sometimes with a visual) to test student understanding of the concept just presented.
- Key Equations are again added to the end-of-chapter material for the student and professor.
- NEW Chemistry in Action boxed essay on Boron Neutron Capture Theory in Chapter 23.
- Conceptual end-of-chapter problems have been added to reinforce the Review of Concepts. The new end-of-chapter problems include visuals for the student to interpret for the correct answer.
- Specific Chapter Changes:
  - Expanded coverage of the common oxides in naming oxoacids in Chapter 2.

COMPLIMENTARY COPIES
Complimentary desk copies are available for course adoption only. To request for a review copy:
- contact your local McGraw-Hill Representatives
- fax the Examination Copy Request Form
- email to mghasia_sg@mcgraw-hill.com
- submit online at www.mheducation.asia

Visit McGraw-Hill Education
Website: www.mheducation.asia
Silberberg’s Principles of General Chemistry offers students the same authoritative topic coverage as its parent text, Chemistry: The Molecular Nature of Matter and Change. The Principles text allows succinct coverage of content with minimal emphasis on pedagogic learning aids. This more straightforward approach to learning appeals to today’s efficiency-minded, value-conscious instructors and students without sacrificing depth, clarity, or rigor.

NEW TO THIS EDITION

- "Think of It This Way" is a new feature for the 2nd edition. Each of these small snippets of text consists of a few sentences that provide an analogy for a term they need to know. Some of these contain a small illustration to support the text.
- Sample Problems and end-of-chapter problems contain more representations of molecular art.

CONTENTS

1 Keys To The Study Of Chemistry
2 The Components Of Matter
3 Stoichiometry Of Formulas And Equations
4 Three Major Classes Of Chemical Reactions
5 Gases And The Kinetic-molecular Theory
6 Thermochemistry: Energy Flow And Chemical Change
7 Quantum Theory And Atomic Structure
8 Electron Configuration And Chemical Periodicity
9 Models Of Chemical Bonding
10 The Shapes Of Molecules
11 Theories Of Covalent Bonding
12 Intermolecular Forces: Liquids, Solids, And Phase Changes
13 The Properties Of Mixtures: Solutions And Colloids
14 The Main-group Elements: Applying Principles Of Bonding And Structure
15 Organic Compounds And The Atomic Properties Of Carbon
16 Kinetics: Rates And Mechanisms Of Chemical Reactions
17 Equilibrium: The Extent Of Chemical Reactions
18 Acid-base Equilibria
19 Ionic Equilibria In Aqueous Systems
20 Thermodynamics: Entropy, Free Energy, And The Direction Of Chemical Reactions
21 Electrochemistry: Chemical Change And Electrical Work
22 The Transition Elements And Their Coordination Compounds
23 Nuclear Reactions And Their Applications
Appendix A Common Mathematical Operations In Chemistry
Appendix B Standard Thermodynamic Values For Selected Substances At 298 K
Appendix C Equilibrium Constants At 298 K
Appendix D Standard Electrode (Half-cell) Potentials At 298 K
Appendix E Answers To Selected Problems

FEATURES

- Exciting visual program of both unique and conventional figures.
- Outstanding pedagogy for student learning. The CheckPoints, Rewind and Fast Forward Buttons are meant to enhance student understanding and comprehension by reinforcing current concepts and interconnecting new concepts to others throughout the text.
- Pre-Professional Exam Question at the end of every chapters’ problems provides a question with 2-4 multiple choice answers at a higher level thinking skill base for student practice. The main question is based upon content presented in the chapter.
- Integrated media applications—animations, Media Player files, and ARIS. Animations have been built from the Visualizing Chemistry two-page art spreads stepping out a process for the student to visualize and learn. The animations are narrated by the author, Julia Burdge and designated in the text by a Media Player icon. Other areas in the chapter where content is available for the student to download on their
Media Player is also marked with an icon. More animations are also included and designated by an icon next to the appropriate content. Finally, end-of-chapter problems are within our ARIS electronic course management and electronic homework system.

- Content—Chapter 25 is on Modern Materials including polymer, ceramics and composite, liquid crystals, biomedical materials, nanotechnology, semiconductors, and superconductors.

- McGraw-Hill’s ARIS – Assessment, Review, and Instruction System for Chemistry by Julia Burdge is a complete electronic homework and course management system. Instructors can create and share course materials and assignments with colleagues with a few clicks of the mouse. All PowerPoint lectures, assignments, quizzes, and animations are directly tied to text-specific materials. Instructors can also edit questions and algorithms, import their own content, and create announcements and due dates for assignments. ARIS has automatic grading and reporting of easy-to-assign algorithmically generated homework, quizzing, and testing. All student activity within McGraw-Hill’s ARIS is automatically recorded and available to the instructor through a fully integrated grade book that can be downloaded to Excel. Go to www.aris.mhhe.com to learn more.

- Presentation Center - Build instructional materials wherever, whenever, and however you want! Presentation Center is an online digital library containing assets such as photos, artwork, animations, PowerPoints, and other types of media that can be used to create customized lectures, visually enhanced tests and quizzes, compelling course websites, or attractive printed support materials. Access to your book, access to all books! This ever-growing resource gives instructors the power to utilize assets specific to their adopted textbook as well as content from other McGraw-Hill books in the library. Presentation Center’s dynamic search engine allows you to explore by discipline, course, textbook chapter, asset type, or keyword. Simply browse, select, and download the files you need to build engaging course materials. All assets are copyrighted by McGraw-Hill Higher Education but can be used by instructors for classroom purposes.

- enInstruction questions are available with this project and can be found within the ARIS site for this text. enInstruction is a wireless student response system that allows for the ultimate in classroom participation, giving you immediate feedback from every student.

CONTENTS
Chapter 1 Chemistry: The Central Science
Chapter 2 Atoms, Molecules, and Ions
Chapter 3 Stoichiometry: Ratios of Combination
Chapter 4 Reactions in Aqueous Solutions
Chapter 5 States of Matter I: Phase Diagrams and Gases
Chapter 6 States of Matter I: Liquids and Solids
Chapter 7 Electronic Configuration and the Periodic Table
Chapter 8 Chemical Bonding I—Basic Concepts
Chapter 9 Chemical Bonding II: Molecular Geometry and Bonding Theories
Chapter 10 Organic Chemistry
Chapter 11 Gases
Chapter 12 Intermolecular Forces and the Physical Properties of Liquids and Solids
Chapter 13 Physical Properties of Solutions
Chapter 14 Chemical Kinetics
Chapter 15 Chemical Equilibrium
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Chapter 17 Acid-Base Equilibria and Solubility Equilibria
Chapter 18 Entropy, Free Energy, and Equilibrium
Chapter 19 Electrochemistry
Chapter 20 Nuclear Chemistry
Chapter 21 Environmental Chemistry
Chapter 22 Coordination Chemistry
Chapter 23 Metallurgy and the Chemistry of Metals
Chapter 24 Nonmetallic Elements and Their Compounds
Chapter 25 Modern Materials

NEW

INTERNATIONAL EDITION

UNIVERSITY CHEMISTRY

By Brian Laird

2009 (March 2008) / 864 pages
ISBN: 978-0-07-722133-1
ISBN: 978-0-07-128774-6 [IE]
http://www.mhhe.com/laird

This dynamic new Honors General Chemistry text brings together a practical “Molecular to Macroscopic” approach, a proven problem solving approach that challenges students to think logically, along with a clear and concise writing style. Combined with the author’s teaching experience at the University of Kansas, extensive reviewing and accuracy checks, Brian Laird’s University Chemistry is certain to meet the needs of both instructor and student.

FEATURES

- Clear, concise approach to the advanced level General Chemistry course.

- Challenging in-chapter and end-of-chapter problems.

- Logical Chapter Organization- We will take the “Atoms First” approach, covering Atomic Structure in chapter one. The first four introductory chapters found in Chang 7e will be condensed and put into an appendix or offered as a short intro chapter. We will also cover thermochemistry and entropy, free energy and equilibrium state in successive chapters- 6 & 7.

CONTENTS
Chapter 0 The Basic Language of Chemistry
Chapter 1 Quantum Theory and the Electronic Structure of Atoms
Chapter 2 Many-Electron Atoms and the Periodic Table
Chapter 3 The Chemical Bond
Chapter 4 Molecular Structure and Interaction
Chapter 5 States of Matter I: Phase Diagrams and Gases
Chapter 6 States of Matter I: Liquids and Solids
Chapter 7 Thermochemistry
Chapter 8 Entropy, Free Energy and the Equilibrium State
Chapter 9 Physical Equilibria
Chapter 10 Chemical Equilibria
Chapter 11 Acids and Bases
Chapter 12 Solution Equilibria
Chapter 13 Electrochemistry
Chapter 14 Chemical Reaction Kinetics
Chapter 15 Chemistry of Transition Metals
Chapter 16 Organic and Polymer Chemistry
Chapter 17 Nuclear Chemistry
APPENDIX 1: Units and Mathematical Background
APPENDIX 2: Thermoodynamic Data at 1 bar and 250°C (Source: Appendix 3 9e – modified)
APPENDIX 3: Derivation of the Names of the Elements (Source: Appendix 1 9e)
APPENDIX 4: Stable and Unstable Isotopes of the First Ten Elements
NEW TO THIS EDITION

- ARIS for General Chemistry
McGraw-Hill’s ARIS – Assessment, Review, and Instruction System for Chemistry: The Molecular Nature of Matter and Change is a complete electronic homework and course management system. Instructors can create and share course materials and assignments with colleagues with a few clicks of the mouse. All PowerPoint lectures, assignments, quizzes, and animations are directly tied to text-specific materials. Instructors can also edit questions and algorithms, import their own content, and create announcements and due dates for assignments. ARIS has automatic grading and reporting of easy-to-assign algorithmically generated homework, quizzes, and testing. All student activity within McGraw-Hill’s ARIS is automatically recorded and available to the instructor through a fully integrated grade book and student activity within McGraw-Hill’s ARIS is automatically recorded and available to the instructor through a fully integrated grade book that can be downloaded to Excel.

- New molecular end-of-chapter problems, including molecular art!

- Many completely new comprehensive problems have been added to this 5th edition, which follow the main end-of-chapter problems. Silberberg offers three types of problems: Concept Review Questions test students’ general understanding of key ideas in the chapter. Skill-Building Exercises are written in pairs, with one of each pair answered in the back of the book. These exercises begin simply and increase gradually in difficulty. Problems in Context apply the skills learned to interesting scenarios and examples. These three types of problems, which are keyed by chapter section, are followed by a group of Comprehensive Problems that are presented in any order, include problems from every section, and often call on concepts and skills learned in earlier chapters.

- New Design! The 5th edition’s design utilizes more subtle colors and design changes allow for more white space.

CONTENTS

1 Keys to the Study of Chemistry
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5 Gases and the Kinetic-Molecular Theory
6 Thermochemistry: Energy Flow and Chemical Change
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9 Models of Chemical Bonding
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11 Theories of Covalent Bonding
12 Intermolecular Forces: Liquids, Solids, and Phase Changes
13 The Properties of Mixtures: Solutions and Colloids
14 Periodic Patterns in the Main-Group Elements: Bonding, Structure, and Reactivity
15 Organic Compounds and the Atomic Properties of Carbon
16 Kinetics: Rates and Mechanisms of Chemical Reactions
17 Equilibrium: The Extent of Chemical Reactions
18 Acid-Base Equilibria
19 Ionic Equilibria in Aqueous Systems
20 Thermodynamics: Entropy, Free Energy, and the Direction of Chemical Reactions
21 Electrochemistry: Chemical Change and Electrical Work
22 The Elements in Nature and Industry
23 The Transition Elements and Their Coordination Compounds
24 Nuclear Reactions and Their Applications
Appendix A Common Mathematical Operations in Chemistry
Appendix B Standard Thermodynamic Values for Selected Substances at 298 K
Appendix C Equilibrium Constants at 298 K
Appendix D Standard Electrode (Half-Cell) Potentials at 298 K
SCHAUH'S OUTLINE OF COLLEGE CHEMISTRY
9th Edition
By Jerome Rosenberg and Lawrence Epstein of University of Pittsburgh and Peter Krieger, Palm Beach CC Eissey Campus
2008 (June 2007) / 400 pages
ISBN: 978-0-07-147670-6
A Schaum's Publication

The best and most up-to-date study guide of its kind, this book summarizes the chemical principles of a first course in college chemistry through problems with clearly explained solutions. This new edition reflects changes in the major current textbooks, and it contains up-to-date information about newer techniques used in environmental chemistry, biochemistry and medicinal chemistry.

CONTENTS
Chapter 1: Quantities and Units
Chapter 2: Atomic and Molecular Mass; Molar Mass
Chapter 3: Formulas and Composition Calculations
Chapter 4: Calculations from Chemical Equations
Chapter 5: Measurement of Gas
Chapter 6: The Ideal Gas Law and Kinetic Theory
Chapter 7: Thermochemistry
Chapter 8: Atomic Structure and the Periodic Law
Chapter 9: Chemical Bonding and Molecular Structure
Chapter 10: Solids and Liquids
Chapter 11: Oxidation-Reduction
Chapter 12: Concentration of Solutions
Chapter 13: Reactions Involving Standard Solutions
Chapter 14: Properties of Solutions
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Chapter 16: Thermodynamics and Chemical Equilibrium
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Periodic Table of the Elements

INTERNATIONAL EDITION

UNDERSTANDING CHEMISTRY
Student Study Guide
By Charles Lovett and Raymond Chang of Williams College
2005 (Jan 2004) / 208 pages
ISBN: 978-0-07-255553-0
ISBN: 978-0-07-121595-4 [IE]
http://www.understandingchemistry.com

CONTENTS
A User Friendly Guide to General Chemistry
In the Beginning
Building a Foundation
Chemical Reactions
Reactants to Products
Energy Changes in Chemical Reactions
Atomic Structure and the Periodic Table
Chemical Bonding
Chemical Equilibrium
Glossary

SCHAUH'S A-Z CHEMISTRY
By Andrew Hunt
2004 / 400 pages
A Schaum's Publication

Schaum's A-Z handbooks make excellent complements to course textbooks and test preparation guides. Ideal for ambitious high school seniors--especially AP students--and college freshmen, they feature concise, thoroughly cross-referenced definitions of hundreds of key terms and phrases that help students quickly break through the jargon barrier. Clear explanations of key concepts, supplemented with lucid illustrations, help build mastery of theory and provide a ready reference to supplement class work. Each entry begins with a clear, one-sentence definition and is followed by an explanation and examples.

- A-to-Z format for ready reference
- Clear definitions and explanations, cross-referenced and enhanced with numerous worked examples and illustrations
- Extended explanations of more important concepts
- Review lists of entries that relate to main topics in the Appendix aid review

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CHEMISTRY

SCHAUM'S EASY OUTLINES: COLLEGE CHEMISTRY
By Jerome Rosenberg and Lawrence M. Epstein of University of Pittsburgh
2000 / 156 pages
ISBN: 978-0-07-052714-8
A Schaum's Publication

CONTENTS
Quantities and Units.
Moles and Empirical Formulas.
Calculations Based on Chemical Equations.
Concentration and Solution Stoichiometry.
The Ideal Gas Law and Kinetic Theory.
Thermochemistry.
Atomic Structure.
Chemical Bonding and Molecular Structure.
Solids and Liquids.
Oxidation-Reduction.
Properties of Solutions.
Thermodynamics and Chemical Equilibrium.
Acids and Bases.
Precipitates and Complex Ions.
Electrochemistry.
Rates of Reactions.
Appendix: Table of Atomic Masses.

Lab

International Edition

COOPERATIVE CHEMISTRY LAB MANUAL
4th Edition
By Melanie M. Cooper, Clemson University

2009 (January 2008) / 176 pages

The laboratory course described in the lab manual emphasizes experimental design, data analysis, and problem solving. Inherent in the design is the emphasis on communication skills, both written and oral. Students work in groups on open-ended projects in which they are given an initial scenario and then asked to investigate a problem. There are no formalized instructions and students must plan and carry out their own investigations.

FEATURES
• This lab manual has a unique approach. It takes a cooperative learning, peer evaluation approach.
• This lab manual contains authentic real world experiments. Example is the lab on designing a calcium supplement.
• There is a description of Lab techniques and their uses included in this manual. The basic steps are given, however the students need to logically think through the steps of the experiment.

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Project 15: What Affects the Rate of a Reaction?

Biochemistry-1 Semester

Textbooks

International Edition

BIOCHEMISTRY
An Introduction, 3rd Edition
By Gertrude McKee, Thomas Jefferson University and James R McKee, Philadelphia College Pharmacy
2003 / 800 pages

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Part I: Fundamental Concepts
1 Biochemistry: An Introduction
2 Living Cells
3 Water: The Medium of Life
4 Energy
art II: Structures and Metabolism of Proteins, Carbohydrates, and Lipids
5 Amino Acids, Peptides, and Proteins
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14 Nitrogen Metabolism I: Synthesis
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13 Ethers, Epoxides, Glycols, and Thioethers.
14 Carbonyl Compounds: Aldehydes and Ketones.
15 Carboxylic Acids and Their Derivatives.
16 Carbanion-Enolates and Enols.
17 Amines.
18 Phenolic Compounds.
19 Aromatic Heterocyclic Compounds.

ORGANIC CHEMISTRY DEMYSTIFIED

By Daniel Bloch

2006 (March 2006) / 551 pages
ISBN: 978-0-07-145920-4

A Schaum’s Publication

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ACKNOWLEDGMENTS
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Organic Chemistry

Textbooks

International Edition

ORGANIC CHEMISTRY

7th Edition

By Francis Carey, University of VA-Charlottesville

2008 (January 2007)

http://www.mhhe.com/carey7e

Throughout all seven editions, Organic Chemistry has been designed to meet the needs of the "mainstream," two-semester, undergraduate organic chemistry course. This best-selling text gives students a solid understanding of organic chemistry by stressing how fundamental reaction mechanisms function and reactions occur. With the addition of handwritten solutions, new cutting-edge molecular illustrations, updated spectroscopy coverage, seamless integration of molecular modeling exercises, and state-of-the-art multimedia tools, the 7th edition of Organic Chemistry clearly offers the most up-to-date approach to the study of organic chemistry.

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International Edition

3000 SOLVED PROBLEMS IN ORGANIC CHEMISTRY
By Herbert Meislich, City College of CUNY, Estelle Meislich, Bergen Community College and Jacob Sharefkin, Formerly Brooklyn College
1994 / 704 pages
ISBN: 978-0-07-056424-4
ISBN: 978-0-07-113969-4 [IE]
A Schaum’s Publication

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Acid Derivatives
Carbanion-Enolates and Enols
Amines
Phenols and Their Derivatives
Aromatic Heterocyclic Compounds
Amino Acids, Peptides, and Proteins
Carbohydrates.

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Visit McGraw-Hill Education
Website: www.mheducation.asia
Ira N. Levine’s sixth edition of Physical Chemistry provides students with an in-depth fundamental treatment of physical chemistry. At the same time, the treatment is made easy to follow by giving full step-by-step derivations, clear explanations and by avoiding advanced mathematics unfamiliar to students. Necessary math and physics have thorough review sections. Worked examples are followed by a practice exercise.

NEW TO THIS EDITION

- Additional homework problems testing the qualitative understanding of physical chemistry content has been integrated into this edition.
- The in-chapter examples are written to lead the student to a clearly worked-out answer. The examples are followed by a corresponding exercise requiring the student to practice the same thought process. The answer for each exercise is also given.
- Completeness: The book gives the student careful definitions and explanations of concepts, full details of most derivations, and reviews of relevant topics in mathematics and physics. A mix of theoretical and practical applications is presented.

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1 Thermodynamics
2 The First Law of Thermodynamics
3 The Second Law of Thermodynamics
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5 Standard Thermodynamic Functions of Reaction
6 Reaction Equilibrium in Ideal Gas Mixtures
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8 Real Gases
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<tr>
<td>Principles of Environmental Science, 5e</td>
<td>Cunningham</td>
<td>9780077270643</td>
<td>162</td>
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</table>
Environmental science often seems to focus on the negative, since one of the outcomes of any analysis of an environmental situation is to highlight problems and point out where change is needed.

- However, we often overlook the many positive actions of individuals and organizations. Therefore, in this edition there are three new features that call attention to the positive.
- Going Green case studies describe actions that are having a positive environmental impact. Some of these actions are by governments, some are by corporations, and some are individual efforts. These case studies are identified by the “Going Green” icon.
- Campus Sustainability Initiatives highlight some of the many actions of students and the colleges and Universities they attend that are making a positive environmental impact.
- Thinking Green is an end-of-chapter feature that asks students to consider making changes that will have a positive environmental impact.
- The concept of interrelatedness is a core concept in environmental science. Although this concept can be illustrated in many ways, in this edition we have chosen to use water as a theme. In every chapter appears a water-themed case study, identified by the “water theme” icon. Sometimes the topic of water is also addressed as a heading in the text.
- Every chapter has new Going Green and water-themed case studies and a Campus Sustainability Initiative box. In addition many chapters have other significant changes. These are highlighted below.
- Chapter 1 Environmental Interrelationships has a new section entitled Interrelatedness is a Core Concept which uses as a theme John Muir’s statement “Tug on anything at all and you'll find it connected to everything else in the universe.” It then highlights the changes brought about by the reintroduction of wolves into Yellowstone National Park to show how one simple change has far ranging impacts. A new illustration accompanies this addition.

NEW TO THIS EDITION

- Environmental science often seems to focus on the negative, since one of the outcomes of any analysis of an environmental situation is to highlight problems and point out where change is needed.

CONTENTS

1. Environmental Interrelationships
2. Environmental Ethics
3. Environmental Risk: Economics, Assessment, and Management
5. Interactions: Environments and Organisms
6. Biodiversity Issues
7. Populations: Characteristics and Issues
8. Energy and Civilization
9. Energy Sources
10. Nuclear Energy
11. Biodiversity Issues
12. Land-Use Planning
13. Soil and Its Uses
14. Agricultural Methods and Pest Management
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17. Solid Waste Management and Disposal
18. Environmental Regulations: Hazardous Substances and Wastes
19. Environmental Policy and Decision Making

Appendix 1: Periodic Table of the Elements
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Each chapter opens with “Learning Outcomes” that will help students organize study priorities. Rather than being imperative requirements, these objectives have been changed to more active questions that lead rather than command.

Because few of us learn effectively without an opportunity to actively apply new ideas, new “Active Learning” boxes have been included throughout the text. These boxes provide a break in reading and invite students to practice or apply skills they have just learned.

Each chapter opens with “Learning Outcomes” that will help students organize study priorities. Rather than being imperative requirements, these objectives have been changed to more active questions that lead rather than command.

Numerous new photos have been added throughout the text to depict real-life situations. Several illustrations, graphs, and charts are new or revised to present realistic and current information in a form that is easier to comprehend than if that same material were presented in text.

Data Analysis Exercises, found at the end of chapters, allow students to practice analyzing data, graphing data, and thinking analytically. In each exercise, students are asked to create or analyze graphs, to map or inspect a data set, or take other steps to analyze data.

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1 Understanding Our Environment
2 Environmental Systems: Connections, Cycles, Flows, and Feedback Loops
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7 Food and Agriculture
8 Environmental Health and Toxicology
9 Air: Climate and Pollution
10 Water: Resources and Pollution
11 Environmental Geology and Earth Resources
12 Energy
13 Solid and Hazardous Waste
14 Economics and Urbanization
15 Environmental Policy and Sustainability
CONTENTS
Learning to Learn
Part One Principles for Understanding Our Environment
1 Understanding Our Environment
2 Frameworks for Understanding: Science, Systems, and Ethics
3 Matter, Energy, and Life
4 Evolution, Biological Communities, and Species Interactions
5 Biomes: Global Patterns of Life
6 Population Biology
Part Two People in the Environment
7 Human Populations
8 Environmental Health and Toxicology
9 Food and Agriculture
10 Pest Control
Part Three Understanding and Managing Living Systems
11 Biodiversity
12 Land Use: Forests and Grasslands
13 Preserving and Restoring Nature
Part Four Physical Resources and Environmental Systems
14 Geology and Earth Resources
15 Air, Weather, and Climate
16 Air Pollution
17 Water Use and Management
18 Water Pollution
Part Five Issues and Policy
19 Conventional Energy
20 Sustainable Energy
21 Nuclear Power
22 Renewable Energy and Energy Efficiency
23 Materials, Society, and the Environment
24 A Sustainable Future: Will Business as Usual Get Us There?

GLOBAL WARMING AND CLIMATE CHANGE DEMYSTIFIED
By Jerry Silver
2008 / 289 pages
A Professional Reference Title
Global Warming & Climate Change Demystified starts by looking at scientific data gathered from weather instruments, satellite telemetry, ice cores, and coral sections that reveal how the Earth’s temperature is changing. The book goes on to examine the causes of climate change, including both natural processes and human-generated greenhouse gases. Finally, the consequences of global warming are discussed and a wide variety of viable solutions that can be implemented by individuals as well as society as a whole are presented. Complete with end-of-chapter quizzes and a final review to test your knowledge, this book will teach you the fundamentals of global warming and climate change in an unbiased and thorough manner.

CONTENTS
Acknowledgments
Chapter 1. Global Perspective--Thinking About the Earth
PART ONE: WHAT WE KNOW AND HOW WE KNOW IT
Chapter 2. Taking the Earth’s Temperature
Chapter 3. Signs of Global Warming
PART TWO: WHY CLIMATE CHANGES
Chapter 4. The Earth’s Thermostat--Keeping the Earth Warm
Chapter 5. Greenhouse Chemistry
Chapter 6. Origin and Impact of Greenhouse Gases
PART THREE: WHAT WE CAN EXPECT AND WHAT WE CAN DO
Chapter 7. Consequences of Global Warming
Chapter 8. Resetting the Earth’s Thermostat--Solutions
Appendix A. Glossary
Appendix B. Milestones in the History of Climate Change
Appendix C. Satellites That Monitor Weather and Climate
Appendix D. Units of Measurement Applied to Climate Change
Appendix E. Selected Resources
Appendix F. Summary of Key Climate Variables
Appendix G. Lingering Doubts and Concerns
Appendix H. Answers to Chapter Review Questions
Appendix I. Answers to Final Exam
Index
NEW TO THIS EDITION

- The introduction now links the historical foundations of ecology with developing frontiers. Emphasis is placed on how new tools, such as stable isotope analysis and canopy access cranes, provide more powerful ways of investigating ecological systems, as we explore and attempt to sustain biodiversity in the face of global climate change and other environmental pressures.

- The evolutionary foundation for the book has been strengthened. The chapter on population genetics and natural selection has been moved from 8th position, in section III, to 4th, in section I. Section I is now titled Natural History and Evolution. Moving evolution to this point in the text sets all the material to follow in a stronger evolutionary framework. This is particularly significant to section II, which retitled Evolution of Species Abundance and Diversity.

- The overall conceptual foundation of the text has been enriched. New concepts presented include the principle of allocation, apparent mutualism and the ecology of fear.

- The treatment of nutrient cycling has been improved. The nutrient cycling presentation now appears under its own umbrella concept and is buttressed by the addition of central concepts, including nutrient sinks, sources, fluxes, and pools, which are critical for understanding contemporary issues related to the buildup of atmospheric carbon dioxide.

- Lessons learned through the Investigating the Evidence boxes enrich the graphical presentation. Confidence intervals and standard error bars are added to selected graphs once the statistical concepts are introduced in section IV.

- New supplementary materials placed online. Suggested readings, answers to concept review questions and answers to critiquing the evidence questions are now online. In addition, examples cut from the fourth edition are also available online.

- New chapter opener photos, related to chapter content, have been added to enrich the visual presentation of ecology.
17 Species Interactions and Community Structure
18 Primary Production and Energy Flow
19 Nutrient Cycling and Retention
20 Succession and Stability

Section VI Large-Scale Ecology
21 Landscape Ecology
22 Geographic Ecology
23 Global Ecology

Evolution

INTRODUCTION TO BIOLOGICAL EVOLUTION
2nd Edition
By Kenneth Kardong, Washington State University-Pullman
2008 (January 2007) / 416 pages
ISBN:978-0-07-128582-7 [IE]

http://www.mhhe.com/kardongevolution2e

Written for a general college audience, this book offers an introduction to the principles and significance of Darwinian evolution. It differs from most other textbooks on evolution in three fundamental ways: First, it is intended for students taking evolution early in their studies. Second, it examines the intellectual significance of Darwinian evolution. Third, the text departs from the standard treatment of evolution in other textbooks, wherein the arguments are reductionist, molecular, and overwhelmingly genetic in emphasis. Ken Kardong, also author of Vertebrates: Comparative Anatomy, Function, Evolution, is known for his accessible writing style. His almost conversational approach to this topic puts the reader at ease while learning evolutionary concepts. The result is an inviting book—that will be read.

CONTENTS
1 Evolution of Evolution
2 Time
3 Heredity
4 Emergence of Life
5 Diversity of Life
6 Evidence of Evolution
7 Selection
8 Variation: Spice of Life
9 Speciation
10 Co-Evolution
11 Life History Strategies
12 Life in Groups
13 Extinctions
14 Human Evolution: The Early Years
15 Human Evolution: Building Modern Humans
16 Evolutionary Biology: Today and Beyond
17 Afterword
Appendix 1 Cell Division—A Review
Appendix 2 Taxonomy
Appendix 3 Molecular Clocks

NEW
ECOLOGY LAB MANUAL
By Darrell S Vodopich, Baylor University
2010 (February 2009) / 256 pages
ISBN: 978-0-07-338318-7

Darrell Vodopich, co-author of Biology Laboratory Manual, has written a new lab manual for ecology. This lab manual offers straightforward procedures that are do-able in a board range of classroom, lab and field situations.

FEATURES
- Straightforward, do-able procedures.
- Procedures are do-able in a broad range of classroom, lab, and field situations.
- Procedures have specific instructions that can be taught by a teaching assistant with minimal experience as well as by a professor.
- Emphasis on lab and field activity rather than detailed theoretical presentations.
- Manual is about doing ecology, not just reading theoretical information.
- Key Terms – boldfaced at first occurrence.
- Numbered lists
- Tables
- Questions following A heads.
- Questions for Further Thought and Study are found at the end of each chapter.

CONTENTS
1 The Nature of Data
2 The Process of Science
3 Soil Analysis
4 Oxygen and Carbon Dioxide Cycling
5 Population Growth
6 Age Distribution and Survivorship
7 Terrestrial Plant Community Assessment
8 Stream Ecosystem Assessment
9 Micro Community Assessment
10 Sampling a Plant Community
11 Sampling Animal Communities
12 Species Diversity
13 Primary Production in an Aquatic Community
14 Competition

NEW
LABORATORY

15 Natural Selection
16 Adaptations of Vertebrates to Their Environment
17 Adaptations of Plants to Their Environment
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# NEW TITLES

## GEOGRAPHY

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<td>Physical Geography Laboratory Manual</td>
<td>Lemke</td>
<td>9780077276034</td>
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INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS WITH DATA FILES CD-ROM
5th Edition

By Kang-Tsung (Karl) Chang

2010 (January 2009)
ISBN: 978-0-07-729436-6
http://www.mhhe.com/changgis5e

Introduction to Geographic Information Systems, 5e is designed to provide students in a first or second GIS course with a solid foundation in both GIS concepts and the use of GIS. Introduction to GIS strikes a careful balance between GIS concepts and hands-on applications. The main portion of the chapter presents GIS terms and concepts and helps students learn how each one fits into a complete GIS system. At the end of each chapter, an application section with 2-7 tasks presents students with actual GIS exercises and the necessary data to solve the problem.

NEW TO THIS EDITION

This edition has combined georelational and object-based vector data models into one chapter. A couple of years ago the majority of GIS users were still using georelational vector data such as shapefiles. But now many have turned to object-based vector data such as the geodatabase. Therefore it makes sense to combine these two data models into a chapter and simply call the chapter vector data model.

NEW TO THIS EDITION

- New and updated information on:
  - Joins, relates, and relationship classes (Chapter 8)
  - Cartographic representation (Chapter 9)
  - Point pattern analysis (Chapter 11)
  - Viewshed analysis (Chapter 14)
  - Geocoding (Chapter 15).

CONTENTS

1 Introduction
2 Coordinate Systems
3 Vector Data Model
4 Raster Data Model
5 GIS Data Acquisition
6 Geometric Transformation
7 Spatial Data Editing
8 Attribute Data Management
9 Data Display and Cartography
10 Data Exploration
11 Vector Data Analysis
12 Raster Data Analysis
13 Terrain Mapping and Analysis
14 Viewsheds and Watershed
15 Spatial Interpolation
16 Geocoding and Dynamic Segmentation
17 Path Analysis and Network Applications
18 GIS Models and Modeling
Fellmann’s Human Geography introduces students to the scope and excitement of human geography and its relevance to their daily lives. This edition continues to convey the breadth of human geography and to provide insight into the nature and intellectual challenges of the field of geography itself. The authors pay special attention to gender issues and assume no previous experience in geography on the part of the students.

CONTENTS
1 Introduction: Some Background Basics
Part 1 Themes and Fundamentals of Human Geography
2 Roots and Meaning of Culture
3 Spatial Interaction and Spatial Behavior
4 Population: World Patterns, Regional Trends
Part 2 Patterns of Diversity and Unity
5 Language and Religion: Mosaics of Culture
6 Ethnic Geography: Threads of Diversity
7 Folk and Popular Culture: Diversity and Uniformity
Part 3 Dynamic Patterns of the Space Economy
8 Livelihood and Economy: Primary Activities
9 Livelihood and Economy: From Blue Collar to Gold Collar
10 Patterns of Development and Change
Part 4 Landscapes of Functional Organization
11 Urban Systems and Urban Structures
12 The Political Ordering of Space
Part 5 Human Actions and Environmental Impacts
13 Human Impacts on Natural Systems
Appendix A Map Projections
Appendix B 2006 World Population Data
Appendix C Anglo America Reference Map

This market-leading book introduces college students to the breadth and spatial insights of the field of geography. The authors’ approach allows the major research traditions of geography to dictate the principal themes. Chapter 1 introduces students to the four organizing traditions that have emerged through the long history of geographical thought and writing: earth science, culture-environment, location, and area analysis. Each of the four parts of this book centers on one of these geographic perspectives.

NEW TO THIS EDITION
- Updating of facts and analyses have been made in such things as production and consumption of natural resources, in spatially variable patterns of population growth and decline, and in the population of major urban areas.
- New or revised treatment on virtual and interactive maps in chapter 2.
- New or revised content on the reports of the Intergovernmental Panel on Climate, ethanol production in the US, migration patterns and urban sprawl.

CONTENTS
1 Introduction
2 Maps
Part 1 The Earth Science Tradition
3 Physical Geography: Landforms
4 Physical Geography: Weather and Climate
5 The Geography of Natural Resources
Part 2 The Culture-Environment Tradition
6 Population Geography
7 Cultural Geography
8 Spatial Interaction
9 Political Geography
Part 3 The Location Tradition
10 Economic Geography
11 An Urban World
12 Human Impact on the Environment
Part 4 The Area Analysis Tradition
13 The Regional Concept
Appendices
Glossary
Index
The transformations that have occurred in Singapore’s landscape have been rapid since independence. Changing Landscapes of Singapore discusses these changes from the perspective of lived landscapes which have day-to-day meanings for Singaporeans. It begins with an exploration of the major physical changes resulting from rapid urbanisation and industrialisation and Singapore’s attempt to balance the stresses of physical development with the needs of a green agenda. Several other themes relating to landscape change follow. A section on landscapes of community and nationhood investigates how issues concerning shelter (public housing), heritage conservation, street-names and national symbols affect Singaporeans’ notions of belonging. This is followed by a discussion on globalisation and the way it affects the nation-state’s development. This section examines not only Singapore’s efforts at regionalisation and its attempt to gain a better foothold in the workings of the global capitalistic system but also evaluates the impacts of globalisation on the society. The last section on forgotten landscapes is a reminder of who and what may be left behind in striving for excellence. Landscapes reveal and reflect forgotten needs as much as they record what have been remembered and valued. The various strands are brought together in the final chapter where the landscape is used as a lens to raise questions on future challenges. While intended as a general text for university students, this book will also provide source materials for school teachers (junior college and upper secondary levels), the general student population as well as the general reader interested in understanding the country’s rapid landscape changes.

CONTENTS
1 Introduction: Changing Landscapes of Singapore
Part I NATURAL ENVIRONMENTS AND ENGINEERED LANDSCAPES
2 Environmental Planning and Management
3 Engineered Biophysical Landscapes: Parks and Open Spaces for Recreation
Part II LANDSCAPES OF COMMUNITY AND NATIONHOOD
4 Urbanisation and Landscape Changes
5 The Nation, Its Signs and Symbols: Street-names and Monuments
6 Public Housing: The Housing of a Nation
7 Landscapes of Heritage: Historic and Cultural Districts
Part III LANDSCAPES OF GLOBALISATION
8 Achieving Global City Status: Industrial Restructuring and Regionalisation
9 Tourism Capital: Reinterpreting Tourism Space
10 Transnational Connectivities and Local Tensions
Part IV FORGOTTEN LANDSCAPES
11 Neglected Landscapes: Old and Forgotten Singaporeans
12 Landscapes of Death: Cemeteries, Crematoria and Columbaria
13 Changing Landscapes and Future Challenges: A Review

Physical Geography Laboratory Manual
By Karen Lemke, Michael Ritter and Neil Heywood of University of Wisc Stevens Point

FEATURES
- A total of 21 exercises are included in the Lemke et al: Physical Geography Laboratory Manual, providing comprehensive coverage of the four spheres of the environment—the atmosphere, biosphere, hydrosphere, and lithosphere.
- Each exercise includes clearly stated Purpose, Learning Objectives, Introduction, and list of Important Terms in addition to the narrative and exercise worksheets.
- Fully worked examples (e.g., determining noon sun angle) immediately follow the description of an exercise and its instructions.
- Full-color artwork, photographs, and especially topographical maps appear within Appendices E and F.
- Exercise worksheets include a combination of short answer, essay, and numerical solution (math problems) type of questions.

CONTENTS
EXERCISES
1. Earth-Sun Geometry and Insolation
2. Radiation and Energy Balance at the Earth’s Surface
3. Atmospheric Temperature
4. Atmospheric Pressure, Circulation and Wind
5. Water in the Atmosphere
6. Lapse Rates, Adiabatic Processes and Cloud Development
7. Midlatitude Weather and Weather Map Interpretation
8. Climate Classification and Regional Climates
9. Soil Moisture Budgets
10. Analysis of Soil Moisture Properties
11. Climate, Net Primary Production and Decomposition
12. Vegetation Form and Range
13. Bioclimatic Transects
14. Coincident Climates, Vegetation and Soils
15. Rainforest Regeneration Analysis Using Aerial Imagery
16. Introduction to Topographic Maps
17. Igneous Landforms
18. Drainage Basin Analysis

EXERCISES
This introductory textbook introduces students to the different types of map projections, map design, and map production. Cartography is generally for a sophomore or junior level course for geography majors and many professors are beginning to introduce computer cartography throughout the course.

NEW TO THIS EDITION

- NEW authors: Jeffrey S. Torguson and Thomas W. Hodler.
- Improved internal organization within chapters.
- A new chapter on virtual and web mapping (Chapter 17).
- Increased coverage of cartographical GIS.
- An EXPANDED 16-page Color Plate section.
- NEW updated maps and graphics.

CONTENTS

PART I THEMATIC MAPPING ESSENTIALS
1 Introduction to Thematic Mapping
2 Basic Geodesy, Coordinate Systems, and Scale
3 Map Projections
4 The Nature of Geographic Data and the Selection of Thematic Map Symbols
5 Descriptive Statistics and Data Classification

PART II TECHNIQUES OF QUANTITATIVE THEMATIC MAPPING
6 Mapping Enumeration and Other Areally Aggregated Data: The Choropleth Map
7 The Dot Density Map
8 From Point to Point: The Proportional Symbol Map
9 Mapping Geographic Surfaces: Isarithmic and Three-Dimensional Maps
10 The Cartogram: Value-by-Area Mapping

11 Dynamic Representation: The Design of Flow Maps

PART III DESIGNING THEMATIC MAPS
12 The Map Design Process and the Elements of Map Composition
13 Making the Map Readable: The Intelligent Use of Type
14 Principles for Color Thematic Maps

PART IV MAP PRODUCTION
15 Printing Fundamentals and Prepress Operation for the Cartographer
16 Introduction to Virtual and Web Mapping

PART V EFFECTIVE GRAPHING FOR CARTOGRAPHERS
17 Effective Graphing for Cartographers

APPENDIXES

International Edition

MAP USE AND ANALYSIS
4th Edition
By John Campbell, University of Wisconsin – Parkside
2001 / 384 pages
ISBN: 978-0-07-303748-6
www.mhhe.com/earthsci/geography/campbell4e

CONTENTS

Chapter 1 Introduction
Chapter 2 Basic Mapping Processes
Chapter 3 Map Projections
Chapter 4 Locational and Land-Partitioning Systems
Chapter 5 Scale and Generalization Concepts
Chapter 6 Measurement from Maps
Chapter 7 Route Selection and Navigation
Chapter 8 Terrain Representation
Chapter 9 Contour Interpretation
Chapter 10 Topographic Features
Chapter 11 Qualitative and Quantitative Information
Chapter 12 Characteristics of Map Features: Shape and Point Patterns
Chapter 13 Characteristics of Map Features: Networks and Trees
Chapter 14 Cartograms and Special Purpose Maps
Chapter 15 Maps and Graphs
Chapter 16 Map Misuse
Chapter 17 Remote Sensing from Airborne Platforms
Chapter 18 Remote Sensing from Space
Chapter 19 Computer-Assisted Cartography
Chapter 20 Digital Map Applications
Chapter 21 Geographic Information Systems

Appendixes:
A U.S. and Canadian Map Producers and Information Sources
B Foreign Maps
C Copyright
D Magnetic Compass Use E Map Storage and Cataloging Systems
F British National Grid
CONTINGENCY WORLD REGIONAL GEOGRAPHY
3rd Edition
By Michael Bradshaw, College of St Mark & John, Joseph Dymond, George Washington University, George White, Frostburg State University and Elizabeth Chacko, George Washington University

2009 (September 2009) / 624 pages
ISBN: 978-0-07-128451-6 [IE]

http://www.mhhe.com/bradshaw3e

Contemporary World Regional Geography provides a current, balanced geographical study of world issues through analysis of ten world regions and the countries in each. It integrates the themes of "global connections" and "local voices" and utilizes a consistent structure within each chapter. NEW to the 3rd edition, each chapter is now organized to begin with environmental issues of the region followed by historical geography, global and local issues and economic, political, cultural, and social issues. The greatest advantage of the new organization is that students will be able to easily compare one region with another to understand similarities and differences.

NEW TO THIS EDITION

- Previous edition’s Chapter 6 on Southeast Asia and South Pacific has been split into 2 separate chapters. The new Chapter 6 retains coverage on Southeast Asia. Information on the South Pacific is now covered in a new Chapter 10 called Australia, Oceania, and Antarctica.
- Improved internal chapter organization.
- Many NEW photos have been added to the text to give students an even more complete visual presentation of each region.
- All climate and population distribution maps have been redrawn. All physical features maps have been enlarged and redrawn showing major physical features, country boundaries, and capital cities. Every map has been evaluated for size, labeling, and color consistency. Foldout map at the back of the book features world climates and urbanization and migration maps.

CONTENTS

1 Globalization and World Regions
2 Concepts in World Regional Geography
3 Europe
4 Russia and Neighboring Countries
5 East Asia
6 Southeast Asia
7 South Asia
8 Northern Africa and Southwestern Asia
9 Africa South of the Sahara
10 Australia, Oceania, and Antarctica
11 Latin America
12 North America
13 A World of Geography
Glossary of Key Terms
Index

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## GEOLOGY

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<td>Zumberge</td>
<td>9780073051499</td>
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The Good Earth (TGE) is the product of collaboration between the content rigor provided by Earth Science specialists (McConnell, Park, Steer) and the results of research on learning as contributed by pedagogical experts (Knight, Owens). TGE has been explicitly designed to be compatible with inquiry-based, active learning in the college classroom. The structural elements of this text will allow the instructor to incorporate these student-centered teaching methods into their Earth Science course. The authors have tested the book’s content and pedagogy in large Earth Science classes for non-majors that are populated with mostly freshmen. Their experiences show that the materials and methods in TGE can improve students’ learning, increase daily attendance, reduce attrition, and increase students’ enthusiasm compared with classes taught following a traditional lecture format. The authors have chosen to emphasize three scientific themes throughout the text: i) scientific literacy; ii) Earth Science and the human experience; and, iii) the science of global change. The discussion of scientific methods is woven into the text throughout. They have included numerous examples of human interaction with the Earth that can serve as entry points for students to appreciate the nature of science. Global change is a theme that is evident in much current Earth Science research, so our authors have used global change as a content theme throughout the book.

CONTENTS
1 Introduction to Earth Science
2 Earth in Space
3 Near-Earth Objects
4 Plate Tectonics
5 Earthquakes
6 Volcanoes and Mountains
7 Rocks and Minerals
8 Geologic Time
9 Weathering and Soils
10 Slope Failure
11 Streams and Floods
12 Groundwater and Wetlands
13 Oceans and Coasts
14 The Atmosphere
15 Weather Systems
16 Earth’s Climate System
17 Global Change
Environmental Geology

International Edition

ENVIRONMENTAL GEOLOGY
8th Edition
By Carla W Montgomery, Northern Illinois University
2008 (October 2007)
ISBN: 978-0-07-721605-4

www.mhhe.com/montgomery8

Environmental Geology, 8e presents the student with a broad overview of environmental geology. The text looks both at how the earth developed into its present condition and where matters seem to be moving for the future. It is hoped that this knowledge will provide the student with a useful foundation for discussing and evaluating specific environmental issues, as well as for developing ideas about how the problems should be solved.

CONTENTS
Section One Foundations
1 An Overview of Our Planetary Environment
2 Rocks and Minerals—A First Look

Section Two Internal Processes
3 Plate Tectonics
4 Earthquakes
5 Volcanoes

Section Three Surface Processes
6 Streams and Flooding
7 Coastal Zones and Processes
8 Mass Movements
9 Ice and Glaciers, Wind and Deserts
10 Climate—Past, Present, and Future

Section Four Resources
11 Water as a Resource
12 Soil as a Resource
13 Mineral and Rock Resources
14 Energy Resources—Fossil Fuels
15 Energy Resources—Alternative Sources

Section Five Waste Disposal, Pollution, and Health
16 Waste Disposal
17 Water Pollution
18 Air Pollution

Section Six Other Related Topics
19 Environmental Law
20 Land-Use Planning and Engineering Geology

Appendix A Geologic Time, Geologic Process Rates
Appendix B Introduction to Topographic and Geologic Maps and Remotely Sensed Imagery
Appendix C Mineral and Rock Identification

Hazards / Natural Disasters

NATURAL DISASTERS
7th Edition
By Patrick Leon Abbott, San Diego State University
2009 (December 2008) / 512 pages
ISBN: 978-0-07-337669-1

http://www.mhhe.com/abbott7e

Natural Disasters, 7th edition, focuses on how the normal processes of the Earth concentrate their energies and deal heavy blows to humans and their structures. It is concerned with how the natural world operates and, in so doing, kills and maims humans and destroys their works. Throughout the book, certain themes are maintained:

- energy sources underlying disasters
- plate tectonics and climate change;
- earth processes operating in rock, water, and atmosphere;
- significance of geologic time;
- complexities of multiple variables operating simultaneously;
- detailed and readable case studies.

NEW TO THIS EDITION

- New and Expanded Content:
  - Weather principles are expanded and integrated into one chapter with severe weather.
  - Climate is integrated into one chapter with expanded coverage of the 20th & 21st centuries including the IPCC (Intergovernmental Panel on Climate Change) reports.
  - Statistics and Tables are updated.
  - Many changes in chapter on continental earthquakes: A) new section on Pacific Northwest U.S.; B) new section on 2006 Hawaii EQs; C) rewritten section on intraplate EQs; D) deletion of fracture-zone hypothesis.
  - On volcanoes there is more emphasis on magmas, and less on rocks. New material on St. Helens, Toba, and lahars monitoring at Rainier.
  - Numerous new photos and line drawings.

CONTENTS
1 Natural Disasters and the Human Population
2 Energy Flows in Earth History and Natural Disasters
3 Plate Tectonics and Earthquakes
4 Earthquake Geology and Seismology
5 Tsunami
6 Some Earthquakes in Western North America
7 Earthquakes in Continental US and Canada plus Hawaii
8 Volcanic Eruptions: Plate Tectonics and Magmas
9 Volcano Case Histories: Killer Events
10 Mass Movements
11 Weather and Tornadoes
Historical Geology

LABORATORY STUDIES IN EARTH HISTORY
9th Edition
By Harold L. Levin, Washington University—St Louis and Michael S. Smith
2008 (September 2007) / 320 pages
ISBN: 978-0-07-305072-0

www.mhhe.com/levin9e

Utilizing actual case studies and field photographs, this successful lab manual covers the full spectrum of historical geology sediments, plate tectonics, paleontology, and petrology in flexible, self-contained units. This manual has been developed for use in both non-majors and combined courses in historical geology. The exercises emphasize the principles and methods by which geologists discover the origins and changing nature of our planet. These exercises or “studies” will help students understand how ancient conditions can be read from rocks and fossils, how geologic forces at the surface and within the planet can alter the environment, and how events of the past can be placed within an integrated chronological sequence. The exercises are designed for students who may not intend to specialize in geology. This does not mean, however, that the treatment is superficial, nor that it cannot give adequate preparation for students pursuing an academic major in the earth sciences.

CONTENTS

1. Introduction to Sedimentary Rocks
2. Textural Clues to the History of Sediment
3. Sedimentary Rocks under the Microscope
4. Ancient Sedimentary Environments
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7. Age Relations and Unconformity
8. Rock Units and Time-Rock Units
9. The Advance and Retreat of Ancient Shorelines
10. Fossils and Their Living Relatives: Protists, Sponges, Corals, Bryozoa, and Brachiopods
11. Fossils and Their Living Relatives: Mollusks, Arthropods, Echinoderms, Graptolites, and Plants
12. Fossil Indicators of Age, Environment, and Correlation
13. A Brief Survey of the Vertebrates
14. Geologic Maps and Geologic Structures
15. Canadian Shield and Basement Rocks of North America
16. Mountain Belts of North America
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18. Identification of Minerals
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20. Metamorphic Rocks
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Preface

International Edition

EVOLUTION OF THE EARTH
7th Edition
By Donald A. Prothero, Occidental College and Robert Dott, University of Wisconsin—Madison
2004 (July 2003) / 608 pages
ISBN: 978-0-07-252808-4
http://www.mhhe.com/prothero7

CONTENTS

1. Time and Terrestrial Change
2. Floods, Fossils, and Heresies: “No vestige of a beginning, no prospect of an end?”
3. Evolution
4. The Relative Geologic Time Scale and Modern Concepts of Stratigraphy
5. The Numerical Dating of the Earth
6. Origin and Early Evolution of the Earth
7. Mountain Building and Drifting Continents
8. Cryptozoic History: An Introduction to the Origin of Continental Crust
9. Early Life and its Patterns
10. Earliest Paleozoic History: The Sauk Sequence—An Introduction to Cratons and Epeiric Seas
11. The Later Ordovician: Further Studies of Plate Tectonics and the Paleogeography of Orogenic Belts
12. The Middle Paleozoic: Time of Reefs, Salt, and Forests
13. Late Paleozoic History: A Tectonic Climax and Retreat of the Sea
14. The Mesozoic Era: Age of Reptiles and Continental Breakup
15. Cenozoic History: Threshold of the Present
16. Pleistocene Glaciation and the Advent of Humans
17. The Best of all Possible Worlds?
Appendix I The Classification and Relationships of Life
Appendix II English Equivalents of Metric Measures

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Website: www.mheducation.asia
New to this edition:
- Each chapter in the new edition contains learning outcomes at the onset of the chapter.
- Dr. John Delaney, a professor of Oceanography at the University of Washington, has rewritten his Field Notes essay for the new edition discussing new approaches to exploring the ocean to include the five-year Keck study that developed 40 new instruments.
- LuAnne Thompson, professor of Atmospheric Sciences and Interim Director of the Program on Climate Change at the University of Washington, has contributed a Field Notes essay on The Oceans and Climate Change.
- New illustrations have been added including images and drawings of internal wave propagation, NOAA's Project DART, Great Lakes shoreline erosion, temperature variations in global mean sea level, and depth penetration of different wavelengths of light.

Contents:
1 The History of Oceanography
2 The Water Planet
3 Plate Tectonics
4 The Sea Floor and Its Sediments
5 The Physical Properties of Water
6 The Chemistry of Seawater
Physical Geology, 12e, is the latest refinement of a classic introductory text that has helped countless students learn basic physical geology concepts for over 25 years. Students taking introductory physical geology to fulfill a science elective, as well as those contemplating a career in geology, will appreciate the accessible writing style and deep of coverage in Physical Geology. Hundreds of carefully rendered illustrations, rather than being in long blocks of text that are not articulated with figures. These annotated illustrations help students visualize geologic processes and concepts, and are suited to the way most instructors already teach. To alleviate cognitive load and help students focus on one important geologic process or concept at a time, the book consists entirely of two-page spreads organized into 19 chapters. Each two-page spread is a self-contained block of information about a specific topic, emphasizing geologic concepts, processes, features, and approaches. These spreads help students learn and organize geologic knowledge in a new and exciting way. Inquiry is embedded throughout the book, as is the way geologists investigate problems. The title of each two-page spread and topic heading is a question intended to get readers to think about the topic and become interested and motivated to explore the two-page spread for answers. Each chapter is a learning cycle, which begins with a visually engaging two-page spread about a compelling geologic issue. Each chapter ends with an Investigation that challenges students with a problem associated with a virtual place. The world-class media, spectacular presentations, and assessments are all tightly articulated with the textbook. This book is designed to encourage students to observe, interpret, think critically, and engage in authentic inquiry, and is highly acclaimed by reviewers, instructors, and students.

CONTENTS
1 Introducing Geology, the Essentials of Plate Tectonics, and other Important Concepts
2 Atoms, Elements, and Minerals
3 Igneous Rocks, Intrusive Activity, and the Origin of Igneous Rocks
4 Volcanism and Extrusive Rocks
5 Weathering and Soil
6 Sediment and Sedimentary Rocks
7 Metamorphism, Metamorphic Rocks, and Hydrothermal Rocks
8 Time and Geology
9 Mass Wasting
10 Streams and Floods
11 Ground Water
12 Glaciers and Glaciation
13 Deserts and Wind Action
14 Waves, Beaches, and Coasts
15 Geologic Structures
16 Earthquakes
17 Earth’s Interior and Geophysical Properties
18 The Sea Floor
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20 Mountain Belts and the Continental Crust
21 Geologic Resources
22 The Earth’s Companions
Appendix A Identification of Minerals
Appendix B Identification of Rocks
Appendix C The Elements Most Significant to Geology
Appendix D Periodic Table of Elements
Appendix E Selected Conversion Factors
Appendix F Rock Symbols
Appendix G Commonly Used Prefixes, Suffixes, and Roots

EXPLORING GEOLOGY
By Stephen Reynolds and Julia Johnson of Arizona State University-Tempe, Michael Kelly, Paul, University of Minnesota-Minneapolis and Chuck Carter
2008 (June 2007)
ISBN: 978-0-07-325651-1
http://www.mhhe.com/reynolds

Exploring Geology by Reynolds/Johnson/Kelly/Morin/Carter is a new, innovative textbook intended for an introductory college geology course, such as Physical Geology. This ground-breaking, visually spectacular book was designed from cognitive and educational research on how students think, learn, and study. Nearly all information in the book is built around nearly 2,700 photographs and stunning illustrations, rather than being in long blocks of text that are not articulated with figures. These annotated illustrations help students visualize geologic processes and concepts, and are suited to the way most instructors already teach. To alleviate cognitive load and help students focus on one important geologic process or concept at a time, the book consists entirely of two-page spreads organized into 19 chapters. Each two-page spread is a self-contained block of information about a specific topic, emphasizing geologic concepts, processes, features, and approaches. These spreads help students learn and organize geologic knowledge in a new and exciting way. Inquiry is embedded throughout the book, as is the way geologists investigate problems. The title of each two-page spread and topic heading is a question intended to get readers to think about the topic and become interested and motivated to explore the two-page spread for answers. Each chapter is a learning cycle, which begins with a visually engaging two-page spread about a compelling geologic issue. Each chapter ends with an Investigation that challenges students with a problem associated with a virtual place. The world-class media, spectacular presentations, and assessments are all tightly articulated with the textbook. This book is designed to encourage students to observe, interpret, think critically, and engage in authentic inquiry, and is highly acclaimed by reviewers, instructors, and students.

CONTENTS
Preface
1 The Nature of Geology
2 Investigating Geologic Questions
3 Plate Tectonics
4 Earth Materials
5 Igneous Environments
6 Volcanoes and Volcanic Hazards
7 Sedimentary Environments
8 Deformation and Metamorphism
9 Geologic Time
10 The Seafloor and Continental Margins
11 Mountains, Basins, and Continents
12 Earthquakes and the Earth’s Interior
13 Climate, Weather, and Their Influences on Geology
14 Shorelines, Glaciers, and Changing Sea Levels
15 Weathering, Soils, and Unstable Slopes
16 Rivers and Streams
17 Water Resources
18 Energy and Mineral Resources
19 Geology of the Solar System
Appendices
LAB MANUAL TO ACCOMPANY PHYSICAL GEOLOGY
7th Edition
By Norris Jones, University of Wisconsin-Oshkosh and Charles Jones, University of Pittsburgh
2010 (March 2009) / 384 pages
ISBN: 978-0-07-336939-6

If it’s important for you to incorporate the scientific method into your teaching, this lab manual is the perfect fit. In every exercise there are scientific method boxes that provide students with insight into the relevance of the scientific method to the topic at hand. The manual also includes “In Greater Depth” problems, a more challenging probe into certain issues. They are more quantitative in nature and require more in-depth, critical thinking, which is unique to this type of manual.

FEATURES
- The Jones manual contains a chapter dedicated to volcanoes, something seldom seen in lab manuals. This chapter has been revised and refined in this edition.
- Chapters in this lab manual are self-contained, which allows instructors considerable flexibility in the order in which the chapters are taught.
- In Greater Depth problems are a more challenging probe into certain issues. They are more quantitative in nature and require more in-depth critical thinking, which is unique to this type of manual.
- Geologic maps from around the country introduce students to basic regional geography.
- Each lab features questions that require numerical calculations that help improve students’ quantitative reasoning skills and introduce the concept that numbers are essential to the earth sciences.
- The exercises are designed to make students approach and solve problems using scientific methodology as much as possible, rather than following a cookbook method.
- Found at the end of each chapter, the “Applications” section includes the following:
  - An introductory paragraph relates the chapter material to the real world and to the scientific method as illustrated by the problems that follow.
  - A list of “Objectives” precedes a number of problems and indicates what the student should know after completing the problems.
  - A list of “Problems” allows students to answer questions related to the lab experiment they are performing.

CONTENTS
1 Properties of Minerals
2 Mineral Identification
3 Igneous Rocks
4 Sedimentary Rocks
5 Metamorphic Rocks
6 Topographic Maps and Digital Elevation Models
7 Remote Sensing of Volcanoes and Volcanic Hazards
8 Streams and Humid-Climate Landscapes
9 Groundwater and Groundwater-Influenced Landscapes
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12 Arid-Climate Landscapes
13 Geologic Age
14 Structural Geology
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Index
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CONTENTS
Part I: Earth Materials
Part II: The Geologic Column and Geologic Time
Part III: Topographic Maps, Aerial Photographs, and Other Imagery from Remote Sensing
Part IV: Geologic Interpretation of Topographic Maps, Aerial Photographs, and Earth Satellite Images
Part V: Structural Geology
Part VI: Plate Tectonics and Related Geologic Phenomena

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Blood and Airborne Pathogens

NEW

BLOODBORNE AND AIRBORNE PATHOGENS
2nd Edition

By National Safety Council NSC

2009 (April 2008) / 64 pages

The National Safety Council has been the leader in protecting life and promoting health in the workplace for nearly 100 years. Its mission is to educate and influence people to prevent accidental injury and death. The National Safety Council’s courses have grown to meet the changing needs of emergency responders at all levels of expertise. More than 8 million first aid/CPR/AED responders have trained by over 10,000 instructors through a network of approximately 2,500 training centers nationwide. Fulfill OSHA training requirements and reduce employees’ risk of injury and illness with the National Safety Council’s Bloodborne and Airborne Pathogens course—the choice for infection control compliance information.

NEW TO THIS EDITION

✓ Includes reproducible forms on CD-ROM to help employers comply with the OSHA Standard.
✓ Is the only Airborne Pathogens program that includes content based on OSHA’s Guidance on Preparing Workplaces for an Influenza Pandemic.

CONTENTS

Chapter 1--Introduction to the Bloodborne Pathogens
Chapter 2--Bloodborne Pathogens
Chapter 3--Preventing Infection from Bloodborne Pathogens
Chapter 4--Airborne Pathogens
Appendix A--The OSHA Bloodborne Pathogens
Appendix B--Select Other Diseases Caused by Bloodborne Pathogens
Appendix C--Sample Hepatitis B Vaccine Declination Form
Appendix D--Sample Exposure Incident Report Form
Appendix E--Sample Sharps Injury Logs
Appendix F--Sample Exposure Control Plan
Appendix G--Sample Bloodborne Pathogens Training Log

BLS/CPR for the Professional Rescuer

NEW

BLS REVIEW+ DVD

By Delve Productions Inc

2009 (May 2008)

An EMT student needs a review product that contains both testable certification skills and the ability to test and assess the didactic course material. BLS Review combines both skills and a didactic review of essential EMT material in a DVD and CD-ROM format. It can be used by a student studying for their written and practical exam or by an instructor for classroom teaching of the skills.

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✓ Passing the EMT course and National Registry written and practical skills examinations will be stressed.
✓ DVD skills performed according to national standards.
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6. Lifting and Moving Patients
7. Airway and Breathing
8. Scene Size-Up
9. Patient Assessment
10. Communications
11. Documentation
12. Pharmacology
13. Respiratory Emergencies
14. Cardiovascular Emergencies
15. Diabetes and Altered Mental Status
16. Allergic Reactions
17. Poisoning and Overdose
18. Environmental Emergencies
20. Obstetrics
21. Bleeding and Shock
22. Soft-Tissue Injuries
23. Musculoskeletal Care
24. Injuries to the Head and Spine
25. Injuries to the Chest and Abdomen
26. Infant and Child Emergency Care
27. Emergency Vehicle Operations
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Certification Exam Review for Medical Assisting

MEDICAL ASSISTING REVIEW: Passing the CMA, RMA, & CCMA Exams with Student CD, 3rd Edition
By Jahangir Moini, Florida Metro University-Melbourne

2009 (January 2008)
ISBN: 978-0-07-330979-8
www.mhhe.com/moini3

Medical Assisting Review: Passing the CMA, RMA, and CCMA Exams, Third Edition provides example questions for students to prepare for certification exams. This reference prepares students to take the exam with easy-to-read essential material summaries that highlight key areas of the major clinical and administrative parts of a Medical Assistant’s program. Each of the chapters includes a series of 20 to 30 multiple choice quiz questions and a concise outline of key information. The CD-ROM included free in each book provides more than 1500 sample review questions as well as a PowerPoint presentation for additional student review. The review questions include rationales for answers and correlations to certification competencies. There is also a correlation to the textbook location where the information is covered.

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- Improved Student CD-ROM is easier to use.

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Section 2 Administrative Medical Assisting Knowledge
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Chapter 24 Laboratory Procedures

PART II SELF-EVALUATION
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Section 2 Test for Administrative Medical Assisting Knowledge
Section 3 Test for Clinical Medical Assisting Knowledge

Part III SELF-EVALUATION ANSWERS AND RATIONALES
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Answers and Rationales
Section 2 Administrative Medical Assisting Knowledge
Answers and Rationales
Section 3 Clinical Medical Assisting Knowledge
Answers and Rationales

Computers in the Medical Office

CASE STUDIES FOR THE MEDICAL OFFICE
Capstone Billing Simulation, 5th Edition
By Susan Sanderson

2010 (January 2009) / 224 pages
ISBN: 978-0-07-340200-0
http://www.mhhe.com/capstone5e

This capstone simulation using Medisoft Patient Billing Software, Version 14, gives students enhanced training that fosters superior qualifications for a variety of medical office jobs. Extensive hands-on practice with realistic source documents teaches students to input information, schedule appointments, and handle billing, reports, and other essential tasks. The simulation is recommended for students who have completed the study of Medisoft Advanced Version 14 using Computers in the Medical Office or Patient Billing.

NEW TO THIS EDITION

- Medisoft Advanced Student-at-home software (Optional Package Item), a full-featured software option for distance education or students who want to practice with the software at home. The only limitation is the number of patients a student can enter into the software. Otherwise, this is a full working version.
- The Instructor’s Manual (available on the OLC) provides all of the resources necessary to successfully use Case Studies for the Medical Office in your classroom. It includes instructions for installation and troubleshooting the software, teaching suggestions, and answers to the quizzes, daily worksheets, and jobs, including hundreds of Medisoft V14 screenshots for solutions.

CONTENTS

Part 1 Introduction to Polaris Medical Group
Part 2 Polaris Medical Group Policy and Procedure Manual
Part 3 On the Job
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NEW TO THIS EDITION
- Coverage of processing refunds for patients provides information for creating an adjustment that refunds money to a patient.
- Electronic Health Records Exchange feature explores how billing programs and electronic health records share data and improve productivity.
- Worksheets feature was created in response to instructors’ requests for an easier way to measure students’ performance on Medisoft exercises. The Worksheets contain objective questions that require students to accurately complete the computer exercises in each chapter.
- CIMO 6e is written for Medisoft V14 which includes the updated version of CMS 1500 that prints NPI information in fields 17B and 24J. In addition, Medisoft V14 provides an option to export reports to a PDF file that students can e-mail to their instructors.

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PART 1 INTRODUCTION TO COMPUTERS IN THE MEDICAL OFFICE
Chapter 1 The Medical Office Billing Process
Chapter 2 Information Technology and HIPAA
PART 2 MEDISOFT ADVANCED PATIENT ACCOUNTING TRAINING
Chapter 3 Introduction to Medisoft
CHAPTER 4 Entering Patient Information
Chapter 5 Entering Insurance, Account, and Condition Information
Chapter 6 Entering Charge Transactions and Patient Payments
Chapter 7 Creating Claims
Chapter 8 Posting Insurance Payments and Creating Patient Statements
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Acting in an Emergency
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Recovery Position
Choking (Responsive Victim)
Heart Attack and Chest Pain
Preventing Disease Transmission
Quick Guide
CPR
Using an AED
Choking-Responsive Adult or Child
Choking-Responsive Infant
Recovery Position-Adult or Child
Recovery Position-Infant
ALLIED HEALTH

CPR & AED SKILLS CARD NSC CERTIFICATION EDITION
2nd Edition
By National Safety Council NSC
2009 (July 2008)
ISBN: 978-0-07-351987-6

This handy card will help you refresh your CPR & AED skills before you recertify. Remember--your CPR and AED completion cards are good up to 2 years.

CONTENTS
CPR--Adult & Infant
Preventing Disease Transmission
Using an AED
Choking
Acting in Emergency Situations
Check the Victim
Recovery Position

CPR & AED SKILLS REFRESHER CARD
By National Safety Council NSC
2008 (June 2007) / 8 pages

Need to refresh your CPR & AED skills? This handy card will help you refresh your CPR & AED skills before you recertify. Remember--your CPR and AED completion cards are good up to 2 years.

CONTENTS
CPR--Adult & Infant
Preventing Disease Transmission
Using an AED
Choking
Acting in Emergency Situations
Check the Victim
Recovery Position

STANDARD FIRST AID, CPR, & AED
with Quick Guide
Updated 2nd Edition
By National Safety Council NSC
2009 (August 2008)
ISBN: 978-0-07-729274-4

Updated to include “Hands-only CPR”. The National Safety Council has long been recognized as a leader in emergency care training. The program offers the very latest techniques ad follow the latest guidelines for CPR and meet OSHA's standards for emergency care training. The National Safety Council makes it easy for anyone to learn or teach Standard First Aid, CPR & AED. You will be given all the background information and skill testing you need to fell confident in the event of an emergency—and help save a life.

NEW TO THIS EDITION
- Now includes “Hands-only CPR”
- Standard First Aid, CPR, and AED has updated the training to incorporate Video Self Instruction (VSI) for CPR skills. With VSI, students practice CPR along with the video, taking their cues from the rescuer on the screen.
- As an added bonus, all NSC instructors get exclusive access to our web-based Emergency Care Instructor Portal, which contains downloadable promotions, administrative documents, course outlines, state-by-state approvals, product previews, trade show listings, and more. Plus, you get free student recordkeeping! Visit www.emergencycare.nsc.org.

CONTENTS
Lesson 1-basic Life Support
Lesson 2-acting In An Emergency

Critical Care Nursing

IV THERAPY DEMYSTIFIED
By Kerry Cheever, Moravian College
2008 / 304 pages
ISBN: 978-0-07-149678-0
A Professional Reference Title

Looking for a quick way to learn the ins-and-outs of I.V. therapy but find other books dripping with complexity? Here’s your lifeline! I.V. Therapy Demystified infuses essential information with clear explanations to make learning easy. Written by a nursing professor, this detailed guide covers fluids and electrolytes, I.V. therapy delivery systems, and peripheral and central I.V. therapy. You will learn about crystalloid and colloid solutions and blood component, parenteral nutrition, and pharmacological therapies. I.V. therapy in infants, children, and older adults is also covered. Filled with key terms to help you to remember important concepts, and complete with end-of-chapter quizzes to test your knowledge, this book will teach you the fundamentals of I.V. therapy in no time at all. I.V. Therapy Demystified is your shortcut to mastering this essential nursing topic.

This fast and easy guide offers:
- Learning objectives at the beginning of each chapter
- An NCLEX-style quiz at the end of each chapter to reinforce learning and pinpoint weaknesses
- Measurements labeled in SI units
- Indications for I.V. therapy and options for delivery
• A time-saving approach to performing better on an exam or at work

CONTENTS
1. Basic Principles of IV Therapy
2. Fluids and Electrolytes
3. IV Delivery Systems
4. Peripheral IV Therapy
5. Central IV Therapy
6. IV Therapy and the Nursing Process
7. Crystalloid Solutions
8. Colloid Solutions
9. Blood Component Therapy
10. Parenteral Therapy
11. IV Pharmacological Therapy
12. IV Therapy and Infants and Children
13. IV Therapy and the Elderly
14. IV Therapy within Community-Based Settings

AACN ESSENTIALS OF PROGRESSIVE CARE NURSING
By Marianne Chulay, Clinical Research and Critical Care Nursing and Suzanne M. Burns, University of Virginia-Charlottesville
2007 / 608 pages
A Professional Reference Title
Written by nationally known clinical experts in acute care nursing, this textbook provides foundational information, whether you’re a nurse who is to progressive care, or are a student preparing for the certification exam in progressive care nursing. You’ll find a concise presentation of essential information for the safe and competent care of adult progressive care patients and their families.

CONTENTS
Chapter 1. Assessment Of Critically Ill Patients And Families by Mary Fran Tracy
Chapter 2. Planning Care For Critically Ill Patients And Families
Chapter 3. Interpretation And Management Of Basic Cardiac Rhythms
Chapter 4. Hemodynamic Monitoring by
Chapter 5. Airway And Ventilatory
Chapter 6. Pain, Sedation, And Neuromuscular Blockade Management
Chapter 7. Pharmacology
Chapter 8. Ethical And Legal Considerations
Chapter 9. Cardiovascular System
Chapter 10. Respiratory System by
Chapter 11. Multisystem Problems
Chapter 12. Neurologic System
Chapter 13. Hematology And Immunology Systems
Chapter 14. Gastrointestinal System
Chapter 15. Renal System by Carol Hinkle
Chapter 16. Endocrine System
Chapter 17. Trauma by Carol A. Rauen and Jamie B. Sinks
Chapter 18. Advanced ECG
Chapter 19. Advanced Cardiovascular Concepts
Chapter 20. Advanced Neurologic Concepts
Chapter 21. Normal Value Tables
Chapter 22. Pharmacology Tables by Ernest Alexander
Chapter 23. Advanced Cardiac Life Support Algorithms
Chapter 24. Guidelines for the Transfer of Critically Ill Patients
Chapter 25. Hemodynamic Monitoring Troubleshooting Guide
Chapter 26. Ventilatory Troubleshooting Guide
Note: This chapter was authored by Irene Grossbach
Chapter 27. Cardiac Rhythms, ECG Characteristics and Treatment Guide

ELECTROCARDIOGRAPHY FOR HEALTH CARE PERSONNEL WITH STUDENT CD-ROM
2nd Edition
By Kathryn Booth, Total Care Programming, Patricia DeTos, N. Virginia CC-Springfield and Thomas Edward O’Brien, Central Florida Institute
2008 (June 2007)
ISBN: 978-0-07-330209-6
http://www.mhhe.com/healthcareskills

Electrocardiography for Health Care Personnel provides ECG skills training for health care students as well as health care personnel who are interested in mastering additional skills. The text includes the essential skills needed to perform an ECG, including anatomy of the heart, basic characteristics, equipment, appropriate intervention, and other technical applications, such as Holter monitoring and stress testing. Emphasis throughout the text is placed on troubleshooting.

CONTENTS
Chapter 1-Role of the Electrocardiographer
Chapter 2-The Cardiovascular System
Chapter 3-The Electrocardiograph
Chapter 4-Performing a 12-Lead ECG
Chapter 5-ECG Interpretation and Clinical Significance
Chapter 6-Exercise Electrocardiography
Chapter 7-Ambulatory Monitoring
Appendix A-Competency Checklist
Appendix B-Common Cardiac Medications
Appendix C-Abbreviations/Symbols
Glossary

POCKET ECGS
A Quick Information Guide
By Bruce Shade, Cuyahoga CC-Metro Campus
2008 (September 2006) / 160 pages
ISBN: 978-0-07-351976-0

This book is a portable, easy to view, quick reference pocket guide. It puts the key points about how to recognize the various dysrhythmias and cardiac conditions at the fingertips of the practitioner allowing them to quickly identify what they see in the field and/or clinical setting. It is also a useful tool in the classroom for the student to quickly look up key information. There is a short introduction that talks about the location of the heart, lead placement and the nine step process for interpreting the various wave forms and characteristics. It briefly describes the normal and abnormal features found on ECG tracings. It visually demonstrates how to calculate the heart rate, identify irregularities and identify and measure the various waveforms, intervals and segments. The introductory information is followed by Chapters, broken out by where the dysrhythmias originate (i.e., sinus, atrial, junctional, ventricular, AV heart block), on the key characteristics of various dysrhythmias and conditions that can be detected through the use of the electrocardiogram.

CONTENTS
Ch 1. The Electrocardiogram
Ch 2. Analyzing the ECG
Ch 3. Sinus Dysrhythmias
Ch 4. Atrial Dysrhythmias
Ch 5. Junctional Dysrhythmias
Ch 6. Ventricular Dysrhythmias
Ch 7. AV Heart Blocks

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PRACTICING ECGS WITH CD
By Bruce Shade, Cuyahoga CC-Metro Campus
2008 (July 2007)
ISBN: 978-0-07-331418-1

Practicing ECG’s, by Bruce Shade, is a practice workbook to help refine a student’s skill in reading ECG tracings. There will be approximately 500 rhythm strips which will include both 3 and 12 lead. The strips will be a compilation of both simple and complex in order to test the student’s knowledge and to give them a variety of different scenarios.

CONTENTS
Chapter 1: Ecg Assessment And Interpretation Review
Chapter 2: Sinus Node Dysrhythmias
Chapter 3: Atrial Dysrhythmias
Chapter 4: Junctional Dysrhythmias
Chapter 5: Ventricular Dysrhythmias
Chapter 6: Av Heart Blocks
Chapter 7: Other Conditions
Chapter 8: Assess Your Knowledge-pretest
Chapter 9: 12 Lead Egs
Chapter 10: Assess Your Knowledge-final Exam

ELECTROCARDIOGRAPHY IN TEN DAYS
2nd Edition
By David R Ferry, Loma Linda University
2007 / 320 pages
ISBN: 978-0-07-126094-7 [IE]

Learn to effectively interpret virtually every ECG you’re likely to encounter in clinical practice - in ten brief lessons. The only review book to offer full-sized ECGs throughout (simulating how they appear on tests and in actual practice), this sourcebook is the most sought-after ECG review anywhere, trusted by cardiology fellows, internal medicine residents, and medical students alike. ECG in Ten Days is based on the author’s popular ten-day review course, and features a unique step-by-step approach, crystal-clear vector images, plus practice EDB strips to build confidence and fine-tune clinical skills. In these pages, you’ll find essential information on everything from SA & AV nodal conduction abnormalities, to mechanisms of arrhythmias and electronic pacemakers. Also included is an answer sheet similar to the one encountered on board exams.

CONTENTS
1. The Basics
2. Chamber Abnormalities and Intraventricular Conduction Defects
3. SA and AV Nodal Block
4. Ischemia and Infarction
5. Reentrant Supraventricular Tachycardias
6. Ectopic Supraventricular Tachycardias
7. Extrasystoles and Pre-excitation Syndromes
8. Differential Diagnosis of Wide QRS Tachycardias
9. Medication and Electrolyte Effects; Miscellaneous Conditions
10. Electronic Pacemakers
ALLIED HEALTH

First Aid

NEW

FIRST AID SKILLS CARD

By National Safety Council NSC

2009 (January 2008) / 8 pages
ISBN: 978-0-07-338292-0

Need to refresh your First Aid skills? This handy card will help you refresh your First Aid skills before you recertify. Remember--your First Aid completion cards are good up to 3 years.

CONTENTS
Check the Victim
Initial Assessment
SAMPLE History Format
Physical Exam
Controlling External Bleeding
Shock
Severe Allergic Reaction (Anaphylactic Shock)
Burn Care
Asthma Attack
Seizure
Swallowed Poisons
Cold Related Illness
Frostbite
Hypothermia
Heat Related Illness
Heat Exhaustion
Heatstroke
Head and Spinal Injuries
Splinting
General Care for Bone, Joint, and Muscle Injuries

NEW

FIRST AID WITH POCKET GUIDE

By National Safety Council NSC

2009 (September 2008)
ISBN: 978-0-07-729441-0

First Aid is a 64-page full-color manual that covers the material necessary for a 3.5 to 4 hour Basic First Aid course. The layperson (not a health care provider) is the audience for the manual and course. The focus is teaching a layperson to recognize an emergency and take action in an emergency until professional help arrives. Guidelines of care are derived from the national guidelines such as Emergency Cardiovascular Care and the American Burn Association. The manual focuses on need-to-know information and has a clear and easy to understand presentation.

CONTENTS
Acting in an Emergency
Check the Victim
Recovery Position
Choking (Responsive Victim)
Heart Attack and Chest Pain
Preventing Disease Transmission
Bleeding and Wound Care
Shock
Burns
Serious Injuries
Bone, Joint, and Muscle Injuries
Sudden Illness
Poisoning
Cold and Heat Emergencies
Rescuing and Moving Victims

International Edition

POISONING & DRUG OVERDOSE
5th Edition

By Kent R Olson, University of California--San Francisco

2007 / 736 pages

The manual on the diagnosis and treatment of poisoning and drug overdose, written by the staff and faculty of the California Poison Control System, one of the country’s most respected poison control systems.

CONTENTS
I. Emergency Treatment
II. Common Poisons & Drugs
III. Antidotes & Drug Therapy
IV. Industrial Chemicals
Anatomy, Physiology, and Pathophysiology for Allied Health, Second Edition, is an introductory book to the body systems for allied health students. It acquaints students with basic information of all the body systems. The book speaks directly to the student, with chapter introductions, case studies, and chapter summaries written to engage the student's attention.

CONTENTS

Chapter 1 Organization of the Body
Chapter 2 The Integumentary System
Chapter 3 The Skeletal System
Chapter 4 The Muscular System
Chapter 5 The Cardiovascular System
Chapter 6 The Respiratory System
Chapter 7 The Nervous System
Chapter 8 The Urinary System
Chapter 9 The Reproductive Systems
Chapter 10 The Lymphatic and Immune Systems
Chapter 11 The Digestive System
Chapter 12 The Endocrine System
Chapter 13 Special Senses
Appendix I Medical Assistant Role Delineation Chart (AAMA)
Appendix II RMA Certification Chart
Appendix III NHA Certification Chart
Appendix IV Prefixes and Suffixes Commonly Used in Medical Terms
Appendix V Latin and Greek Equivalents Commonly Used in Medical Terms
Appendix VI Abbreviations Commonly Used in Medical Notations
Appendix VII Symbols Commonly Used in Medical Notations
Appendix VIII Professional Organizations and Agencies

Jurch’s Clinical Massage is designed to outline the principles and foundational understanding of assessing and treating orthopedic injury or dysfunction through massage therapy. The text follows an anatomic region approach, covering surface anatomy and muscle groups before presenting a comprehensive review of the most often presenting orthopedic dysfunctions or conditions. Each dysfunction or condition is reviewed with a consistent diagnostic checklist, a stepped treatment program, and relevant “clinical pearls”. The learning aids throughout the text, along with the reader-friendly writing style, create a highly-effective learning system for understanding the concepts of clinical massage.

FEATURES

❖ Jurch provides a consistent format for each anatomic area presented
❖ Jurch provides a consistent, systematic, “stepped program” for each condition discussed: Students will learn the condition name, how to assess, Anatomy & Physiology review, how to find the structures and most importantly how to treat the condition. For example, the students will learn about treating the condition: Myofascia, Soft tissue restoration of function, Range of Motion and Strength.
❖ Photos correspond to anatomical art: Visual learners will appreciate the photographs and illustrations in the Jurch text. Jurch's art is focused on the main concepts by using concise labeling methodology that keeps students from getting bogged down with excessive detail. Difficult concepts are broken down into easy-to-understand illustrations.
❖ Clinical Pearls: This feature will draw students into the materials and help them learn the value of clinical massage and the effective treatment of orthopedic conditions that students will face in their future careers.
❖ Reference to clinical applications will be highlighted: Students will understand the clinical relevance and important application of massage therapy.
❖ Jurch: Clinical Massage Student Resources Jurch Online Learning Center
❖ Chapter Quizzes
❖ Glossary
❖ Games
❖ Jurch: Clinical Massage Instructor Resources
❖ Instructor Manual Jurch Online Learning Center
❖ Overview
❖ Introduction to the material
❖ Extended chapter outlines
ANATOMY & PHYSIOLOGY REVEALED (ALLIED HEALTH VERSION)

By Medical College Ohio

2009 (September 2008)

Anatomy & Physiology Revealed is the ultimate interactive cadaver dissection experience. This state-of-the-art program uses cadaver photos combined with a layering technique that allows the student to peel away layers of the human body to reveal structures beneath the surface. Anatomy & Physiology Revealed also offers animations, histologic and radiologic imaging, audio pronunciations, and a comprehensive quizzing tool. It can be used as part of any one or two semester undergraduate anatomy & physiology or human anatomy course; Anatomy & Physiology Revealed is available stand-alone, or can be combined with any of McGraw-Hill’s anatomy & physiology textbooks.

FEATURES

- New Organ System Added -- The Integumentary System has been added to the list of organ systems included in this program. All layers of the skin will be included and this new section will also feature histology images and full coverage of the dermis, epidermis, hair shaft, specific glands, etc.
- Expanded Skeletal and Joint Coverage -- The Skeletal System and Muscular System have been separated into each their own system allowing for substantially expanded information to be provided in each. The Skeletal System will now include full coverage of joint dissections. 75 NEW photos of disarticulated bones have been added.
- NEW Histology Section! -- Version 2.0 of Anatomy & Physiology Revealed includes a new button for histology views to support every body system. Students can access this information by clicking on the microscope icon located on the navigation bar.
- NEW! Expanded Quizzing Types and Options -- Physiology animation quizzes have been added to Skeletal, Muscular and Nervous Systems. In addition, the user can now select the number of questions he/she wants included in each quiz (10, 25 or ALL).
- NEW! Navigation and Interface changes!

System selection menu makes it easy to hop between systems.

Tags are now color coded. All tags pertaining to the given system are one color and reference structures that are not part of that system are another color.

- A recent research study proved that students using APR in the lab performed nearly 2x better than students using traditional methods (lab manual + animal specimen).
- 63% of students in a recent study stated that APR encouraged an active-learning process compared to 31% who said the same about traditional lab.
- 75% of students in a recent study indicated they routinely used APR to study on their own, vs. 29% who used traditional lab materials to study on their own.
- I can see how you might think you have to use cadavers to use this product. It is a common misconception.
- I can understand your concern. Our research has shown that students do use APR when it is incorporated into the lecture and/or lab.
- I am pretty happy with the textbook and media I am using now. Everything is working fine.

CONTENTS

Integumentary System
Skeletal System
Muscular System
Nervous System
Cardiovascular System

COMPLIMENTARY COPIES

Complimentary desk copies are available for course adoption only. To request for a review copy:
- contact your local McGraw-Hill Representatives
- fax the Examination Copy Request Form
- email to mghasia_sg@mcgraw-hill.com
- submit online at www.mheducation.asia

Visit McGraw-Hill Education
Website: www.mheducation.asia
The study and practice of reflexology today requires a text that provides both training and resource material. This book offers practical application and in-depth knowledge that is germane to acquiring proficiency in reflexology. Illustrations were chosen to support the discussion of technique while providing an overall review of how reflexology affects each system including key pathologies within the body systems. The goal was to provide a vehicle that smoothly transports the reader to fulfillment be it as instructor or student.

FEATURES

- A clinically relevant text covering important modalities used by reflexologists and massage therapists.
- Dynamic illustrations and photographs present a realistic view of reflexology to enhance learning.
- Text is a "bench manual" on how to equate specific manipulations to support healing in specific systems or body regions.
- Every chapter opens with Learning Outcomes and Key terms
- Review and Critical Thinking questions.
- Watson provides clear, concise, compact, and appropriate content for coursework or practice.
- Scientific Support boxes are definitive facts collected from professional reflexology case studies or research reports.

CONTENTS

Introduction

Section 1: Basic Principles of Reflexology
Chapter 1: History and Theory of Reflexology
Chapter 2: Introduction to Basic Anatomy
Chapter 3: Anatomy and Pathologies of the Foot
Chapter 4: Anatomy and Pathologies of the Hand
Chapter 5: Mapping of the Feet and Hands Connecting Reflexes with Anatomy
Chapter 6: Positioning and Thumb-walking Techniques
Chapter 7: Relaxing Techniques

Section 2: Body Systems
Chapter 8: Skeletal and Muscular Systems
Chapter 9: Nervous System
Chapter 10: Sense Organs
Chapter 11: Endocrine System
Chapter 12: Circulatory System
Chapter 13: Lymphatic System
Chapter 14: Respiratory System
Chapter 15: Digestive System
Chapter 16: Urinary System
Chapter 17: Reproductive System
Chapter 18: Integumentary System

Section 3: Applications of Reflexology
Chapter 19: Children and Geriatric
Chapter 20: Women and Men’s Health
Chapter 21: Emotional Health, Substance Abuse, and Weight Management
Chapter 22: Pain Management, Cancer, and Hospice

Section 4: Ethics and Business of Reflexology
Chapter 23: Ethics and Business

Appendices
A: Reflexology Associations, Websites, and Schools
B: Sample Reflexology Session
C: Marketing Reflexology
D: Documenting Charts for the Client
G: Specific Techniques for Pathologies

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1: Resources
2: References
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NEW FOUNDATIONS IN THERAPEUTIC MASSAGE AND BODYWORK WITH STUDENT CD-ROM
By Jan Saeger, Keiser College and Donna Kyle-Brown, Blue Cliff College
2008 (January 2007) / 736 pages
Website: http://www.mhhe.com/saegermassage

New Foundations in Therapeutic Massage and Bodywork offers a core curriculum of fundamental principles and practical applications for beginning students as well as practitioners in the field who seek a desk reference and review for continuing education. This text also goes beyond the core curriculum by addressing such topics as massage for hospice patients and survivors of abuse as well as massage routines for common pathologies (including carpal tunnel syndrome, thoracic outlet syndrome, and fibromyalgia). With Exam Points highlighted throughout the text as well as a student CD offering additional test questions and study materials, New Foundations is designed to help students reach two important goals: to succeed in passing their National Certification Exam and to ultimately succeed in their careers. Practice expectations and realities are emphasized through case studies and author/contributor anecdotes. Full-color photographs and line art give the student a detailed view of the application or points being studied. Workbook pages, titled Applying Your Knowledge, are incorporated within the Chapters for easy access and review.

CONTENTS
PART ONE: BASIC CONCEPTS OF THERAPEUTIC MASSAGE AND BODYWORK
Chapter 1 History of Therapeutic Massage
Chapter 2 Equipment, Environment, and Safety Practices
Chapter 3 The Massage Therapy Session: Preparations for Before, During, and After
Chapter 4 Therapeutic Massage Techniques
Chapter 5 Physiological Effects of Therapeutic Massage
PART TWO: KINESIOLOGY, ANATOMY, AND PATHOPHYSIOLOGY
Chapter 6 Biomechanics of Movement
Chapter 7 Skeletal System
Chapter 8 Muscular System
Chapter 9 Other Body Systems
PART THREE: BEYOND THE BASIC CURRICULUM
Chapter 10 Maternity, Infant, and Pediatric Massage
Chapter 11 Massage for Special Populations (Children with Special Needs, Geriatric, Hospice, & Palliative Care)
Chapter 12 Massage for Survivors of Abuse
Chapter 13 Sports Massage: For Amateur and Professional Athletes
Chapter 14 Spa Therapy: Peace, Beauty, and Massage
PART FOUR: COMPLEMENTARY MASSAGE & BODYWORK MODALITIES
Chapter 15 Oriental Practices and Energy Work
Chapter 16 Introduction to Other Modalities
PART FIVE: WELLNESS FOR BODY AND MIND
Chapter 17 Body-Mind Connection
Chapter 18 Diet and Wellness
Chapter 19 Eastern and Western Principles of Movement
PART SIX: ETHICS AND PROFESSIONAL BUSINESS PRACTICES
Chapter 20 Law, Ethics, and Professionalism
Chapter 21 Business Development, Marketing Success, and Community Education
PART SEVEN: PHARMACOLOGY AND SPECIFIC PATHOLOGY ROUTINES
Chapter 22 Common Medications and Effects in Clients
Chapter 23 Special Massage Routines for Common Pathologies (Carpal Tunnel, Thoracic Outlet, Torticollis, Temporomandibular Joint Dysfunction, and Fibromyalgia)
Quick Guide A: Resource List
Quick Guide B: Aromatherapy, Herbal Preparations, and Supplements
Quick Guide C: Medical Terminology

Massage/Business
BUILDING A HEALTHY BUSINESS
For Massage and Alternative Healthcare Practices
By Jan Saeger, Keiser University and Lewis Rudolph
2010 (January 2009) / 288 pages
ISBN: 978-0-07-340191-1
www.mhhe.com/saegerbusiness

Many students in health care and healing arts curriculums, including massage therapy, physical therapy, chiropractic, homeopathy, athletic or personal training, naturopathy, acupuncture, Reiki, and many more, possess a strong desire to help others but do not know how to create and maintain a thriving practice. Building a Healthy Business: For Massage and Alternative Practices by authors Jan Saeger and Lewis Rudolph gives students of any age the tools needed to start and grow a successful business.

FEATURES
- Online Learning Center contains:
  - Instructor View
  - Instructor Manual
  - PowerPoint Presentations
  - EZ Test
- Student View
  - Quizzes
  - Flashcards
  - Chapter Objectives
- Forms: Numerous examples of forms needed to start and run your business. All the forms can be personalized and printed for use.
- Short and concise chapters with clarity and organization
- Ample personal examples from the field
- Written by practicing therapists with teaching experience
- Numerous variety of forms in different formats
- Practical tips/Checklist
- Can be used to a broad user base-more than just for massage therapist
Engaging, graphical presentation

Appendices with valuable information include:

A state-by-state resource list is included in the appendices to give each state’s website information allowing the reader to log on directly to the site for specifics in licensure/certification of various health care fields.

Budgeting and accounting forms are provided for those individuals who would rather use the familiar pencil & paper worksheet.

CONTENTS

Part One: Starting in the Business World
Chapter 1-Building a Strong Foundation
Chapter 2-Creating a Mission Statement
Chapter 3-Setting Goals
Chapter 4-Evaluation and Application of Your Goals
Chapter 5-Putting Together a Team

Part Two: Living in the Business World
Chapter 6-Budgeting
Chapter 7-Customer, Locations and Service Provided
Chapter 8-Business Layout and Look
Chapter 9-The Legal Aspects
Chapter 10-Getting Help
Chapter 11-Success Through Ethics
Chapter 12-Ethical Business Practices
Chapter 13-Marketing Your Business
Chapter 14-Financial Policies
Chapter 15-Additional Business Policies
Chapter 16-Medical Documentation
Chapter 17-Accounting

Part Three: Enjoying the Fruits of Your Labor
Chapter 18-Enjoying the Fruits of Your Labor

Appendix A-State-by-State Resource Guide
Appendix B-Web Resource Guide
Appendix C-Business Plan
Appendix D-References and Resources
Appendix E-Sample Forms
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 Massage/Clinical

CLINICAL MASSAGE THERAPY
Assessment and Treatment of Orthopedic Conditions

By Steven E Jurch, Trident Technical College

2009 (February 2008) / 560 pages
ISBN: 978-0-07-351093-4

http://www.mhhe.com/jurchclinical

Jurch’s Clinical Massage is designed to outline the principles and foundational understanding of assessing and treating orthopedic injury or dysfunction through massage therapy. The text follows an anatomic region approach, covering surface anatomy and muscle groups before presenting a comprehensive review of the most often presenting orthopedic dysfunctions or conditions. Each dysfunction or condition is reviewed with a consistent diagnostic checklist, a stepped treatment program, and relevant “clinical pearls”. The learning aids throughout the text, along with the reader-friendly writing style, create a highly-effective learning system for understanding the concepts of clinical massage.

FEATURES

- Jurch provides a consistent format for each anatomic area presented
- Jurch provides a consistent, systematic, “stepped program” for each condition discussed: Students will learn the condition name, how to assess, Anatomy & Physiology review, how to find the structures and most importantly how to treat the condition. For example, the students will learn about treating the condition: Myofascia, Soft tissue restoration of function, Range of Motion and Strength.
- Photos correspond to anatomical art: Visual learners will appreciate the photographs and illustrations in the Jurch text. Jurch’s art is focused on the main concepts by using concise labeling methodology that keeps students from getting bogged down with excessive detail. Difficult concepts are broken down into easy-to-understand illustrations.
- Clinical Pearls: This feature will draw students into the materials and help them learn the value of clinical massage and the effective treatment of orthopedic conditions that students will face in their future careers.
- Reference to clinical applications will be highlighted: Students will understand the clinical relevance and important application of massage therapy.
- Jurch: Clinical Massage Student Resources Jurch Online Learning Center
  - Chapter Quizzes
  - Glossary
  - Games
- Jurch: Clinical Massage Instructor Resources
  - Instructor Manual Jurch Online Learning Center
  - Overview
  - Introduction to the material
  - Extended chapter outlines
  - Sample course outlines
  - Curriculum suggestions
  - Sample lesson plans
  - Teaching strategies/instructor tips
  - Learning activities
  - Answers to the questions
    - PowerPoint presentations
    - Image bank of the text’s illustrations
    - EZ Test questions for each chapter

CONTENTS

Part I – General Principles
Chapter 1: Introduction to Clinical Massage
Chapter 2: Review of the basics
Chapter 3: Advanced Concepts

Part II – Regional Approach to Treatment
Chapter 4: Formulating a Treatment Plan
Chapter 5: Conditions of the Head and Neck
Chapter 6: Conditions of the Lumbar Spine and Sacrum
Chapter 7: Conditions of the Shoulder
Chapter 8: Conditions of the Elbow, Forearm, Wrist and Hand
Math for Health Professions

Math & Dosage Calculations for Health Careers
3rd Edition
By Kathryn A. Booth, Total Care Programming and James Whaley, Baker College

2010 (January 2009)
ISBN: 978-0-07-729049-8 (with Student CD)
www.mhhe.com/mathdosage3e

Math and Dosage Calculations for Medical Careers teaches the skills and techniques medical assistants, nurses, pharmacy technicians, and paramedics need to calculate the amount of medication they should administer to patients. Students learn to calculate dosages based on ratio proportions, fraction proportions, the formula method, and dimensional analysis.

NEW TO THIS EDITION
- New homework sheets at the end of each chapter contain 20 to 30 questions to check for students’ understanding of the chapter content.
- Questions have been added to Critical Thinking boxes to apply what has been taught in the previous section of the chapter.
- CD-ROM references throughout that direct the student to exercises and provide for independent review, reinforcement, and evaluation.
- Student CD includes games for reinforcement—Spin the Wheel, Concentration, and New Math Challenge.
- Instructor Manual, located on the password-protected Online Learning Center, provides detailed answer key, additional exercises for each chapter, and an image bank for classroom use. Instructor’s CD-ROM contains the EZTest testing software and Instructor PowerPoint Presentations.
- Includes over 250 full-color, up-to-date illustrations of drugs labels currently used by the health care profession to provide realistic learning.
- Online Learning Center content has been updated.

Contents
1 Fractions and Decimals
2 Percents, Ratios, and Proportions
3 Systems of Weights and Measures

Schaum’s Outline of Mathematics for Nurses
By Larry Stephens, University of Nebraska
2003
ISBN: 978-0-07-140022-0

A Professional Reference Title
A review of basic arithmetic precedes clear explanations of how nurses need to apply mathematics in modern clinical practice. This study guide teaches an especially easy approach to solving the proportion problems key to converting medication orders and passing nursing licensing exams. The profusion of problems with detailed solutions, and hundreds more with answers, gives students ample opportunities to test their skills as they learn them—leading to quicker mastery.

Medical Assisting
- Administrative and Clinical

Medical Office Handbook
By Carlene Harrison, Hodges University

2010 (January 2009) / 320 pages
ISBN: 978-0-07-337413-0

The Complete Medical Office Handbook provides readers with a handy resource for both the student on their externship or going to their first job, as well as the seasoned professional who has been in the medical office for years. The medical office is a busy place with many day-to-day challenges. Each chapter of the Handbook was written to provide the reader with a practical summary of the critical information they need to know. Sample forms, checklists and letters, as well as resources for more information are included.
The Handbook is organized into four sections. Section One covers a variety of communication topics. Chapter 1 is about the first impressions your practice makes when the patient first arrives. Chapter 2 covers general communication skills and Chapter 3 provides a review of basic writing principles.

Section Two provides the reader with a primer in computer applications (Chapter 4) as well as a chapter on the various ways to schedule appointments (Chapter 5).

Section Three is all about the paperwork. We all know there is too much paperwork, but having a fundamental understanding of medical terminology (Chapter 6), medical records and privacy (Chapter 7), health insurance (Chapter 8), basing medical coding (Chapter 9) and the daily management of accounts (Chapter 10) is important in the day to day management of the medical practice.

The last section covers safety and wellness. Safety (Chapter 11) is no longer just infection control and OSHA standards, but is also preparing for that catastrophic event—whether caused by weather or by man, all medical practices need to prepare for the unthinkable. To end the Handbook, a chapter on stress management will help you to better deal with the challenges in the busy office environment.

The Complete Medical Office Handbook is designed to be a well-used reference for the medical office staff. It is also a reference tool for the allied health student first starting out in the fastest growing industry in the country. Working in the medical office provides us with great opportunities and challenges. This book will help you meet some of those challenges.

This reference is a supplemental handbook for the students in medical assisting programs and perhaps a primary text in medical office administration programs offered at the vocational level. Additionally, the physician offices, group practices and clinics throughout the country may be interested in having a copy at the front desk for easy reference for those staff who have no formal training.

Successful handbooks provide good examples. The Complete Medical Office Handbook provides not only the applicable rule but also an illustrative example where appropriate. This handbook is 7 ¼” X 9”, soft-cover, and spiral bound for easy use.

CONTENTS

Section I—Communications
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Chapter 2 Effective Communication
Chapter 3 Writing Basics

Section II—Computer Basics and Scheduling
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Chapter 5 Appointment Scheduling

Section III—The Paperwork
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Chapter 8 Health Insurance
Chapter 9 Essentials of Coding
Chapter 10 The Daily Business in the Medical Office—Accounting and Bookkeeping

Section IV—Office Safety and Wellness
Chapter 11 Safety in the Medical Office
Chapter 12 Managing Stress

NEW TO THIS EDITION

Pocket Guide is a quick and handy reference to use while working as a medical assistant. It includes Critical Procedure Steps, bulleted lists and brief information all medical assistants should know, and Patient Education Tips. Information is sorted by Administrative, Clinical, and General content.

Procedures revised to include Procedure Goals and Rationales.

Each text chapter opener includes a chart indicating Medical Assisting Competencies (CMA and RMA) which are taught in the chapter.

New “Reflecting On...” feature boxes for Legal and Ethical Issues, Communication Issues, Cultural Issues, Professionalism, and HIPAA.

Virtual Field Trips provide simulated activities for each chapter.

Strong pedagogy, including boxed readings and end-of-chapter material add educational value: *Glossary includes pronunciation guide so students learn proper pronunciation of medical terms. *Points on Practice (formerly Tips for the Office) provide helpful suggestions for running an efficient office. *Career Opportunities provide information about additional careers available for medical assistants. *Caution: Handle with Care emphasizes infection control techniques.

Educating the Patient shows how to provide the detailed instructions patients need to carry out their physician’s orders. *End-of-chapter questions and activities help students assess their progress.

Updated and expanded information includes: *Current coding and billing practices, including HIPAA. *Use of technology in the medical office - especially more and varied uses of the Internet, including web site development, patient education, billing and coding.

Expanded Student CD-ROM with applications included in the text. Includes “A Day in the Life of the Medical Assistant” case studies, video clip library, audio glossary and much more!

Comprehensive and thoroughly updated Student Workbook. The workbook has been updated to reflect the extensive textbook revisions. There are more questions. The Procedure Competency Checklists have been improved to include more procedure observer comments.

Online Learning Center with chapter-specific applications, games, quizzes, and links. Also available as a cartridge for Distance Education Platforms: WebCT, Blackboard and eCollege.
ALLIED HEALTH

Instructor’s Resources include lesson plans, teaching strategies, tests and answers, SCANS competency correlation, full-color image bank, and CMA, RMA, and CCMA correlation charts. It also includes a CD-ROM with PowerPoint presentations, class syllabi, clip art from the text and EZ Test generator with answer rationales and correlation to texts and MEDICAL ASSISTING REVIEW.

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Appendix VIII Professional Organizations and Agencies

NEW

ANATOMY, PHYSIOLOGY, AND PATHOPHYSIOLOGY FOR ALLIED HEALTH
2nd Edition
By Kathryn Booth, Total Care Programming and Terri Wyman, Sanford Brown Institute

2009 (February 2008) / 288 pages

Anatomy, Physiology, and Pathophysiology for Allied Health, Second Edition, is an introductory book to the body systems for allied health students. It acquaints students with basic information of all the body systems. The book speaks directly to the student, with chapter introductions, case studies, and chapter summaries written to engage the student’s attention.

CONTENTS

Chapter 1 Organization of the Body
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Chapter 5 The Cardiovascular System
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INVITATION TO PUBLISH

McGraw-Hill is interested in reviewing textbook proposal for publication. Please contact your local McGraw-Hill office or email to asiapub@mcgraw-hill.com

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Website: www.mheducation.asia
Clinical Procedures for Medical Assisting, Third Edition addresses the most current competencies for medical assisting certification, CPR procedures, HIPAA regulations, OSHA guidelines, and clinical diagnostic testing such as hemoglobin A1c (diabetes) testing. It also includes coverage of procedures and the coverage of Anatomy and Physiology is increased significantly. It trains students on clinical procedures, infection control, anatomy and physiology, assisting with patients, medical emergencies and first aid, laboratory procedures, nutrition, pharmacology, diagnostic equipment, and much more.

NEW TO THIS EDITION

- Pocket Guide is a quick and handy reference to use while working as a medical assistant. It includes Critical Procedure Steps, bulleted lists and brief information all medical assistants should know, and Patient Education Tips. Information is sorted by Administrative, Clinical, and General content.
- Procedures revised to include Procedure Goals and Rationales.
- Each text chapter opener includes a chart indicating Medical Assisting Competencies (CMA and RMA) which are taught in the chapter.
- New “Reflecting On...” feature boxes for Legal and Ethical Issues, Communication Issues, Cultural Issues, Professionalism, and HIPAA.
- Virtual Field Trips provide simulated activities for each chapter.
- New chapter—Complementary and Alternative Medicine
- Strong pedagogy, including boxed readings and end-of-chapter material add educational value: *Glossary includes pronunciation guide so students learn proper pronunciation of medical terms.

- Points on Practice (formerly Tips for the Office) provide helpful suggestions for running an efficient office.
- Career Opportunities provide information about additional careers available for medical assistants.
- Caution: Handle with Care emphasizes infection control techniques.
- Educating the Patient shows how to provide the detailed instructions patients need to carry out their physician’s orders.
- End-of-chapter questions and activities help students assess their progress.
- Clinical diagnostic testing such as in-office Hemoglobin A1c testing.
- CPR guidelines to comply with the latest American Heart Association guidelines.
- OSHA issues *Infection control and antibiotic resistance.

- Expanded Student CD-ROM with applications included in the text. Includes “A Day in the Life of the Medical Assistant” case studies, video clip library, audio glossary and much more!
- Comprehensive and thoroughly updated Student Workbook. The workbook has been updated to reflect the extensive textbook revisions. There are more questions. The Procedure Competency Checklists have been improved to include more procedure observer comments.

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MEDICAL ASSISTING
Administrative and Clinical Procedures (without A&P Chapters), 3rd Edition
By Kathryn A Booth, Total Care Programming, Leesa Whicker, Central Piedmont Community College, Donna Jeanne Pugh, Florida Metro University, Sharon K Thompson, Bryant & Stratton Bookstore and Terri D Wyman, Sanford Brown Institute

2009 (February 2008) / 992 pages
(with Student CD, without A&P Chapters)

www.mhhe.com/medicalassisting3

New chapter—Complementary and Alternative Medicine

Strong pedagogy, including boxed readings and end-of-chapter material add educational value. *Glossary includes pronunciation guide so students learn proper pronunciation of medical terms. *Points on Practice (formerly Tips for the Office) provide helpful suggestions for running an efficient office. *Career Opportunities provide information about additional careers available for medical assistants. *Caution: Handle with Care emphasizes infection control techniques. *Educating the Patient shows how to provide the detailed instructions patients need to carry out their physician’s orders. *End-of-chapter questions and activities help students assess their progress.

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NEW TO THIS EDITION
❖ NEW! Text is now 4-color.
❖ Updated information added about waived office procedures.
❖ Added information on safety needles.
❖ The updated Student CD-ROM provides video, audio, and illustrations with interactive exercises to bring the competencies presented in the text to life. Key terms are defined and pronounced correctly. Practicing Law & Ethics, Providing Safety and Infection Control, Patient Education and Communication, and Troubleshooting Activities include critical-thinking questions. There are also drag-and-drop exercises in each chapter to reinforce the student’s knowledge of anatomy, supplies, and equipment discussed in the text. Interactive Questions provide additional review and suggest areas for improvement. The CD-ROM can be used for traditional, hybrid, and distance learning classes. CD has plenty of practice activities with various strips.
❖ Troubleshooting features identify problems which may arise for the phlebotomist and provide suggested solutions. These help promote critical thinking and prepare students for real life situations.
❖ Safety and Infection Control features provide tips and techniques to provide safe care to patients and prevent the spread of infection.
❖ Patient Education and Communication provides suggestions for communicating effectively, both orally and in writing, and provides for patient education related to Phlebotomy.
❖ Law and Ethics features provide information about HIPAA, legal responsibilities, limitations, and implications, as well as performing duties within established ethical practices.
❖ Critical Thinking and Interactive Questions provide review and suggest areas for improvement.

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NEW PHLEBOTOMY FOR HEALTH CARE PERSONNEL WITH STUDENT CD-ROM
2nd Edition
By Kathryn A Booth, Total Care Programming and Antonio C Wallace, Advanced Career Training

2009 (January 2008)
ISBN: 978-0-07-330977-4

www.mhhe.com/healthcareskills

Phlebotomy for Health Care Personnel, Second has been updated to include the CLSI standards and OSHA regulations. The text is now four-color and includes all new photographs and illustrations. It includes information about customer service and phlebotomy procedures in multiple health care environments or situations in addition to the traditional clinic setting. Emphasis is made on regulatory agencies, standards, and certification. Quality control and reporting/treatment procedures for accidental injuries are addressed in the text. Patient education and troubleshooting techniques are prominent features of the text. The instruction in the text is directly linked to the CD-ROM included in the text to reinforce skills and techniques. The can be used in the classroom as well as independent and distance learning.

COMPLIMENTARY COPIES
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ACTIVSIM: MEDICAL ASSISTING CLINICAL SIMULATOR

By McGraw-Hill Education Allied Health

2009 (April 2008)

www.activsim.com/ma

McGraw-Hill ACTIVSim: Medical Assisting Clinical Simulator is made up of two parts: six Patient Case Clinical Simulators and 15 Clinical Skills Simulators. The Patient Case Clinical Simulators introduce students to non-acute medical assisting patient case scenarios, procedure simulators and quick e-learning exercises. Six Patient Case Scenarios: A large portion of core clinical competencies can be simulated on virtual patients, where the learner can interact with a patient and try out the different tasks that a medical assistant performs in physicians' offices. The focus of McGraw-Hill ACTIVSim: Medical Assisting Clinical Simulator is on vital signs and obtaining patient data, including a chart feature, so that the learner can collect vital signs and make notes about observations that the medical assistant can brief the doctor about. ACTIVSim provides an excellent opportunity for students to practice their communication and patient interviewing skills prior to their externships and working in a doctor's office. After each simulation, the learner receives elaborate feedback (debriefing) on their performance. The debriefing includes basic patient assessment issues and recommendations for handling patients who have a particular condition. 15 Clinical Skills Simulators: A number of procedures are necessary clinical competencies that a medical assistant needs to master. Some of these are simple step-by-step procedures, while others are more complex procedures requiring different instruments and devices. ACTIVSim Clinical Skills Simulators emulate these procedures. The difference between full patient simulators (case scenarios) and skills simulators is that in the latter, you focus on the procedures of the skill, e.g., how to check the blood pressure by following a step by step procedure or how to run an autoclave. The patient case simulators take you through entire patient encounters.

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Skin Condition
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Biohazardous Materials
Measure Temperature
Pulse Respiration
Spirometry
Electrocardiography (ECG)
Capillary Puncture
Venipuncture
Urine Analysis
Immunology
Obtain Throat Culture
Chemistry
Sterilize/Autoclave

MEDICAL ASSISTING REVIEW: Passing the CMA, RMA, & CCMA Exams with Student CD, 3rd Edition

By Jahangir Moini, Florida Metro University-Melbourne

2009 (January 2008)
ISBN: 978-0-07-330979-8

www.mhhe.com/moini3

Medical Assisting Review: Passing the CMA, RMA, and CCMA Exams, Third Edition provides example questions for students to prepare for certification exams. This reference prepares students to take the exam with easy-to-read essential material summaries that highlight key areas of the major clinical and administrative parts of a Medical Assistant’s program. Each of the chapters includes a series of 20 to 30 multiple choice quiz questions and a concise outline of key information. The CD-ROM included free in each book provides more than 1500 sample review questions as well as a PowerPoint presentation for additional student review. The review questions include rationales for answers and correlations to certification competencies. There is also a correlation to the textbook location where the information is covered.

NEW TO THIS EDITION
✦ New chapter on General Psychology
✦ Improved Student CD-ROM is easier to use.

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Section 3 Test for Clinical Medical Assisting Knowledge

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HIPAA FOR ALLIED HEALTH CAREERS

By Cynthia Newby, Chestnut Hill Enterprises, Inc

2009 (February 2008) / 192 pages
www.mhhe.com/NewbyHIPAA

HIPAA for Allied Health Careers covers the concepts and knowledge allied health workers need to correctly handle patients’ protected health information (PHI) and to comply with all HIPAA regulations, including: • Administrative Simplification • Privacy Rule • Security Rule • Transactions and Code Sets • Compliance to Avoid Fraud and Abuse Major emphasis is placed on communication skills—written and oral—because they underpin HIPAA compliance in most careers. Such skills include handling requests for release of information (ROI) from patients, payers, and other clinicians; effective interviewing of patients to gather information, complete authorization forms, and explain procedures; and documenting data using tools such as electronic medical records. HIPAA for Allied Health Careers provides students with the must-know information on HIPAA compliance. Titles I (COBRA) and II (HIPAA) are covered. The HIPAA privacy, security, and e-transactions are taught in depth. The concluding chapter presents the recently-published final HIPAA enforcement rule, and also provides an overview of compliance guidelines for the various allied health career settings, such as hospital-, physician practice, and billing-service based careers. Throughout the chapters, students think through case scenarios that cover the types of situations in which allied health personnel will need to make the correct choices for protecting patient privacy under HIPAA.

FEATURES

❖ Compliance Tips
❖ FYI boxes
❖ Internet-based activities
❖ What Is Your Opinion?
❖ Internet Resources
❖ HIPAA Communications

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Chapter 2 The Privacy Rule
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Chapter 4 Transactions and Code Sets Regulations
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ELECTROCARDIOGRAPHY FOR HEALTH CARE PERSONNEL WITH STUDENT CD-ROM
2nd Edition

By Kathryn Booth, Total Care Programming, Patricia DetTos, N. Virginia CC-Springfield and Thomas Edward O’Brien, Central Florida Institute
2008 (June 2007)
ISBN: 978-0-07-330209-6
http://www.mhhe.com/healthcareskills

Electrocardiography for Health Care Personnel provides ECG skills training for health care students as well as health care personnel who are interested in mastering additional skills. The text includes the essential skills needed to perform an ECG, including anatomy of the heart, basic characteristics, equipment, appropriate intervention, and other technical applications, such as Holter monitoring and stress testing. Emphasis throughout the text is placed on troubleshooting.

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Appendix C-Abbreviations/Symbols
Glossary

INTRAVENOUS THERAPY FOR HEALTH CARE PERSONNEL WITH STUDENT CD-ROM

By Kathryn Booth, Total Care Programming
2008 (April 2007)
ISBN: 978-0-07-328112-4
www.mhhe.com/healthcareskills

Intravenous Therapy for Health Care Personnel is one of a kind book for entry-level health care practitioners to learn the basics of IV therapy. This eight-Chapter text/workbook covers the essential topics for IV therapy for entry-level practitioners, including coverage within the scope of practice for Medical Assistants. The book and accompanying CD is highly visual and focus on application and understanding, as well as presenting real-life situations that can occur during IV therapy and their necessary solutions.

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ADMINISTERING MEDICATIONS
6th Edition
By Donna Gauwitz
2008 (September 2007) / 480 pages
ISBN: 978-0-07-352985-8
www.mhhe.com/gauwitzadminmed

Administering Medications: For Pharmacology for Health Careers is designed to teach the safe administration of medications to health care students entering medical assisting and other allied health care professions. This textbook speaks directly to students and encourages students to identify and apply the concepts learned.

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Chapter 3: Measurement and Dosage Calculation
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Chapter 7: Drugs for the Eye and Ear
Chapter 8: Drugs for the Skin
Chapter 9: Drugs for the Cardiovascular System
Chapter 10: Drugs for the Respiratory System
Chapter 11: Drugs for the Gastrointestinal System
Chapter 12: Drugs for the Endocrine System
Chapter 13: Drugs for the Musculoskeletal System
Chapter 14: Drugs for the Nervous and Sensory System
Chapter 15: Antineoplastic Drugs
Chapter 16: Drugs for the Urinary System and Fluid Balance
Chapter 17: Drugs for the Respiratory System
Chapter 18: Psychotropic Drugs
Chapter 19: Antibiotics and Antifungals
Chapter 20: Drugs for the Pediatric Patient
Chapter 21: Drugs for the Geriatric Patient
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Medical Billing and Coding

CODING REVIEW FOR NATIONAL CERTIFICATION
Passing the CPC and CCS-P Exams
By Mary A Harmon, Medtech College
2010 (January 2009) / 320 pages
ISBN: 978-0-07-337398-0

"Coding Review for National Certification: Passing the CPC and CCS-P Exams" is for the student who has completed a formal education in medical coding or an individual with at least three years full-time medical coding experience who is seeking certification. The goal of the textbook is three-fold. First, it guides through an overall review of the CPT and ICD-9 manuals, their guidelines, modifiers, coding conventions and specific notations to coding descriptors. Secondly it provides many practice problems throughout the text, coding problems at the end of each chapter, and a mock examination at the end of the text. Thirdly it helps students to “think like a coder.” Learning to think through every coding problem or question in an analytical, organized, sequential approach teaches students to attack the “problem” in a consistent manner, which in turn, provides consistent accuracy in coding.

FEATURES

- Reinforcement is used consistently throughout the textbook in the form of questions, coding problems/scenarios, examples, tables and illustrations for the student. The textbook follows all of the ICD-9, CPT, HCPCS guidelines and coding conventions that are up-to-date and applied in the textbook in a logical and sequential manner.
- “From the Author” provides insight as to how each chapter is relevant to students’ success in passing a national coding certification. It also explains and reviews the “set-up” of each chapter to aid students in the logical thinking process of a medical coder.
- “Indexing Tips” are used to provide students with the expertise of finding medical codes quickly and accurately. Indexing Tips also provide the student with the process of logical thinking that begins with taxonomy (classification) of the diagnosis or procedure. When repeated in a consistent manner, students will begin to consistently think in an organized and logical manner.
- “Coding Alert!” draws attention to either a principle or coding note that can be easily overlooked or might be unclear to students. Coding Alert! provides critical insight to the concept presented and aids students’ success in understanding more complex ideas.
- “Think Like a Coder” is the theme of this review textbook. It provides consistent reinforcements on how to think in an organized and logical manner with the review theory presented. An organized and logical thinking process is the critical tool necessary to be successful in passing a national certification as students will be consistent in the way they answer each question/problem.
- Full color is used to teach and reinforce visually the concept(s) presented in the review.
- Figures, Tables, and Examples are presented throughout the review textbook. Each is titled and presents clear identification and location. Tables and Examples assemble coding information in a logical, organized manner showing relevance to the concept.
- “Applying Coding to Theory Practice” is specifically designed to enhance the application of reviewed theory in the chapters and to reinforce “Coding Alert!,” “Indexing Tips” and scenarios encountered by “Think Like a Coder.” “Applying Coding to Theory Practice” is a “warm-up” for the mock examination.
- Appendix A, Answers and Rationale provides a learning tool used to reinforce greater comprehension, in-depth understanding of more complex coding situations and provide insight to students’ strengths and weaknesses of medical coding.
- Appendix B presents common abbreviations used in the medical field and provides quick access for clarity of a diagnosis or procedure.
- Appendix C presents tables with correlations to the CPC and CCS-P examinations and their relevant chapters.
- Additional practice tests are available on the password-protected Online Learning Center.

CONTENTS
Preface
Unit 1: Foundation for Taking the Coding Examination
Chapter 1: Test Taking Skills
Chapter 2: Anatomy and Physiology Review
Chapter 3: Medical Terminology and Pathophysiology Review
...
NEW

CASE STUDIES FOR THE MEDICAL OFFICE
Capstone Billing Simulation, 5th Edition

By Susan Sanderson

2010 (January 2009) / 224 pages
ISBN: 978-0-07-340200-0

http://www.mhhe.com/capstone5e

This capstone simulation using Medisoft Patient Billing Software, Version 14, gives students enhanced training that fosters superior qualifications for a variety of medical office jobs. Extensive hands-on practice with realistic source documents teaches students to input information, schedule appointments, and handle billing, reports, and other essential tasks. The simulation is recommended for students who have completed the study of Medisoft Advanced Version 14 using Computers in the Medical Office or Patient Billing.

NEW TO THIS EDITION

❖ Medisoft Advanced Student-at-home software (Optional Package Item), a full-featured software option for distance education or students who want to practice with the software at home. The only limitation is the number of patients a student can enter into the software. Otherwise, this is a full working version.
❖ The Instructor’s Manual (available on the OLC) provides all of the resources necessary to successfully use Case Studies for the Medical Office in your classroom. It includes instructions for installation and troubleshooting the software, teaching suggestions, and answers to the quizzes, daily worksheets, and jobs, including hundreds of Medisoft V14 screenshots for solutions.

CONTENTS
Part 1 Introduction to Polaris Medical Group
Part 2 Polaris Medical Group Policy and Procedure Manual
Part 3 On the Job
Part 4 Source Documents
Glossary
Index

INVITATION TO PUBLISH

McGraw-Hill is interested in reviewing textbook proposal for publication. Please contact your local McGraw-Hill office or email to asiapub@mcgraw-hill.com

Visit McGraw-Hill Education (Asia)
Website: www.mheducation.asia
Hospital Billing, Second Edition provides current content with a practical approach. The content addresses the real world of the hospital billing department, integrating the computer skills and procedures needed for daily work. The material also addresses the types of critical thinking, analysis, and synthesis skills demanded by today's employers. The text includes instruction that entry-level hospital billers must understand, including the following: the hospital billing flow; basic coding and payment systems; the data elements required to complete the recently mandated new UB-04 form; the way in which form-completion requirements vary depending on the type of facility; the medical insurance plan, and inpatient/outpatient status; job performance in compliance with HIPAA privacy and best practices regulations; and how computerized systems are used for form completion.

NEW TO THIS EDITION

- Covers essential background information before introducing the UB-04 form. The exercises in the text can be completed using an interactive simulated UB-04 form.
- Emphasizes compliance with HIPAA.
- Includes Internet projects.
- Expands coverage of hospital inpatient and outpatient coding and payment systems.

CONTENTS

PART 1: THE HOSPITAL BILLING ENVIRONMENT
Chapter 1: Introduction to Hospital Billing
Chapter 2: The Hospital Billing Process
Chapter 3: Hospital Insurance
Chapter 4: Medical Coding Basics
Chapter 5: Payment Methods and Billing Compliance

PART 2: THE UB-04 CLAIM FORM
Chapter 6: Overview of the UB-04 Claim Form
Chapter 7: Provider Information
Chapter 8: Patient Information
Chapter 9: Condition Codes
Chapter 10: Occurrence Codes/Dates
Chapter 11: Value Codes and Amounts
Chapter 12: Revenue Codes, Descriptions, and Amounts
Chapter 13: Payer, Insured, and Employer Information
Chapter 14: Diagnosis and Procedure Codes
Chapter 15: Physician Information, Remarks, and Code-Code Field

PART 3: SIMULATION
Chapter 16: The UB-04 Form Filler
Chapter 17: Case Studies
Appendix A: UB-04 Form Completion Tables
  A-1: UB-04 Form Locators
  A-2: Type of Bill Codes
  A-3: Occurrence Codes and Dates
  A-4: Value Codes

NEW

The Complete Diagnosis Book introduces students to the coding process and uses case studies, examples, and a lighter writing style to sit side-by-side with the student and bring them through learning to code. This book speak directly to students, with respect, and helps them to overcome the intimidation of learning such an important new skill. Case studies, examples, and exercises are salted generously throughout the book to connect the reader with real life scenarios and to help them relate to the issues at hand.

FEATURES

- Learning Outcomes
- Coding Tips
- Examples
- Let's Code It! Case Scenario
- You Code It! Case Study
- Chapter Review
- You Code It! Practice
- You Code It! Simulation

CONTENTS

Chapter 1. Introduction to Diagnostic Coding
Chapter 2. Introduction to the ICD-9-CM Book and Its Codes
Chapter 3. General Guidelines and Notations
Chapter 4. Coding Hypertension and Other Circulatory Conditions
Chapter 5. Coding Neoplasms
Chapter 6. Coding Poisonings/Adverse Reactions
Chapter 7. Coding Burns
Chapter 8. Coding Orthopedics
Chapter 9. Coding Obstetrics and Gynecology
Chapter 10. Coding Congenital and Pediatric Conditions
Chapter 11. Coding Infectious Diseases
Chapter 12. Coding Diabetes Mellitus
Chapter 13. Coding Respiratory Conditions
Chapter 14. Complete Diagnostic Coding Review
Chapter 15. ICD-10-CM – An Introduction
You Code It! A Case Studies Workbook provides extensive coding practice for students to expand their training and experience. The case studies and patient records provide exercises and sample patient records for more than 25 specialties for focused coding practice. In addition, students can use this book for preparation to sit for a national certification exam or going to a job interview. This workbook provides extensive, hands-on practice for learning to code. The cases in this book are real patient charts (redacted) from physicians’ offices and hospitals in different parts of the country. It is a student-friendly workbook presenting case studies for the practice of abstracting health care professionals’ documentation and accurately translating the facts into the best, most accurate codes.

FEATURES
- Realistic patient records provide ample practice for coding students to learn to review and properly code for reimbursement.

CONTENTS
Preface
Chapter 1: How to Abstract Notes
Chapter 2: Allergy and Immunology Cases and Patient Records
Chapter 3: Cardiology and Cardiovascular Cases and Patient Records
Chapter 4: Dentistry Cases and Patient Records
Chapter 5: Dermatology and Burns Cases and Patient Records
Chapter 6: Emergency Services Cases and Patient Records
Chapter 7: Endocrinology Cases and Patient Records
Chapter 8: Family Practice Cases and Patient Records
Chapter 9: Gastroenterology Cases and Patient Records
Chapter 10: Gerontology Cases and Patient Records
Chapter 11: Neonatal and Pediatrics Cases and Patient Records
Chapter 12: Neurology Cases and Patient Records
Chapter 13: Obstetrics and Gynecology Cases and Patient Records
Chapter 14: Oncology Cases and Patient Records
Chapter 15: Ophthalmology Cases and Patient Records
Chapter 16: Orthopedics Cases and Patient Records
Chapter 17: Otolaryngology Cases and Patient Records
Chapter 18: Pathology and Laboratory Cases and Patient Records
Chapter 19: Plastic and Reconstructive Surgery Cases and Patient Records
Chapter 20: Podiatry Cases and Patient Records
Chapter 21: Psychiatric Cases and Patient Records
Chapter 22: Pulmonary and Respiratory Cases and Patient Records
Chapter 23: Radiology and Nuclear Medicine Cases and Patient Records
Chapter 24: Urology, Nephrology, and Men’s Health Cases and Patient Records

Medical Billing & Coding Demystified
By Marilyn Burgos, Donya Johnson and James Keogh
2007 / 239 pages
ISBN: 978-0-07-147220-3
A Professional Reference Title
This handy resource clearly explains the principles and practices used by medical offices, hospitals, and health facilities to encode medical services in order to receive payment from government agencies and insurance companies.

CONTENTS
Chapter 1: Introduction to Medical Billing and Coding
Chapter 2: Ethical and Legal Aspects of Medical Billing
Chapter 3: Medical Terminology and Procedures
Chapter 4: Medical Office Procedures
Chapter 5: Introduction to Diagnostic Procedures
Chapter 6: Introduction to Procedural Coding
Chapter 7: Introduction to Insurance Plans
Chapter 8: The Insurance Claim Cycle
Chapter 9: Billing and Coding Errors—How to Avoid Them
Chapter 10: Strategies for Handling Claim Disputes
Chapter 11: Medical Billing Software Programs and Systems
Chapter 12: Finding Employment in the Healthcare Industry
Final Exam
Answers to Quiz and Exam Questions
Index

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- submit online at www.mheducation.asia

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Website: www.mheducation.asia
HIPAA FOR ALLIED HEALTH CAREERS
By Cynthia Newby, Chestnut Hill Enterprises, Inc

2009 (February 2008) / 192 pages

HIPAA for Allied Health Careers covers the concepts and knowledge allied health workers need to correctly handle patients’ protected health information (PHI) and to comply with all HIPAA regulations, including: • Administrative Simplification • Privacy Rule • Security Rule • Transactions and Code Sets • Compliance to Avoid Fraud and Abuse Major emphasis is placed on communication skills—written and oral—because they underpin HIPAA compliance in most careers. Such skills include handling requests for release of information (ROI) from patients, payers, and other clinicians; effective interviewing of patients to gather information, complete authorization forms, and explain procedures; and documenting data using tools such as electronic medical records. HIPAA for Allied Health Careers provides students with the must-know information on HIPAA compliance. Titles I (COBRA) and II (HIPAA) are covered. The HIPAA privacy, security, and e-transactions are taught in depth. The concluding chapter presents the recently-published final HIPAA enforcement rule, and also provides an overview of compliance guidelines for the various allied health career settings, such as hospital-, physician practice, and billing-service based careers. Throughout the chapters, students think through case scenarios that cover the types of situations in which allied health personnel will need to make the correct choices for protecting patient privacy under HIPAA.

FEATURES
- Compliance Tips
- FYI boxes
- Internet-based activities
- What Is Your Opinion?
- Internet Resources
- HIPAA Communications

CONTENTS
Chapter 1 The Goal of HIPAA: Administrative Simplification
Chapter 2 The Privacy Rule
Chapter 3 The Security Rule
Chapter 4 Transactions and Code Sets Regulations
Chapter 5 Compliance

FROM PATIENT TO PAYMENT
Insurance Procedures for the Medical Office with Student Data CD, 5th Edition
By Cynthia Newby, Chestnut Hill Enterprises, Inc
2008 (September 2006)
ISBN: 978-0-07-325479-1

From Patient to Payment: Insurance Procedures for the Medical Office, provides a practical, focused overview of medical insurance and billing. Each chapter is structured to give students a hands-on, practical approach to understanding and working with claims, both paper and electronic, and the medical billing process. This text is precisely tailored for a brief introduction, as the fundamental understanding of coding and claim filing principles is the goal. Incorporated are the latest HIPAA forms and regulations, medical coding, and electronic claims in a clear and focused program. It equips students with the basics of preparing correct health care claims, and provides a brief introduction to Medisoft Advanced v.11 software, which can be used to complete claims.

CONTENTS
Chapter 1 From Patient to Payment: Becoming a Medical Specialist
Chapter 2 HIPAA and the Legal Medical Record
Chapter 3 Diagnostic Coding
Chapter 4 Procedural Coding
Chapter 5 Payment Methods: Managed Care and Indemnity Plans
Chapter 6 Health Care Claim Preparation
Chapter 7 Claim Transmission, RA/EOB Follow-up, and Collections
Chapter 8 Blue Cross and Blue Shield
Chapter 9 Medicare
Chapter 10 Medicaid
Chapter 11 TRICARE and CHAMPVA
Chapter 12 Worker’s Compensation
Chapter 13 Disability
Chapter 14 Dental Insurance
Chapter 15 Hospital Insurance
Appendix Health Care Claim Simulations Using Medisoft
Glossary
Index

MEDICAL INSURANCE CODING WORKBOOK
2007-2008
4th Edition
By Cynthia Newby, Chestnut Hill Enterprises
2008 (January 2007) / 160 pages
ISBN: 978-0-07-352205-0

The Medical Insurance Coding Workbook for Physician Practices builds coding expertise by providing thorough practice, tips, and reinforcement in code selection and linkage. This supplementary workbook offers extensive opportunities for students to practice ICD-9-CM (diagnoses) and CPT/HCPCS (procedures) coding using the standard code reference manuals. Unique coding linkage coverage reviews and practices reporting diagnosis and procedures codes correctly together for compliant coding. The exercises build from one-line diagnostic/procedural statements to case studies. The Workbook also contains three comprehensive examinations covering ICD-9-CM, CPT/HCPCS, and Code Linkage topics. The Medical Insurance Coding Workbook for Physician Practices is designed to help users master the information needed to pass the coding certification exams and become employable. The precise and tightly focused nature of the workbook helps instructors to readily gauge students’ levels of coding proficiency.
Medical Law & Ethics

NEW

LAW & ETHICS FOR MEDICAL CAREERS
5th Edition

By Karen Judson, Carlene Harrison, International College and Sharon Blasie Hicks

2010 (January 2009) / 448 pages

http://www.mhhe.com/judson5

Law and Ethics for Medical Careers, Fifth Edition, provides an overview of the laws and ethics you should know to help you give competent, compassionate care to patients that is within acceptable legal and ethical boundaries. The text can also serve as a guide to help you resolve the many legal and ethical questions you may reasonably expect to face as a student and, later, as a health care practitioner. The text features pertinent legal cases, anecdotes, and sidebars related to health-related careers. Content has been updated and special attention has been paid to legislation affecting health care.

NEW TO THIS EDITION

- NEW 4-color design makes the text more attractive and appealing to students. Interesting photos have been added to enhance the learning experience.
- Video Vignettes, located on the Online Learning Center, provide short video clips that showcase a problem or situation common to health care. After viewing the clip, students are asked to respond to multiple choice questions based on the instruction in the text. There is one vignette per chapter.
- New Chapter—Health Care Trends and Forecasts discusses issues that are critical to the health care environment and to health care workers, such as health care costs, access, and quality, and what lies ahead in medical technology and in health information technology.
- Court Cases summarize lawsuits that illustrate points made in the text. In each case, students should consider the relevance of the case to their health care specialty area and note the outcome. Determine why the court made its particular ruling. The legal citations at the end of each court case indicate where to locate the complete text of a case. “Classic” cases are those that established ongoing precedent. New for the fifth edition is a Case Index for searching by subject or case title.
Section Two provides the reader with a primer in computer applications (Chapter 4) as well as a chapter on the various ways to schedule appointments (Chapter 5).

Section Three is all about the paperwork. We all know there is too much paperwork, but having a fundamental understanding of medical terminology (Chapter 6), medical records and privacy (Chapter 7), health insurance (Chapter 8), basing medical coding (Chapter 9) and the daily management of accounts (Chapter 10) is important in the day to day management of the medical practice.

The last section covers safety and wellness. Safety (Chapter 11) is no longer just infection control and OSHA standards, but is also preparing for that catastrophic event—whether caused by weather or by man, all medical practices need to prepare for the unthinkable. To end the Handbook, a chapter on stress management will help you to better deal with the challenges in the busy office environment.

The Complete Medical Office Handbook is designed to be a well-used reference for the medical office staff. It is also a reference tool for the allied health student first starting out in the fastest growing industry in the country. Working in the medical office provides us with great opportunities and challenges. This book will help you meet some of those challenges.

This reference is a supplemental handbook for the students in medical assisting programs and perhaps a primary text in medical office administration programs offered at the vocational level. Additionally, the physician offices, group practices and clinics throughout the country may be interested in having a copy at the front desk for easy reference for those staff who have no formal training.

Successful handbooks provide good examples. The Complete Medical Office Handbook provides not only the applicable rule but also an illustrative example where appropriate. This handbook is 7 ¼" X 9", soft-cover, and spiral bound for easy use.

CONTENTS

Section I—Communications
  Chapter 1 First Impressions
  Chapter 2 Effective Communication
  Chapter 3 Writing Basics

Section II—Computer Basics and Scheduling
  Chapter 4 Computers in the Medical Office
  Chapter 5 Appointment Scheduling

Section III—the Paperwork
  Chapter 6 Medical Terminology
  Chapter 7 Medical Records and Privacy
  Chapter 8 Health Insurance
  Chapter 9 Essentials of Coding
  Chapter 10 The Daily Business in the Medical Office—Accounting and Bookkeeping

Section IV—Office Safety and Wellness
  Chapter 11 Safety in the Medical Office
  Chapter 12 Managing Stress
FLUIDS AND ELECTROLYTES DEMYSTIFIED
*By Joyce Y Johnson, Albany State University*

2008 / 304 pages

A Professional Reference Title

Written by a nursing professor, this accessible guide explains, clearly and concisely, the key elements underlying fluid, electrolyte, and acid-base balance and imbalances. You will learn about the various health conditions related to imbalances and get details on diagnostic testing, regulators, and treatment options. Useful charts and key terms throughout help you to remember important concepts. Complete with end-of-chapter quizzes to test your knowledge, this book will teach you the fundamentals of fluids and electrolytes in no time at all.

CONTENTS
1. Key elements underlying fluid, electrolytes and acid-base balance
2. General nursing assessments and diagnostic tests related to fluid, electrolyte and acid-base balance
3. Fluid Volume Imbalances
4. Sodium Imbalances
5. Potassium Imbalances
6. Calcium Imbalances
7. Magnesium Imbalances
8. Phosphorus Imbalances
9. Acid-Base Imbalances
10. General Conditions related to Fluid and Electrolyte Imbalances
11. Renal Conditions
12. Gastrointestinal Conditions
13. Heart Failure
14. Cirrhosis
15. Pancreatitis
16. Diabetic Hyperosmolar Syndrome
17. Burn Injury
18. Oncologic Conditions
19. Endocrine Conditions
20. Other conditions effecting/effected by fluid-electrolyte and acid-base imbalances: Surgery, Head Injury

McGRAW-HILL MANUAL OF LABORATORY AND DIAGNOSTIC TESTS
*By Denise D Wilson*

2008 / 608 pages
ISBN: 978-0-07-148152-6

A Professional Reference Title

McGraw-Hill's Manual of Laboratory & Diagnostic Tests focuses specifically on what you need to know to understand the test, educate the patient, and provide safe, effective care before, during, and after the test. In addition, this easy-to-use clinical companion is the only text to actively incorporate evidence-based practice features throughout, both in test monographs and appendices—a major advantage that enhances your ability to apply the book’s content to your daily practice.

CONTENTS
Preface
Introduction
Alphabetical Listing of 359 Laboratory and Diagnostic Tests
Appendix A: Typical Groupings of Blood/Urine Tests
Appendix B: The Endocrine System: Signals and Feedback
Appendix C: Safety of the Patient
Appendix D: Safety of the Health Care Provider
Appendix E: Evidence-Based Practice

NURSE’S TOOLBOX FOR PROMOTING WELLNESS
*By Carol Miller*

2008 / 600 pages
ISBN: 978-0-07-147761-1

A Professional Reference Title

While many books have covered the theoretical aspects of wellness, only one resource gives you a real sense of what wellness looks like at the bedside: the Nurse’s Toolkit for Promoting Wellness. Compact and easy to use, this unique how-to guide is filled with wellness-oriented clinical tools and practical suggestions, from teaching nutritional wellness to promoting specific aspects of patients’ wellness such as moving and breathing well.

CONTENTS
PART I: OVERVIEW OF WELLNESS NURSING
1 Exploring the Wellness Territory
2 Fitting Wellness into Practice
3 Fine Tuning Our Wellness Skills
PART II: PROMOTING PATIENTS’ WELLNESS IN THEIR DAILY LIVES
4 Promoting Wellness-Enhancing Decisions
5 Incorporating Body-Mind-Spirit Interventions into Nursing Care
6 Teaching about Self-Wellness Actions
7 Teaching about Nutritional Wellness
8 Promoting Responsible Decisions about Complementary and Alternative Practices
9 Promoting Responsible Decisions about Herbs, Medications, and Other Bioactive Substances
10 Protecting Health

PART III: PROMOTING SPECIFIC ASPECTS OF PATIENTS’ WELLNESS
11 Gastrointestinal Wellness
12 Moving Well
13 Sensory Wellness
14 Breathing Well
15 Cardiovascular Wellness
16 Urinary Wellness
17 Sleeping Well
18 Sexual Wellness
NEW MCGRaw-HILL LEARNSMART: MEDICAL TERMINOLOGY
By McGraw-Hill Higher Education Allied Health
2010 (January 2009)
This online Medical Terminology training program provides a brand-new approach to facts-based curricula based on the well-known concept of flash-cards, only much better. It intelligently generates a “deck” of cards for medical terms with definitions on the reverse. Students take an online pretest to qualify medical terms they already know, think they know, or don’t know at all. This pretest provides a study schedule to allow students to learn the terms smarter and faster. Based on a new approach to learning, students are forced to think about whether or not they really know the terms which will generate stronger metacognitive skills. The aspect of luck is eliminated as students are more likely better at assessing whether they really know the information or were guessing during the pretest.

FEATURES
- Training can be set in two different modes—competency-based or time-based.
- Personal learning planner, based on the pretest, provides individually tailored curricula. This individualized instruction helps students avoid unnecessary practice for terms they already know and better utilizes time for learning.
- Pronunciation of medical terms provides correct pronunciations for students.
- Comprehensive reports provide students and instructors with detailed information about students’ progress.
- Web-based instruction allows students to access training from any location with computers with Internet access. This new approach to learning medical terminology offers enhanced learning and retention of key terms.
- This product can be integrated into any Learning Management System that is SCORM compliant.
- This product is book agnostic so it can easily be integrated into any medical terminology course.

NEW MEDICAL TERMINOLOGY AUDIO CD-ROM
3rd Edition
By Nina Thierer, Ivy Tech Comm College of Indiana, Deb Nelson, Judy Ward, Ivy Tech Comm College of Indiana and La Tonya Young, Georgia State University
2010 (January 2009)
ISBN: 978-0-07-730234-4
www.mhhe.com/medterm3
Medical Terminology: Language for Health Care provides the comprehensive coverage needed for a 2-term or intensive 1-term Medical Terminology course. It provides clear instruction on the basics of anatomy and physiology, using a body systems approach, and making use of extensive new line art figures and photos. The text includes both clinical and administrative office examples and cases that provide a realistic context for introducing terms and definitions. The student textbook comes with a free Student CD-ROM with interactive exercises and activities, and a two-CD audio program for building pronunciation skills.

NEW TO THIS EDITION
- An Annotated Instructor’s Edition is available as a pdf on the password-protected Instructor’s Side of the Online Learning Center. The printable file provides an smaller version of the student pages surrounded by answers to exercises, teaching suggestions, and other important information especially for the novice instructor.
- This two-semester text provides instruction for learning medical terminology in a student-friendly format and length.
- Quantity of exercises has been nearly doubled from quantity in second edition. The major emphasis on the new exercises is on word building and repetitive reinforcement.

CONTENTS
How to Use This Program
1 Learning Terminology
2 Prefixes and Suffixes in Medical Terms
3 Body Structure
4 The Integumentary System
5 The Musculoskeletal System
6 The Cardiovascular System
7 The Respiratory System
8 The Nervous System
9 The Urinary System
10 The Female Reproductive System
11 The Male Reproductive System
12 The Blood System
13 The Lymphatic and Immune Systems
14 The Digestive System
15 The Endocrine System
16 The Sensory System
17 Human Development
18 Terms in Oncology—Cancer and Its Causes
19 Diagnostic Imaging, Radiation Oncology, and Surgery
20 Terms in Psychiatry
21 Terms in Dental Practice
22 Terms in Pharmacology
23 Terms in Complementary and Alternative Medicine
Appendix A—Combining Forms, Prefixes, and Suffixes
Appendix B—Abbreviations—Ones to Use and Ones to Avoid
Appendix C—English Glossary
Appendix D—Spanish Glossary
Appendix E—Normal Laboratory Values
Appendix F—Medical Terminology Style
Index

NEW

ANATOMY, PHYSIOLOGY, AND PATHOPHYSIOLOGY FOR ALLIED HEALTH
2nd Edition
By Kathryn Booth, Total Care Programming and Terri Wyman, Sanford Brown Institute

2009 (February 2008) / 288 pages

Anatomy, Physiology, and Pathophysiology for Allied Health, Second Edition, is an introductory book to the body systems for allied health students. It acquaints students with basic information of all the body systems. The book speaks directly to the student, with chapter introductions, case studies, and chapter summaries written to engage the student’s attention.

CONTENTS
Chapter 1 Organization of the Body
Chapter 2 The Integumentary System
Chapter 3 The Skeletal System
Chapter 4 The Muscular System
Chapter 5 The Cardiovascular System
Chapter 6 The Respiratory System
Chapter 7 The Nervous System
Chapter 8 The Urinary System
Chapter 9 The Reproductive Systems
Chapter 10 The Lymphatic and Immune Systems
Chapter 11 The Digestive System
Chapter 12 The Nervous System
Chapter 13 Special Senses
Chapter 14 The Organizational Role Delineation Chart (AAMA)
Chapter 15 The RMA Certification Chart
Chapter 16 The NHA Certification Chart
Appendix IV Prefixes and Suffixes Commonly Used in Medical Terms
Appendix V Latin and Greek Equivalents Commonly Used in Medical Terms
Appendix VI Abbreviations Commonly Used in Medical Notations
Appendix VII Symbols Commonly Used in Medical Notations
Appendix VIII Professional Organizations and Agencies
McGRAW-HILL MEDICAL DICTIONARY FOR ALLIED HEALTH
By Myrna Breskin, Chestnut Hill Enterprises, Kevin Dumith, Sanford Brown Institute, Enid Pearson and Robert Seeman
2008 (May 2007) / 656 pages
ISBN: 978-0-07-334727-1 (with Student CD)

Kevin Dumith has teamed up with Myrna Breskin to compile the McGraw Hill Allied Health Dictionary. With Kevin’s long experience working as a medical terminology instructor in a career college and with Myrna’s background as a lexicographer, the dictionary has the combined experience of these two people directing a staff that has written a truly useful reference book. This dictionary will be the only one on the market specifically aimed at the allied health level. This important distinction makes it a very salable product for a student population that has traditionally found the learning of medical terminology one of the most challenging in the allied health curriculum. It is written for the student who finds the higher level dictionaries written for the health care practitioner too difficult to understand and to navigate, the definitions are clear and concise. The only etymologies given are useful word-building breakdowns that reinforce this skill necessary to understanding medical terms. The appendices make this reference a tool that will follow the allied health student into the workplace as a “keeper” for a long time to come. There is a 32-page insert of anatomy plates that cover the body systems with beautiful illustrations as well as instructive and helpful text.

CONTENTS
Introduction
How to use this dictionary
Letters a-z
Anatomical plates 1-32
Appendices
Combining forms, prefixes, and suffixes
Abbreviations and medical errors
Normal laboratory values
Spanish terms
Weights and measures
Dietary guidelines

MEDICAL TERMINOLOGY
A Programmed Approach with Student CD/Flashcards/Online Learning Center
By Paula Bostwick
2008 (March 2007) / 608 pages
ISBN: 978-0-07-333505-6
http://www.mhhe.com/medtermprogrammed

Medical Terminology: A Programmed Approach is the ideal resource for instructors and students wanting a concise and systematic approach to learning the language of health care. Recognizing that students learn medical terminology by constructing and deconstructing words into their parts, the authors have built this process into the text and the numerous exercises. The approach builds and constantly reinforces skills needed to deal with increasingly complicated terms. A body systems organization is used, providing a clear content framework for the text. Each body system Chapter separates words into easily learnable groups: major parts of each system; word parts related to each system; and diagnostic, pathological, surgical and pharmacological terms. Carefully chosen Chapter features help bring the subject to life, and add an on-the-job perspective. Case-study information is built into examples, and real medical documents are used whenever appropriate. Internet references are included throughout, to emphasize the importance of online resources and tools. While most activities are straight-forward practice exercises, word-building and critical thinking skills are also built in, wherever possible, material on Complementary and Alternative Medicine (“CAM”) is included to highlight this growing area of medicine. In addition to the text, students will be able to access a wealth of electronic resources to aid their studies: The Student CD-ROM will include a suite of activity-based learning tools: crossword puzzles, “Hangman” game, “Concentration”, term to definition matching, audio feedback, and “That’s Epidemic”, an activity focusing on pathology terms. Exercises aregradable online, or can be used for self-paced review. The Online Learning Center website (“OLC”) will provide a set of additional self-test questions; Chapter study outlines; web links of interest; and additional word-building activities. An optional Spanish/English audio CD ROM is available, which includes pronunciations of key medical terms in both languages. English-language audio CD ROMs (2) are also available as an optional package item; these include pronunciation of all terms included in the text. Instructors will also find a wealth of teaching & learning resources for their classes: The Instructor’s Manual (“IM”) will contain answers to all exercises, teaching strategy suggestions, and discussion of word-building techniques. The Instructor Productivity Center CD ROM (“IPC”) will contain the IM in electronic form; PowerPoint presentations for each Chapter; and electronic test generator and test banks (with 300 questions).

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Unit 10 Terms in the Female Reproductive System
Unit 11 Terms in the Male Reproductive System
Unit 12 Terms in the Blood System

MEDICAL TERMINOLOGY WORD BUILDER AND COMMUNICATIONS WORKBOOK WITH FLASHCARDS
By Nina Thierer, Ivy Tech Comm College of Indiana-Ft Wayne and Kevin Dumith, Sanford Brown Institute
2008 (January 2007)
ISBN: 978-0-07-331544-7

Nina Thierer has teamed with Kevin Dumith to bring to market a workbook that will complement a number of allied health products, especially the Allied Health Dictionary and the medical terminology textbooks published by McGraw-Hill. The Medical Terminology WordBuilder and Communications Workbook emphasizes the dual tasks of word building and communication—the prime learning difficulties for most students in medical terminology and related courses. Particularly in the private career colleges, these two areas are where schools are putting the bulk of their emphasis in an attempt to make their students valuable employees in their allied health careers. The workbook is check-full of exercises, case studies, and verbal and written communication work that will guide the student through realistic simulations of job activities and job search tasks.

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This online Medical Terminology training program provides a brand-new approach to facts-based curricula based on the well-known concept of flash-cards, only much better. It intelligently generates a “deck” of cards for medical terms with definitions on the reverse. Students take an online pretest to qualify medical terms they already know, think they know, or don’t know at all. This pretest provides a study schedule to allow students to learn the terms smarter and faster. Based on a new approach to learning, students are forced to think about whether or not they really know the terms which will generate stronger metacognitive skills. The aspect of luck is eliminated as students are more likely better at assessing whether they really know the information or were guessing during the pretest.

FEATURES
- Training can be set in two different modes--competency-based or time-based.
- Personal learning planner, based on the pretest, provides individually tailored curricula. This individualized instruction helps students avoid unnecessary practice for terms they already know and better utilizes time for learning.
- Pronunciation of medical terms provides correct pronunciations for students.
- Comprehensive reports provide students and instructors with detailed information about students’ progress.
- Web-based instruction allows students to access training from any location with computers with Internet access. This new approach to learning medical terminology offers enhanced learning and retention of key terms.
- This product can be integrated into any Learning Management System that is SCORM compliant.
- This product is book agnostic so it can easily be integrated into any medical terminology course.

MEDICAL LANGUAGE FOR MODERN HEALTH WITH STUDENT CD-ROM
By David Allan, Michelle Buchman, Everest College and Karen Lockyer
2008 (May 2007)
ISBN: 978-0-07-327294-8
http://www.mhhe.com/allanmedlanguage

MEDICAL LANGUAGE FOR MODERN HEALTH CARE Combining the Time-Tested A & P Approach with a New Contextual Approach Promotes Active Learning Chapters in the textbook are organized by body system in accordance with an overall anatomy and physiology (A & P) approach. Lessons introduce and define terminology through the context of A & P, pathology, and clinical and diagnostic procedures/tests. The organization of the body systems into Chapters is based on an “outside to inside” sequence that reflects a physician’s differential diagnosis method used during an examination. To provide students with an authentic context, the medical specialty associated with each body area or system is introduced along with the anatomy and physiology. Students actually step into the role of an allied health professional associated with each specialty. Patient cases and documentation are used to illustrate the real-life application of medical terminology in modern health care: to care for and communicating with patients, and to interact with other members of the health care team. The A & P organizational approach, used in conjunction an authentic medical setting and patient cases, encourages student motivation and facilitates active, engaged learning. Each Chapter is structured around a consistent and unique framework of pedagogic devices. No matter what the subject matter of a Chapter, the structure enables students to develop a consistent learning strategy, making Medical Language for Modern Health Care a superior learning tool.

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Chapter 12: male reproductive system: more language of urology
Chapter 13: female reproductive system and breast: the language of gynecology and obstetrics
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Chapter 15: lymphatic and immune systems: the language of immunology
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Chapter 19: mental health: the language of psychology and psychiatry
Chapter 20: infection: the language of infectious diseases
Chapter 21: genetics: the language of dna
Chapter 22: nutrition: the language of nutrition
Chapter 23: complementary and alternative medicine: the language of cam

Appendix A Combining Forms, Prefixes, and Suffixes
Appendix B Normal Laboratory Values
Appendix C Sample Medical Documents

MEDICAL TERMINOLOGY

NEW

MCGRaw-Hill LearnSmart: Medical Terminology
By McGraw-Hill Higher Education Allied Health
2010 (January 2009)

This product is book agnostic so it can easily be integrated into any medical terminology course.

Unit 13 Terms in the Lymphatic and Immune Systems
Unit 14 Terms in the Digestive System
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McGRAW-HILL MEDICAL DICTIONARY FOR ALLIED HEALTH
By Myrna Breskin, Chestnut Hill Enterprises, Kevin Dumith, Sanford Brown Institute, Enid Pearson and Robert Seeman
2008 (May 2007) / 656 pages
ISBN: 978-0-07-334727-1 (with Student CD)

Kevin Dumith has teamed up with Myrna Breskin to compile the McGraw Hill Allied Health Dictionary. With Kevin’s long experience working as a medical terminology instructor in a career college and with Myrna’s background as a lexicographer, the dictionary has the combined experience of these two people directing a staff that has written a truly useful reference book. This dictionary will be the only one on the market specifically aimed at the allied health level. This important distinction makes it a very salable product for a student population that has traditionally found the learning of medical terminology one of the most challenging in the allied health curriculum. It is written for the student who finds the higher level dictionaries written for the health care practitioner too difficult to understand and to navigate, the definitions are clear and concise. The only etymologies given are useful word-building breakdowns that reinforce this skill necessary to understanding medical terms. The appendices make this reference a tool that will follow the allied health student into the workplace as a “keeper” for a long time to come. There is a 32-page insert of anatomy plates that cover the body systems with beautiful illustrations as well as instructive and helpful text.

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How to use this dictionary
Letters a-z
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Normal laboratory values
Spanish terms
Weights and measures
Dietary guidelines

MEDICAL TERMINOLOGY WORD BUILDER AND COMMUNICATIONS WORKBOOK WITH FLASHCARDS
By Nina Thierer, Ivy Tech Comm College of Indiana-Ft Wayne and Kevin Dumith, Sanford Brown Institute
2008 (January 2007)
ISBN: 978-0-07-331544-7

Nina Thierer has teamed with Kevin Dumith to bring to market a workbook that will complement a number of allied health products, especially the Allied Health Dictionary and the medical terminology textbooks published by McGraw-Hill. The Medical Terminology WordBuilder and Communications Workbook emphasizes the dual tasks of word building and communication—the prime learning difficulties for most students in medical terminology and related courses. Particularly in the private career colleges, these two areas are where schools are putting the bulk of their emphasis in an attempt to make their students valuable employees in their allied health careers. The workbook is chock-full of exercises, case studies, and verbal and written communication work that will guide the student through realistic simulations of job activities and job search tasks.

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Medical Terminology 2-Term

NEW

MCGRaw-HiLL LEARNSMART: MEDICAL TERMINOLOGY
By McGraw-Hill Higher Education Allied Health
2010 (January 2009)

This online Medical Terminology training program provides a brand-new approach to facts-based curricula based on the well-known concept of flash-cards, only much better. It intelligently generates a “deck” of cards for medical terms with definitions on the reverse. Students take an online pretest to qualify medical terms they already know, think they know, or don’t know at all. This pretest provides a study schedule to allow students to learn the terms smarter and faster. Based on a new approach to learning, students are forced to think about whether or not they really know the terms which will generate stronger metacognitive skills. The aspect of luck is eliminated as students are more likely better at assessing whether they really know the information or were guessing during the pretest.

FEATURES

- Training can be set in two different modes—competency-based or time-based.
- Personal learning planner, based on the pretest, provides individually tailored curricula. This individualized instruction helps students avoid unnecessary practice for terms they already know and better utilizes time for learning.
- Pronunciation of medical terms provides correct pronunciations for students.
- Comprehensive reports provide students and instructors with detailed information about students’ progress.
- Web-based instruction allows students to access training from any location with Internet access. This new approach to learning medical terminology offers enhanced learning and retention of key terms.
- This product can be integrated into any Learning Management System that is SCORM compliant.
- This product is book agnostic so it can easily be integrated into any medical terminology course.

NEW MEDICAL TERMINOLOGY Language for Health Care with Student CD-Roms and Audio CDs, 3rd Edition
By Nina Thierer, Ivy Tech Comm College of Indiana, Deb Nelson, Judy Ward, Ivy Tech Comm College of Indiana and LaTonya Young, Georgia State University

2010 (January 2009)
ISBN: 978-0-07-730234-4
www.mhhe.com/medterm3

Medical Terminology: Language for Health Care provides the comprehensive coverage needed for a 2-term or intensive 1-term Medical Terminology course. It provides clear instruction on the basics of anatomy and physiology, using a body systems approach, and making use of extensive new line art figures and photos. The text includes both clinical and administrative office examples and cases that provide a realistic context for introducing terms and definitions. The student textbook comes with a free Student CD-ROM with interactive exercises and activities, and a two-CD audio program for building pronunciation skills.

NEW TO THIS EDITION

- An Annotated Instructor’s Edition is available as a pdf on the password-protected Instructor’s Side of the Online Learning Center. The printable file provides an smaller version of the student pages surrounded by answers to exercises, teaching suggestions, and other important information especially for the novice instructor.
- This two-semester text provides instruction for learning medical terminology in a student-friendly format and length.
- Quantity of exercises has been nearly doubled from quantity in second edition. The major emphasis on the new exercises is on word building and repetitive reinforcement.

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Appendix A—Combining Forms, Prefixes, and Suffixes
Appendix B—Abbreviations—Ones to Use and Ones to Avoid
MEDICAL LANGUAGE FOR MODERN HEALTH WITH STUDENT CD-ROM
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MEDICAL TERMINOLOGY
A Programmed Approach with Student CD/Flashcards/Online Learning Center
By Paula Bostwick
2008 (March 2007) / 608 pages
ISBN: 978-0-07-333505-6
http://www.mhhe.com/medtermprogrammed

Medical Terminology: A Programmed Approach is the ideal resource for instructors and students wanting a concise and systematic approach to learning the language of health care. Recognizing that students learn medical terminology by constructing and deconstructing words into their parts, the authors have built this process into the text and the numerous exercises. The approach builds and constantly reinforces skills needed to deal with increasingly complicated terms. A body systems organization is used, providing a clear context for the text. Each body system Chapter separates words into easily learnable groups: major parts of each system; word parts related to each system; and diagnostic, pathological, surgical and pharmacological terms. Carefully chosen Chapter features help bring the subject to life, and add an on-the-job perspective. Case-study information is built into examples, and real medical documents are used whenever appropriate. Internet references are included throughout, to reinforce the importance of online resources and tools. While most activities are straightforward practice exercises, word-building and critical thinking skills are also built in. Wherever possible, material on Complementary and Alternative Medicine (“CAM”) is included to highlight this growing area of medicine. In addition to the text, students will be able to access a wealth of electronic resources to aid their studies. The Student CD-ROM will include a suite of activity-based learning tools: crossword puzzles, “Hangman” game, “Concentration”, term to definition matching, audio feedback, and “That’s Epidemic”, an activity focusing on pathology terms. Exercises are gradable online, or can be used for self-paced review. The Online Learning Center website (“OLC”) will provide a set of additional self-test questions; critical thinking study outlines; web links of interest; and additional word-building activities. An optional Spanish/English audio CD ROM is available, which includes pronunciations of key medical terms in both languages. English-language audio CD ROMs (2) are also available as an optional package item; these include pronunciation of all terms included in the text. Instructors will also find a wealth of teaching & learning resources for their classes: The Instructor’s Manual (“IM”) will contain answers to all exercises, teaching strategy suggestions, and discussion of word-building techniques. The Instructor Productivity Center CD ROM (“IPC”) will contain the IM in electronic form; PowerPoint presentations for each Chapter; and electronic test generator and test banks (with 300 questions).

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MCGRaw-Hill Medical Dictionary for Allied Health
By Myrna Breskin, Chestnut Hill Enterprises, Kevin Dumith, Sanford Brown Institute, Eudis Pearsons and Robert Seeman
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Medical Terminology Word Builder and Communications Workbook with Flashcards
By Nina Thierer, Ivy Tech Comm College of Indiana-Ft Wayne and Kevin Dumith, Sanford Brown Institute
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Medical Terminology - Programmed Approach

New
McGraw-Hill Learnsmart: Medical Terminology
By McGraw-Hill Higher Education Allied Health
2010 (January 2009)
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Features
• Training can be set in two different modes—competency-based or time-based.
• Personal learning planner, based on the pretest, provides individually tailored curricula. This individualized instruction helps students avoid unnecessary practice for terms they already know and better utilizes time for learning.
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NCLEX

HURST REVIEWS: NCLEX-PN REVIEW
By Marlene Hurst
2008 / 736 pages
A Professional Reference Title
Based on Marlene Hurst’s phenomenally popular nursing seminars that train over 30,000 students annually, this innovative review is loaded with the author’s time-tested strategies—all designed to help you pass the NCLEX certification and course exams the first time around! NCLEX-PN Review breaks the mold of other review books by explaining how to apply critical thinking and test-taking skills, rather than how to re-learn course content. Marlene shows you how to effectively work with the “think-on-your-feet” philosophy of the NCLEX-PN, not against it.

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Everything you ever needed to know about NCLEX-PN.
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• What do I have to make on the NCLEX-PN to pass?
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• Activity Statement review.
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  • Don’t select answers based on what you’ve seen in the hospitals!
  • Tips for International students.
  • A day in the life of someone taking the NCLEX-PN.
  • Multiple choice questions verses alternate format questions.
  • Test-taking strategies.
  • How to pass the NCLEX-PN the first time.
  • What’s all the fuss about “Prioritizing” and “Priority” test questions?
  • How do I handle: management and delegation questions; patient-care assignment questions; leadership questions; and staff assignment questions?

HURST REVIEWS: NCLEX-RN REVIEW
By Marlene Hurst
2008 / 620 pages
A Professional Reference Title
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ALLIED HEALTH

McGRAW-HILL REVIEW FOR THE NCLEX-RN EXAMINATION
By Frances D Monahan
2008 / 992 pages
ISBN: 978-0-07-146077-4

A Professional Reference Title

Written by a distinguished educator and nursing text author, this rigorous review for the NCLEX-RN exam reflects the latest changes in the focus of the exam and mimics the exam structure. The author incorporates the new emphasis on client needs throughout the traditional course framework, giving students a unique, step-by-step path toward understanding and applying this key concept.

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Psychosocial Integrity
Mental Health Concepts
Therapy & Intervention
Psychopathology
Pharmacological & Parenteral Therapies
Reduction of Risk Potential
Physiological Adaptation
Problems & Complications

Part III: Taking the Test
Sharpening Your Test Taking Skills
Practice Test for NCLEX-RN

HIPAA

HIPAA FOR ALLIED HEALTH CAREERS
By Cynthia Newby, Chestnut Hill Enterprises, Inc

2009 (February 2008) / 192 pages

**NEW**

HIPAA for Allied Health Careers covers the concepts and knowledge allied health workers need to correctly handle patients’ protected health information (PHI) and to comply with all HIPAA regulations, including: • Administrative Simplification • Privacy Rule • Security Rule • Transactions and Code Sets • Compliance to Avoid Fraud and Abuse Major emphasis is placed on communication skills—written and oral—because they underpin HIPAA compliance in most careers. Such skills include handling requests for release of information (ROI) from patients, payers, and other clinicians; effective interviewing of patients to gather information, complete authorization forms, and explain procedures; and documenting data using tools such as electronic medical records. HIPAA for Allied Health Careers provides students with the must-know information on HIPAA compliance. Titles I (COBRA) and II (HIPAA) are covered. The HIPAA privacy, security, and e-transactions are taught in depth. The concluding chapter presents the recently-published final HIPAA enforcement rule, and also provides an overview of compliance guidelines for the various allied health career settings, such as hospital-, physician practice, and billing-service based careers. Throughout the chapters, students think through case scenarios that cover the types of situations in which allied health personnel will need to make the correct choices for protecting patient privacy under HIPAA.

FEATURES
- Compliance Tips
- FYI boxes
- Internet-based activities
- What Is Your Opinion?
- Internet Resources
- HIPAA Communications

CONTENTS
Chapter 1 The Goal of HIPAA: Administrative Simplification
Chapter 2 The Privacy Rule
Chapter 3 The Security Rule
Chapter 4 Transactions and Code Sets Regulations
Chapter 5 Compliance

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Fundamentals of Nursing

ANATOMY & PHYSIOLOGY REVEALED (ALLIED HEALTH VERSION)
By Medical College Ohio

2009 (September 2008)

Anatomy & Physiology Revealed is the ultimate interactive cadaver dissection experience. This state-of-the-art program uses cadaver photos combined with a layering technique that allows the student to peel away layers of the human body to reveal structures beneath the surface. Anatomy & Physiology Revealed also offers animations, histologic and radiologic imaging, audio pronunciations, and a comprehensive quizzing tool. It can be used as part of any one or two semester undergraduate anatomy & physiology or human anatomy course; Anatomy & Physiology Revealed is available stand-alone, or can be combined with any of McGraw-Hill’s anatomy & physiology textbooks.

FEATURES

- New Organ System Added -- The Integumentary System has been added to the list of organ systems included in this program. All layers of the skin will be included and this new section will also feature histology images and full coverage of the dermis, epidermis, hair shaft, specific glands, etc.
- Expanded Skeletal and Joint Coverage -- The Skeletal System and Muscular System have been separated into each their own system allowing for substantially expanded information to be provided in each. The Skeletal System will now include full coverage of joint dissections. 75 NEW photos of disarticulated bones have been added.
- NEW Histology Section! -- Version 2.0 of Anatomy & Physiology Revealed includes a new button for histology views to support every body system. Students can access this information by clicking on the microscope icon located on the navigation bar.
- NEW! Expanded Quizzing Types and Options -- Physiology animation quizzes have been added to Skeletal, Muscular and Nervous Systems. In addition, the user can now select the number of questions he/she wants included in each quiz (10, 25 or ALL).
- NEW! Navigation and Interface changes!

System selection menu makes it easy to hop between systems.

A new “Smart” (Google-like) search button has been added and integrated across all systems.

Tags are now color coded. All tags pertaining to the given system are one color and reference structures that are not part of that system are another color.

- A recent research study proved that students using APR in the lab performed nearly 2x better than students using traditional methods (lab manual + animal specimens).
- 63% of students in a recent study stated that APR encouraged an active-learning process compared to 31% who said the same about traditional lab.

- 75% of students in a recent study indicated they routinely used APR to study on their own, vs. 29% who used traditional lab materials to study on their own.
- I can see how you might think you have to use cadavers to use this product. It is a common misconception.
- I can understand your concern. Our research has shown that students do use APR when it is incorporated into the lecture and/or lab.
- I am pretty happy with the textbook and media I am using now. Everything is working fine.

CONTENTS

Integumentary System
Skeletal System
Muscular System
Nervous System
Cardiovascular System

SCHAUM’S OUTLINE OF MATHEMATICS FOR NURSES
By Larry Stephens, University of Nebraska
2003
ISBN: 978-0-07-140022-0
A Professional Reference Title

A review of basic arithmetic precedes clear explanations of how nurses need to apply mathematics in modern clinical practice. This study guide teaches an especially easy approach to solving the proportion problems key to converting medication orders and passing nursing licensing exams. The profusion of problems with detailed solutions, and hundreds more with answers, gives students ample opportunities to test their skills as they learn them—leading to quicker mastery.

NURSE MANAGEMENT DEMYSTIFIED
By Irene McEachen and James Keogh
2007 / 252 pages
ISBN: 978-0-07-147241-8
A Professional Reference Title

This new addition to the Demystified series offers practical, easy-to-understand management advice, whether you’re a nursing student, nurse, or another type of medical facility administrator faced with the challenge of managing and motivating a staff.

CONTENTS

Introduction
Chapter 1: The Evolving Healthcare Delivery System
Chapter 2: Nursing Leadership and Management
Chapter 3: Nursing Care Delivery Models and Staffing
Chapter 4: Delegation and Supervision
Chapter 5: Effective Communication and Conflict Resolution
Chapter 6: Policy
Chapter 7: Legal Issues
Chapter 8: Healthcare Economics
Chapter 9: Budget Planning and Financial Management
Chapter 10: Unions, Management, and Employee Relations
Chapter 11: Time Management
Chapter 12: Nursing Informatics and Measurement
Learn how computers and technology affect the nurse’s role in caring for the patient. Now fully updated and enhanced, the fourth edition includes new coverage of PDAs, the impact of HIPAA guidelines, patient safety issues, privacy issues, optimal use of decision support tools, and much more.

CONTENTS

I. COMPUTERS AND NURSING
1. Overview of Computers and Nursing by Virginia Saba & Kathleen McCormick
2. Historical Perspective of Computers and Nursing by Virginia Saba & William Scott Erdely
3. Electronic Health Record from the Davis Award Perspective by Pat Wise

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4. Computer Hardware by Mary McHugh
5. Computer Software & Systems by Mary McHugh
6. Open Source Software by Peter Murray & Alric M O’Connor
7. Data Processing by Ramona Nelson
8. The Internet: A Nursing Resource by Vida B. Svarkas
9. PDA and Wireless Devices by Kathleen Charters & Thomasine D. Guberski

III. ISSUES IN INFORMATICS
11. Nursing Informatics and Health Care Policy by Carol Gassert
12. The Role of Technology in the Medication Use Process by Matthew Grissinger & Hedy Cohen
13. Health Care Data Standards by Joyce Sensmeier
15. Dependable Systems for Quality Care by Dixie B. Baker
16. NMDIS Systems by Connie Delaney

IV. INFORMATICS THEORY
17. Theories, Models, and Frameworks by Carol Bickford & K.M. Hunter
18. Advanced Terminology Systems by Nicholas R. Hardiker & Suzanne Bakken & Amy Coenen
19. Implementing and Upgrading Clinical Information Systems by Marina Douglas & Marian Celi

V. PRACTICE APPLICATIONS
20. Practice Applications by Joyce Johnson & Molly Billingsley
21. Critical Care Applications by Rosemary Kennedy & Ann Dadonna

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Muscular System
Nervous System
Cardiovascular System

Externship for Medical Assisting

McGraw-Hill ACTIVSim: Medical Assisting Clinical Simulator is made up of two parts: six Patient Case Clinical Simulators and 15 Clinical Skills Simulators. The Patient Case Clinical Simulators introduce students to non-acute medical assisting patient case scenarios, procedure simulators and quick e-learning exercises. Six Patient Case Scenarios A large portion of core clinical competencies can be simulated on virtual patients, where the learner can interact with a patient and try out the different tasks that a medical assistant performs in physicians’ offices. The focus of McGraw-Hill ACTIVSim: Medical Assisting Clinical Simulator is on vital signs and obtaining patient data, including a chart feature, so that the learner can collect vital signs and make notes about observations that the medical assistant can brief the doctor about. ACTIVSim provides an excellent opportunity for students to practice their communication and patient interviewing skills prior to their externships and working in a doctor’s office. After each simulation, the learner receives elaborate feedback (debriefing) on their performance. The debriefing includes basic patient assessment issues and recommendations for handling patients who have a particular condition. 15 Clinical Skills Simulators A number of procedures are necessary clinical competencies that a medical assistant needs to master. Some of these are simple step-by-step procedures, while others are more complex procedures requiring different instruments and devices. ACTIVSim Clinical Skills simulators emulate these procedures. The difference between full patient simulators (case scenarios) and skills simulators is that in the latter, you focus on the procedures of the skill, e.g., how to check the blood pressure by following a step by step procedure or how to run
an autoclave. The patient case simulators take you through entire patient encounters.

CONTENTS

Patient Case Simulators
- Chest Pain
- Type 2 Diabetes
- Skin Condition
- Gynecological Patient: PAP Smear
- Child Patient: Diarrhea
- Hypertension

Clinical Skills Simulators
- Blood Pressure
- Handwashing
- Infection Control
- Biohazardous Materials
- Measure Temperature
- Pulse Respiration
- Spirometry
- Electrocardiography (ECG)
- Capillary Puncture
- Venipuncture
- Urine Analysis
- Immunology
- Obtain Throat Culture
- Chemistry
- Sterilize/Autoclave

NEW

MEDICAL ASSISTING REVIEW:
Passing the CMA, RMA, & CCMA Exams with Student CD, 3rd Edition

By Jahangir Moini, Florida Metro University-Melbourne

2009 (January 2008)
ISBN: 978-0-07-330979-8
www.mhhe.com/moini3

Medical Assisting Review: Passing the CMA, RMA, and CCMA Exams, Third Edition provides example questions for students to prepare for certification exams. This reference prepares students to take the exam with easy-to-read essential material summaries that highlight key areas of the major clinical and administrative parts of a Medical Assistant's program. Each of the chapters includes a series of 20 to 30 multiple choice quiz questions and a concise outline of key information. The CD-ROM included free in each book provides more than 1500 sample review questions as well as a PowerPoint presentation for additional student review. The review questions include rationales for answers and correlations to certification competencies. There is also a correlation to the textbook location where the information is covered.

NEW TO THIS EDITION

- New chapter on General Psychology
- Improved Student CD-ROM is easier to use.

CONTENTS

PART I THEORY REVIEW
Section 1 General Medical Assisting Knowledge
Chapter 1 The Profession of Medical Assisting

Chapter 2 Medical Terminology
Chapter 3 Anatomy and Physiology
Chapter 4 Pathophysiology
Chapter 5 Microbiology
Chapter 6 General Psychology
Chapter 7 Nutrition
Chapter 8 Medical Law and Ethics

Section 2 Administrative Medical Assisting Knowledge
Chapter 9 General Office Duties
Chapter 10 Communication in the Medical Office
Chapter 11 Keyboarding and Computer Applications
Chapter 12 Financial Management
Chapter 13 Medical Insurance
Chapter 14 Basic Coding

Section 3 Clinical Medical Assisting Knowledge
Chapter 15 Blood-Borne Pathogens and Principles of Asepsis
Chapter 16 Preparing the Patient
Chapter 17 Vital Signs
Chapter 18 Pharmacology
Chapter 19 Administration of Medication
Chapter 20 Electrocardiography
Chapter 21 Radiography
Chapter 22 Physical Therapy
Chapter 23 Medical Emergencies and First Aid
Chapter 24 Laboratory Procedures

PART II SELF-EVALUATION

Section 1 Test for General Medical Assisting Knowledge
Section 2 Test for Administrative Medical Assisting Knowledge
Section 3 Test for Clinical Medical Assisting Knowledge

Part III SELF-EVALUATION ANSWERS AND RATIONALES

Section 1 General Medical Assisting Knowledge Answers and Rationales
Section 2 Administrative Medical Assisting Knowledge Answers and Rationales
Section 3 Clinical Medical Assisting Knowledge Answers and Rationales

Paediatric First Aid, CPR, AED

NEW

CHILD AND INFANT CPR SKILLS CARD

By National Safety Council NSC

2009 (March 2008) / 8 pages
ISBN: 978-0-07-338293-7

CONTENTS

Check the Victim
Initial Assessment
SAMPLE History Format
Physical Exam
Recovery Position
Child
Allied Health

Infant CPR--Child (ages 1–8)
AED--Child (ages 1–8 or under 55 pounds)
Choking
Responsive Child
Responsive Infant
CPR--Infant (under age 1)
Preventing Injuries
Preventing Choking
Preventing Poisoning
Preventing SIDS

PEDIATRIC FIRST AID, CPR AND AED
2nd Edition
By National Safety Council NSC
2008 (September 2006)

No matter how careful you are, kids get hurt. The National Safety Council can help you handle the usual bumps and bruises, as well as more serious injuries and sudden illnesses. And because no one wants to see children get hurt in the first place, you will get tips on preventing injuries. The NSC’s pediatric emergency care programs were the first to focus specifically on how injuries affect babies and young children. The updated curriculum assures that you are learning the latest emergency care techniques. The program meets first aid and CPR certification requirements for all 50 states and conforms to the latest guidelines for CPR.

CONTENTS
Introduction: Why Learn Injury Prevention and First Aid?
PART ONE: FIRST AID
Chapter 1- Take Action in an Emergency
Chapter 2- Basic Life Support
Chapter 3--Bleeding and Wound Care
Chapter 4--Shock
Chapter 5 – Burns
Chapter 6–Serious Injuries
Chapter 7–Bone, Joint, and Muscle Injuries
Chapter 8–Sudden Illness
Chapter 9 – Poisoning
Chapter 10–Heat and Cold Emergencies
Chapter 11 – Common Minor Childhood Problems and Injuries
Chapter 12 – Child Abuse and Neglect
PART TWO: CHILDHOOD ILLNESSES
Chapter 13 – Common Childhood Illnesses
PART THREE: PREVENTING ILLNESS AND INJURY
Chapter 14 – Preventing Illness and Infection
Chapter 15 – Preventing Injuries
Chapter 16 – Making Places Safe for Children
Index

New

Massage / Reflexology

PRACTICAL REFLEXOLOGY
Interpretation and Techniques
By Susan Watson and Valerie Voner
2009 (February 2008) / 288 pages
ISBN: 978-0-07-351095-8

www.mhhe.com/careercentral

The study and practice of reflexology today requires a text that provides both training and resource material. This book offers practical application and in-depth knowledge that is germane to acquiring proficiency in reflexology. Illustrations were chosen to support the discussion of technique while providing an overall review of how reflexology affects each system including key pathologies within the body systems. The goal was to provide a vehicle that smoothly transports the reader to fulfillment be it as instructor or student.

FEATURES
• A clinically relevant text covering important modalities used by reflexologists and massage therapists.
• Dynamic illustrations and photographs present a realistic view of reflexology to enhance learning.
• Text is a “bench manual” on how to equate specific manipulations to support healing in specific systems or body regions.
• Every chapter opens with Learning Outcomes and Key terms
• Review and Critical Thinking questions.
• Watson provides clear, concise, compact, and appropriate content for coursework or practice.
• Scientific Support boxes are definitive facts collected from professional reflexology case studies or research reports.

CONTENTS
Introduction
Section 1: Basic Principles of Reflexology
Chapter 1: History and Theory of Reflexology
Chapter 2: Introduction to Basic Anatomy
Chapter 3: Anatomy and Pathologies of the Foot
Chapter 4: Anatomy and Pathologies of the Hand
Chapter 5: Mapping of the Feet and Hands Connecting Reflexes with Anatomy
Chapter 6: Positioning and Thumb-walking Techniques
Chapter 7: Relaxing Techniques
Section 2: Body Systems
Chapter 8: Skeletal and Muscular Systems
Chapter 9: Nervous System
Chapter 10: Sense Organs
Chapter 11: Endocrine System
Chapter 12: Circulatory System
Chapter 13: Lymphatic System
Chapter 14: Respiratory System
Chapter 15: Digestive System

234
Nursing Spectrum Drug Handbook delivers what nurses from around the world said they wanted most in such a publication: easy-of-use and a strong focus on patient safety. As convenient as it is thorough, the handbook enables nurses to carry essential drug information around with them wherever they go. The Drugs A-Z section features alphabetized coverage of 3,000 brand name and 1,000 generic drugs detailing each drug’s mechanism of action, indications, dosage, contraindications, and includes intervention, patient monitoring, and patient teaching.

CONTENTS
Foreword
Preface and User’s Guide
Drugs A-Z
Safe Drug Administration
Photogallery of Common Tablets and Capsules
Drug Classes
Vitamins and Minerals
Herbs and Supplements
Appendices

Math for the Pharmacy Technician
By Lynn Egler, Dorsey Business School and Kathryn A. Booth, Total Care Programming

Recognizing the enormous need for well-trained Pharmacy Technicians as well as the serious need to decrease medication errors, Math for Pharmacy Technicians: Concepts and Calculations was developed. This textbook is organized from simple to complex and walks the student through the necessary information to pass the math portion of the PTCB exam. The text includes Pharmacy Technician-specific information that is non-threatening and helps the student learn to safely practice as a Pharmacy Technician. This text is organized into 11 chapters, along with a pretest and a comprehensive evaluation or posttest.
Interactive classroom games. Instructors will also find resources at CD-ROM includes EZ Test test generator, PowerPoint slides, and problems presented in the textbook and Lab Manual. An Instructor in the classroom as well as independent and distance learning. The text is well-illustrated and contains forms similar to the authentic forms the Pharmacy Tech will use in the field. This strong visual component enhances the text’s instruction and the student’s understanding of content covered.

FEATURES

- Customer Service and Communication: The Pharmacy Technician must interact with the public, peers, pharmacists and other professionals. This requires valuable interpersonal and communications skills. In today’s automated and competitive world, the need for genuine customer service is mandatory. At Your Service scenarios in Pharmacy Technician: Practice and Procedures focuses on application of customer service and communication by providing real-life situational information and questions for students to review and practice. Students learn not just how to prepare the medication but to properly communicate with the customers and others.

- Critical Thinking and Problem Solving: Critical thinking and problem solving strategies are included throughout the text. It is not enough to present the information, Pharmacy Technician: Practice and Procedures reinforces the concept of critical thinking through “What should you do?” situational questions. Helping students apply knowledge concepts and determine how to handle situations relative to content is an integral part of the textbook.

- Case Study features open each chapter with a scenario to introduce students to a situation which may occur while working in a pharmacy. They will improve students’ critical-thinking skills and provide discussion opportunities in the classroom.

- Tech Check boxes provide reinforcement of key points in each section of the chapter as well as an immediate check of students’ understanding of content covered.

- Caution boxes draw attention to mistakes that can occur within pharmacy practice.

- The text is well-illustrated and contains forms similar to the authentic forms the Pharmacy Tech will use in the field. This strong visual component enhances the text’s instruction and the student’s grasp of the material.

- The CD-ROM included in each student text provides reinforcement of the text materials, and adds a strong visual element to the package.

- Laboratory Applications Manual provides not only typical workbook-style study questions but also provides laboratory practice sheets for the required skills of the Pharmacy Technician. The Laboratory Applications Manual promotes hands-on training. It corresponds and expands upon the Pharmacy Technician: Practice and Procedures textbook.

- An Online Learning Center provides further resources for both instructors and students.

- A comprehensive Instructor’s Manual provides answers to problems presented in the textbook and Lab Manual. An Instructor CD-ROM includes EZ Test test generator, PowerPoint slides, and interactive classroom games. Instructors will also find resources at the Online Learning Center, and can readily gauge their students’ progress through activities here.

CONTENTS

Unit 1: The Pharmacy Technician
Chapter 1: Overview, Practice Settings and Organizations
Chapter 2: Basic Safety and Standards
Chapter 3: Communications and Customer Service
Chapter 4: Law and Ethics

Unit 2: Pharmacology and Medications
Chapter 5: Measurements and Calculations
Chapter 6: Introduction to Pharmacology
Chapter 7: Classifications of Drugs
Chapter 8: Over the Counter Agents
Chapter 9: Over-the-Counter Alternatives

Unit 3: Medication Management and Preparation
Chapter 10: Dosage Forms, Abbreviations, and Routes of Administration
Chapter 11: Extemporaneous Compounding and IV Admixtures
Chapter 12: Medication Errors
Chapter 13: Referencing

Unit 4: Practice Settings
Chapter 14: Retail Setting
Chapter 15: Hospital Setting
Chapter 16: Other Environments
Chapter 17: Inventory Management

Unit 5: Transition From Student to Technician
Chapter 18: Preparing for Your Career as a Pharmacy Technician
Chapter 19: Career Development

Phlebotomy

New

Phlebotomy for Health Care Personnel with Student CD-ROM
2nd Edition

By Kathryn A Booth, Total Care Programming and Antonio C Wallace, Advanced Career Training

2009 (January 2008)
ISBN: 978-0-07-330977-4

www.mhhe.com/healthcareskills

Phlebotomy for Health Care Personnel, Second has been updated to include the CLSI standards and OSHA regulations. The text is now four-color and includes all new photographs and illustrations. It includes information about customer service and phlebotomy procedures in multiple health care environments or situations in addition to the traditional clinic setting. Emphasis is made on regulatory agencies, standards, and certification. Quality control and reporting/treatment procedures for accidental injuries are addressed in the text. Patient education and troubleshooting techniques are prominent features of the text. The instruction in the text is directly linked to the CD-ROM included in the text to reinforce skills and techniques. The can be used in the classroom as well as independent and distance learning.
NEW TO THIS EDITION

- NEW! Text is now 4-color.
- Updated information added about waived office procedures.
- Added information on safety needles.
- The updated Student CD-ROM provides video, audio, and illustrations with interactive exercises to bring the competencies presented in the text to life. Key terms are defined and pronounced correctly. Practicing Law & Ethics, Providing Safety and Infection Control, Patient Education and Communication, and Troubleshooting Activities include critical-thinking questions. There are also drag-and-drop exercises in each chapter to reinforce the student’s knowledge of anatomy, supplies, and equipment discussed in the text. Interactive Questions provide additional review and suggest areas for improvement. The CD-ROM can be used for traditional, hybrid, and distance learning courses. CD has plenty of practice activities with various strips.
- Troubleshooting features identify problems which may arise for the phlebotomist and provide suggested solutions. These help promote critical thinking and prepare students for real life situations.
- Safety and Infection Control features provide tips and techniques to provide safe care to patients and prevent the spread of infection.
- Patient Education and Communication provides suggestions for communicating effectively, both orally and in writing, and provides for patient education related to Phlebotomy.
- Law and Ethics features provide information about HIPAA, legal responsibilities, limitations, and implications, as well as performing duties within established ethical practices.
- Critical Thinking and Interactive Questions provide review and suggest areas for improvement.

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Chapter I Introduction to Phlebotomy
Chapter II Blood, Function, and Circulation Composition
Chapter III Equipment for Specimen Collection
Chapter IV Performing Venipuncture and Dermal Puncture
Chapter V Specimen Handling and Processing
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Respiratory Care

FISHMAN'S PULMONARY DISEASES AND DISORDERS
4th Edition

By Alfred P Fishman, University of Pennsylvania, Jack A Elias, Yale School of Medicine, Joe A Fishman, Massachusetts General Hospital, Michael A Grippi, University of Pennsylvania, Robert M Senior, Washington University Medical Center and Allan I Pack, University of Pennsylvania

2008 / 2948 pages


A Professional Reference Title

First published in 1980, Fishman’s Pulmonary Diseases and Disorders is the classic reference through which pulmonary physicians have gained a commanding look at the diagnosis and treatment of pulmonary diseases and disorders. Edited by the world’s foremost authorities, Fishman’s Pulmonary Diseases and Disorders covers exactly what you need to know about lung diseases and their management, including sleep-disordered breathing, COPD, emphysema, and lung cancer, as well as new technological advances and imaging techniques. This unparalleled two-volume resource begins with a compelling overview of up-to-date clinical perspectives, along with the scientific basis of lung function in health and disease. It then provides turnkey information on everything from respiratory disease signs and symptoms, to obstructive lung diseases, occupational and environmental disorders, and specific respiratory conditions such as infectious diseases of the lungs and acute respiratory failure.

CONTENTS

PART I, PERSPECTIVES
PART II, SCIENTIFIC BASIS OF LUNG FUNCTION IN HEALTH AND DISEASE
Section One. Architecture for Normal Lung Function
Section Two. Physiological Principles of Normal Lung Function
Section Three. The Lungs in Different Physiological States
Section Four. Lung Immunology
Section Five. Lung Injury and Repair
PART III, SYMPTOMS AND SIGNS OF RESPIRATORY DISEASE
Section Six. Clinical Approach to the Patient
Section Seven. Diagnostic Procedures
PART IV, OBSTRUCTIVE LUNG DISEASES
Section Eight. Chronic Obstructive Pulmonary Disease
Section Nine: Asthma
Section Ten: Other Obstructive Disorders
PART V, OCCUPATIONAL AND ENVIRONMENTAL DISORDERS
Section Eleven: Occupational and Environmental Disorders
Section Twelve. Environmental Disorders
PART VI, DRUG-INDUCED LUNG DISEASES
PART VII, INTERSTITIAL AND INFLAMMATORY LUNG DISEASES
Section Thirteen. Immunologic and Interstitial Diseases
Section Fourteen. Depositional and Infiltrative Disorders
PART VIII, ALVEOLAR DISEASES
Part Nine DISORDERS OF THE PULMONARY CIRCULATION
Part Ten DISORDERS OF THE PLEURAL SPACE
Part Eleven DISASES OF THE MEDIASTINUM
Part Twelve DISORDERS OF THE CHEST WALL, DIAPHRAGM, AND SPINE
Part Thirteen SLEEP AND SLEEP DISORDERS
Part Fourteen SURGICAL ASPECTS OF PULMONARY MEDICINE
Section Fifteen: Cancer of the Lungs
Section Sixteen: Lymphoproliferative Disorders
Section Seventeen: General Issues
Section Eighteen Pulmonary Infectious Syndromes
Section Nineteen Special Hosts and Opportunistic Infections
Section Twenty Specific Microorganisms
Section 21 Mycobacterial Infections
Part Sixteen INFECTIOUS DISEASES OF THE LUNGS
Part Seventeen ACUTE RESPIRATORY FAILURE
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**HOMELAND SECURITY AND EMERGENCY MEDICAL RESPONSE**  
*By John Campbell*  
2008 (March 2007) / 352 pages  
ISBN: 978-0-07-304437-8

Homeland Security and Emergency Response is a first edition product for McGraw-Hill Higher Education. The book and its ancillaries are being developed and designed to meet the needs of a 16 hour course by the same name. If focuses on providing information on recognizing threats, acting on threats, and providing patient care as well as the communication that must occur when a threat to homeland security occurs. Threats covered include Biological, Nuclear, Chemical, Incendiary and Explosive threats. Additional information on Clandestine Drug Laboratories is also covered. The information is easy-to-read and step-by-step procedures for using related equipment and skills are included. The primary market for this product suite and course include those in emergency medical services (paramedics, EMT-Basics, First Responders), police, and those in fire.

**CONTENTS**

- Introduction
- Chapter 1. Recognition and Emergency Medical Response
- Chapter 2. Chemical Agents used in Terrorist Attacks
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- Chapter 5. Radiological or Nuclear Incidents
- Chapter 6. Incendiaries and Explosives
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**Appendix: Acronyms**

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**FIRST RESPONDER WITH SKILLS DVD, BLS DVD & FIRST RESPONDER POCKET GUIDE**  
*By National Safety Council NSC*  
2008  
ISBN: 978-0-07-352196-1 (Workbook)

The new First Responder: Skills in Action program is the most authoritative teaching and learning program available. This new resource gives students the knowledge, skills, and confidence they need to care for victims of sudden illness and accidents. Students will see clearly how to function when no specialized equipment is available and how to perform as key assistants to the emergency medical technician or paramedic who arrives on the scene.

**CONTENTS**

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  12. Bleeding and Shock  
  13. Soft Tissue Injuries  
  14. Injuries to Muscles and Bones  
  15. Injuries to the Head and Spine
- UNIT SIX: Childbirth and Children  
  16. Childbirth
EMTs are often the first licensed EMS personnel to arrive on the scene of an emergency, size up the situation, and provide emergency care and transportation. They practice in a wide diversity of settings—EMTs are everywhere in our community, many of them performing their EMT duties as well as their regular jobs. These providers demonstrate pride and dedication in their role on the frontline of emergency care in this country. Barbara Aehlert wrote this text with great depth and clarity. Her easy-to-read writing style conveys a wealth of information that is essential for the student to grasp key concepts needed to become a competent EMT. Students who use this book can feel confident that they have learned accurate, up-to-date, and complete information so that they can face emergencies and provide essential emergency care in their practice setting, whatever the emergency is and wherever it occurs.

FEATURES

❖ EMT Pocket Guide

Packaged with every new book, this portable and essential information Emergency Medical Technicians need to provide initial emergency medical care in the field.

❖ Divisions

The text is organized according to the Emergency Medical Technician National Standard Curriculum published by the U.S. Department of Transportation (DOT) and the National Highway Traffic Safety Administration (NHTSA).

❖ Objectives

Each chapter includes the knowledge, attitude, and skill objectives established by the DOT curriculum for the subject matter.

❖ Think About It

Questions related to the case study that readers should think about as they read each chapter or appendix.

❖ Key Terms

Bolded within the text so that readers can review their meaning within the Glossary.
NEW

BLS REVIEW+ DVD
By Delve Productions Inc

2009 (May 2008)

An EMT student needs a review product that contains both testable certification skills and the ability to test and assess the didactic course material. BLS Review combines both skills and a didactic review of essential EMT material in a DVD and CD-ROM format. It can be used by a student studying for their written and practical exam or by an instructor for classroom teaching of the skills.

FEATURES
- The DVD includes videos which provide review of steps and procedures of testable skill plus a didactic review.
- Passing the EMT course and National Registry written and practical skills examinations will be stressed.
- DVD skills performed according to national standards.
- Well-known and proven development team.

CONTENTS
1. Introduction to Emergency Medical Care
2. The Well Being of the EMT
3. Legal and Ethical Issues
4. The Human Body
5. Baseline Vital Signs and SAMPLE History
6. Lifting and Moving Patients
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18. Environmental Emergencies
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25. Injuries to the Chest and Abdomen
26. Infant and Child Emergency Care
27. Emergency Vehicle Operations
28. Gaining Access
29. Special Response Situations
30. Advanced Airway Techniques

International Edition

McGRAW-HILL EMT-BASIC
By Peter A DiPrima, Jr and George P Benedetto, Jr
2008 / 400 pages
ISBN: 978-0-07-149679-7
A Professional Reference Title

If you want to succeed on the EMT-Basic exam, there’s no better resource than McGraw-Hill’s EMT-Basic. This indispensable guide helps you think through pre-hospital medicine while covering all the essential information that will give you the edge on exam day. Each chapter begins with a clinical scenario, followed by a bulleted overview of key topics and retention-enhancing Q&As. You’ll even get an online practice exam to simulate the test-taking experience. Look inside, and you’ll see that McGraw-Hill’s EMT-Basic has everything you need to boost your confidence—and your score.

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Main Headings--
Exam Preparation Tips
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Section 5: Trauma
Section 6: Pediatric Patients
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Website: www.mheducation.asia
Ever since the first EMT book was written, there have been two philosophies chosen by the authors for the reader: One type is to provide for the minimal required information and to meet only the minimum standards required by the profession. At the other end of the spectrum is the philosophy that is written to be all-inclusive. This will give the student reader (and ultimately patient care provider) the strongest knowledge possible. If you or your family were to become sick or injured in the middle of the night, in the blowing snow or in the cold rain, do you want the EMT taking care of you to be the very best they possibly could be or simply one who has taken the course to “get by”? This book is not a “get by” book. This book is not written by “get by” authors. This book is not edited by “get by” editors. Just open this book and look at the four editors—four better people in the United States to write such a book could not have been chosen.

FEATURES

- In the age of evidence-based medicine, it is important that a text be referenced to the science that supports the knowledge and standards of practice within the field. Throughout the text, when a statement of fact is made, you’ll find the science to support the statement in the notes at the end of each chapter.
- DOT objectives are listed at points in the text where they are covered.
- Each chapter begins with Need to Know Objectives. These are things every Paramedic should know that will described in the chapter.
- The experience of this author team bring you “Nice to Know”. These are pieces of information that enhance the material being studied and the patient interactions.
- “Connection Boxes” throughout the text direct the reader to related information in other chapters.
- When applicable, the reader will find do/ask tables at the beginning of a chapter. These will guide readers through actions and questions appropriate to the patients the chapter will describe.

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THE PARAMEDIC COMPANION: A CASE-BASED WORKTEXT

By Arthur Hsieh and Kevin Boone

2009 (January 2008)
ISBN: 978-0-07-320532-8 (With Student CD)

Website: http://www.mhhe.com/chapleau1e

The Paramedic Manual is not a traditional workbook in that it goes beyond the simple “review and test” approach of most workbooks. Instead, this manual supports the students’ exploration of the art and science of prehospital medicine by providing a rich palette of learning tools, images, and even video to better explain concepts and techniques. The Paramedic Manual speaks clearly and directly to the paramedic student. The material in each chapter revolves around “Need To Know” (NTK) objectives; those that the authors of both the Textbook and Manual felt were absolutely necessary for the paramedic student to master before moving on to the next section or chapter. All features in the Manual were designed to ensure that learners can successfully master these NTK objectives. Multimedia tools on the accompanying DVD create an educational space that is rich with information.

FEATURES

- Skills—This section presents Step-by-Steps, illustrated instructions for performing key skills. Accompany skill sheets for these and additional skills are provided in the back of the book.
- Ample vignettes and progressive case studies, followed by critical thinking questions (answers at the end of each chapter), effectively review basic concepts, encourage students to build on and apply new information, and require the learner integrate what he or she has been learning into real-world practice.
- Problem-Based Learning (PBL) cases – These unique cases are designed to be challenging and open-ended—just like many EMS patients. The learner must work his or her way through the case, using not just the manual and textbook, but often other resources that must be found and researched. In the process, the student will learn about the process of learning itself.
- Activities—Self-directed, student-centered activities provide alternative methods for mastering the chapters’ main concepts. Many are designed for use with partners and small groups.
- The student CD that accompanies the manual provides skills – Step-by-Steps in a PowerPoint format that show skills being correctly performed using Quicktime video. Text “bubbles” and arrows point to key aspects of skill performance.

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HOMELAND SECURITY AND EMERGENCY MEDICAL RESPONSE
By John Campbell
2008 (March 2007) / 352 pages
ISBN: 978-0-07-304437-8

Homeland Security and Emergency Response is a first edition product for McGraw-Hill Higher Education. The book and its ancillaries are being developed and designed to meet the needs of a 16 hour course by the same name. It focuses on providing information on recognizing threats, acting on threats, and providing patient care as well as the communication that must occur when a threat to homeland security occurs. Threats covered include Biological, Nuclear, Chemical, Incendiary and Explosive threats. Additional information on Clandestine Drug Laboratories is also covered. The information is easy-to-read and step-by-step procedures for using related equipment and skills are included. The primary market for this product suite and course include those in emergency medical services (paramedics, EMT-Basics, First Responders), police, and those in fire.

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Skills Chapter 7. Scenario Review
Appendix: Acronyms

PARAMEDIC REVIEW DVD AND CD-ROM
By Delve Productions, Inc
2008 (January 2007)

A paramedic student needs a review product that contains both all testable certification skills and the ability to test and assess the didactic course material. Paramedic Plus Review combines both skills (all ALS skills) and a didactic review of all paramedic material in a DVD and CD-ROM format. It can be used by a student studying for their written and practical exam or by an instructor for classroom teaching of the skills.

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Patient Assessment
Bleeding and Soft Tissue Injuries
Injuries to Muscles and Bones
Child Birth
Neonatology
Infants and Children
Geriatrics
Abuse & Assault
Pharmacology
Venous Access/Meds
Advanced Airway Techniques
EMS Operations
Assessment Based Management

NEW

CLINICIAN’S POCKET DRUG REFERENCE
By Leonard G Gomella, Thomas Jefferson University, Steven A Haist, University of Kentucky and Aimee G Adams
2009 (March 2009) / 288 pages
ISBN: 978-0-07-160280-8

A Professional Reference Title

Proving that sometimes less can deliver more, this super-concise guide covers more than 1000 commonly used medications. Organized alphabetically by generic drug name, this trusted reference distills need-to-know information such as selection and administration, mechanisms of action, dosage, cautions, contraindications, and side effects.

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If you want to score high on the EMT-Paramedic exam, you’ll want McGraw-Hill’s EMT-Paramedic. This essential guide helps you think through pre-hospital medicine while covering the most commonly tested information. Each chapter begins with a clinical scenario, followed by a bulleted overview of key topics. You’ll also find a 180-question practice exam included in the book as well as online to simulate the test-taking experience. More than any other guide, McGraw-Hill’s EMT-Paramedic boosts your confidence--and your chances for success.

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Explosive and Incendiary Devices
Bibliography

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Website: www.mheducation.asia
ACLS/Advanced Cardiac Life Support

ACLS BASICS AND MORE WITH STUDENT CD & DVD
By Kim McKenna
2008 (May 2007) / 224 pages
ISBN: 978-0-07-301971-0

ACLS-Basics and More contains the “Cliff Notes” of the ACLS Provider Course, as well as essential info from the advanced resuscitation course. The textbook provides 60 illustrations, including approximately 20 rhythm strips for essential review. It also features 19 essential treatment algorithms. Appendices include a comprehensive medications table and a listing of common ACLS abbreviations. For each medication within the appendix, the following information is provided: action, uses, adult dose, common side-effects, and notes. In addition, within the medications table, ACLS medications and medication details for the experienced provider are italicized. The textbook is packaged with a DVD that provides the most common scenarios the end-user may encounter in the field. It is also packaged with a CD that contains multiple-choice, self-test questions with answer key and rationales. Authored by a knowledgeable ACLS provider and DVD experts.

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SAFE FIREFIGHTING LEVELS I & II
By Steve Kidd and John Czajkowski of Delve Productions Inc, Garry Briese, International Association of Fire Chiefs
2008 (May 2007)
ISBN: 978-0-07-335316-6 (with Student DVD’s & iPod DVD)
http://www.mhhe.com/safefirefighter

The writers of Safe Firefighting, Steve Kidd, John Czajkowski, and Garry Briese have decades of dirty, hands-on fire and rescue experience. They understood the need for a “new approach” in training firefighters, one way off the “traditional” scale, and they did something about it. Why this book? Because this book is different. It helps us focus on what really matters—and what is just not that important. Make no mistake about it—this book was written 100% outside the box. This is what matters: Identifying the fire “problem” on the scene, getting water on the fire, venting, staffing, protecting ourselves first, arriving in one piece, having applicable building construction info, understanding and applying “go in/don’t go in,” and having competent command officers. What doesn’t matter: How a smoke detector works and what the inside of a hydrant looks like. This can be important info and may be worthwhile to know, but this info won’t save your life as a firefighter.

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CATASTROPHE PREPARATION & PREVENTION FOR FIRE SERVICE PROFESSIONALS WITH STUDENT DVD

By Phil Palin, Telelogic Learning Company

2008 (October 2007)
ISBN: 978-0-07-724055-4

Catastrophe Preparation and Prevention for Fire Service Professionals is a multi-media product for Homeland Security designed for fire service personnel. It features a full color, 160 page, spiral-bound worktext that contains a link to an online simulation game called “San Luis Rey” and a CD-ROM containing selected government documents and excerpts from McGraw-Hill texts. Instructors can use the wealth of material in the CD-ROM to adjust the length of the course. It can be taught in a single day or two-day course or expanded into a full semester. The worktext guides the student through the material and links the learning experience from the different formats. During the course, learners participate in an online simulation game where they will have to detect and prevent a terrorist attack. Failure has dire consequences for them and the fictional jurisdiction of San Luis Rey. The game challenges learners to move beyond response-oriented training and think about what it takes to prevent a terrorist attack.

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McGRAW-HILL’S FIREFIGHTING EXAMS

By Ronald R Spadafora

2008 / 418 pages
ISBN: 978-0-07-147769-7

A Professional Reference Title

Chief Ronald Spadafora of the New York City Fire Department has created this test prep guide and career handbook to give you the very latest information about firefighter testing and employment. With three decades of experience in the fire service, Chief Spadafora is uniquely qualified to lead you through every step of the recruiting process. This all-in-one resource will give you the edge to do your best on the day of the exam and throughout your firefighting career.

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