FIFTH EDITION

Understanding Psychology Essentials of Understanding

Robert S. Feldman

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fifth edition

Essentials of Understanding Psychology

Robert S. Feldman

University of Massachusetts—Amherst



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ESSENTIALS OF UNDERSTANDING PSYCHOLOGY FIFTH EDITION

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Developmental editor: Cheri Dellelo Senior marketing manager: Chris Hall

Project manager: Vicki Krug

Production supervisor: Enboge Chong

Coordinator of freelance design: Michelle D. Whitaker

Cover/interior designer: Christopher Reese

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Preface

Estella Ramirez gained a better understanding of her mother's lifelong battle with major depression after learning about its possible causes in her introductory psychology course. She also developed a new appreciation for the struggles her mother faced in coping with this disorder.

+ + +

As a new father, Phil Westport realized that he didn't know very much about infants, including his own daughter. He decided to take introductory psychology in part to learn more about child development. Applying what he learned in the course, Phil gained new insights into his daughter's behavior and more confidence in his ability to be a good parent.

* *

Although he enrolled in introductory psychology because it was the only class that fit conveniently into his schedule, Jacob Rakovitch found himself increasingly interested in the subject matter. He became fascinated by the relationship between the brain and behavior, and by the end of the term he was seriously thinking about majoring in psychology.

* *

Joanne Chu is planning to become a special education teacher after graduating from college. Her aspirations have been fueled by studying how people learn and how psychologists explain variations in intelligence in her introductory psychology course.

Psychology speaks with many voices to the diversity of students that we teach, offering a personal message to each one. To some, the discipline is a vehicle that can provide a better understanding of others' behavior; for others it is a pathway to self-understanding. To some, psychology offers the potential of a future career; others are drawn to psychology because it gives them an opportunity for intellectual discovery.

Essentials of Understanding Psychology, fifth edition, is designed to present the discipline of psychology in a way that engages and excites students about the field of psychology—no matter what led them to take the introductory course or what level of motivation they initially bring to the course. It is designed to draw them into its way of looking at the world and to inform their understanding of psychological issues. The book provides a broad introduction to the essentials of the field of psychology, covering basic theories and research findings, as well as highlighting current applications outside the laboratory.

In revising Essentials of Understanding Psychology, I had four major goals:

- 1. To provide broad coverage of the field of psychology, introducing the theories, research, and applications that constitute the discipline.
- 2. To impel readers to think critically about psychological phenomena, particularly those that have an impact on their everyday lives.
- 3. To illustrate the substantial diversity both within the field of psychology and in society as a whole by presenting material that reflects the discipline's increasing concern with cultural, gender, racial, and ethnic issues.
- 4. To arouse intellectual curiosity and build an appreciation of how psychology can increase students' understanding of the world around them.

In short, Essentials of Understanding Psychology is meant not only to expose readers to the content—and promise—of psychology, but also to do so in a way that will bring

to life basic concepts and research findings, and sustain interest in the discipline long after they have completed their first encounter with the field.

The Scope and Structure of Essentials of Understanding Psychology

Essentials of Understanding Psychology is based on the sixth edition of Understanding Psychology, a broad and comprehensive introduction to the field of psychology. Like the book from which it is derived, Essentials of Understanding Psychology includes coverage of the traditional topical areas of psychology—such as the biological foundations of behavior, sensation and perception, learning, cognition, development, personality, abnormal behavior, and the social psychological foundations of behavior.

Unlike its predecessor, however, *Essentials of Understanding Psychology* is a briefer, 14-chapter volume. It focuses on the essence of psychology, providing a broad introduction to the field. The book also shows how the field's theories and research have an impact on readers' everyday lives by emphasizing the applications of psychology.

The flexibility of the book's organizational structure, a hallmark of this text, is considerable. Each chapter is divided into three or four manageable, self-contained units, allowing instructors to choose and omit sections in accordance with their syllabus.

Building on its strong tradition of facilitating student learning, the fifth edition of *Essentials of Understanding Psychology* contains several new and improved features:

- The option of using a systematic study strategy built into the book—the P.O.W.E.R. Learning system. The new edition of Essentials of Understanding Psychology provides students with the option of using P.O.W.E.R. Learning, a systematic approach to learning and studying based on five key steps (Prepare, Organize, Work, Evaluate, and Rethink). Based on empirical research, P.O.W.E.R. Learning systematizes the acquisition of new material by providing a learning framework. The system stresses the importance of learning objectives, self-evaluation, and critical thinking. The elements of the P.O.W.E.R. Learning can also be used in conjunction with other learning systems, such as SO3R. (A more detailed description of the use of the P.O.W.E.R. Learning system follows in the Student Guide section of the Preface.)
- Fine-tuning of definitions. Definitions of key terms and concepts introduced in the text, which appear in the margins and in the end-of-book glossary, have been revised and made more precise.
- Inclusion of additional thought-provoking examples. Great care has been taken to select relevant and high-interest examples that motivate students to read as well as to explain key concepts.
- Addition of Web-based exercises. New to this edition, every chapter includes several exercises that require students to use the World Wide Web to identify and research information related to psychology.
- Addressing diverse student learning styles. Our prepublication research revealed
 that an increasing number of instructors find that the presentation of material in
 multiple modalities facilitates student mastery of material. Consequently, this edition
 includes several features that speak to the diverse learning styles of students. For
 example, there are more, and improved, figures. Each figure has been drawn to
 maximize clarity and pedagogical value, and many include annotations that draw
 attention to major points in the illustrations. Furthermore, there are additional
 photos, with captions that directly support learning. Photos have been carefully
 chosen to support the learning of key concepts, as well as for their visual impact.
 Captions have been improved and expanded, and many now include questions
 designed to promote critical thinking.

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This edition incorporates a significant amount of new and updated information, reflecting the advances in the field and the suggestions of reviewers. *Overall, more than a thousand new citations have been added, with most of those from articles and books published within the last three years.*

For instance, advances in such areas as evolutionary perspectives, brain and behavior, mapping the human genome, cognition, emotions, and cultural approaches to psychological phenomena receive expanded and new coverage. In addition to the extensive updating, a broad range of new topics have been incorporated. The following sample of new and revised topics featured in this edition provides a good indication of the currency of the revision:

- Evolutionary perspectives (Chapter 1)
- The Human Genome Project and behavioral genetics (Chapter 2)
- Cochlear implants (Chapter 3)
- PET scan data and psychoanalytic explanations of dreaming (Chapter 4)
- "Date rape" drugs (Chapter 4)
- Effects of violent video games (Chapter 5)
- Spreading activation and associative memory models (Chapter 6)
- Being too smart for a job (Chapter 7)
- Intrinsic motivation (Chapter 8)

- Gene therapy (Chapter 9)
- Teratogens (Chapter 9)
- Estrogen replacement therapy (Chapter 9)
- Self-efficacy (Chapter 10)
- Well-being and happiness (Chapter 11)
- Depression and ADHD (Chapter 12)
- Virtual therapy and St. John's wort (Chapter 13)
- Industrial/organizational psychology (Chapter 14)
- Psychographics (Chapter 14)

Despite the extensive changes in this edition of *Essentials of Understanding Psychology*, one constant remains: the basic student-friendliness of the text. *Essentials of Understanding Psychology*, fifth edition, remains a textbook devoted to student success. In aiding students' efforts to master the body of material that the field of psychology encompasses, the book is designed to nurture students' excitement about psychology and keep that excitement alive throughout their lives.

The Learning Features of Essentials of Understanding Psychology

Essentials of Understanding Psychology, fifth edition, contains many features designed to help students learn, study, and master the text's content. These include the following:

- Prologue. Each chapter starts with an account of a real-life situation that
 demonstrates the relevance of basic principles and concepts of psychology to
 pertinent issues and problems. These prologues depict well-known people and
 events, such as the terrorist attack on the World Trade Center in New York, Michael
 J. Fox's fight against Parkinson's disease, and Lance Armstrong's motivation to win
 in the Tour de France.
- Looking Ahead. These sections follow each *Prologue*, expressing the key themes and issues discussed within the chapter.
- Prepare and Organize. Each major section of the chapter incorporates the first two
 steps of the optional P.O.W.E.R. Learning system: Prepare and Organize. The Prepare
 section includes several broad question's designed to orient students to the major
 topics of the chapter. The Organize section provides an outline of the material.
 Together, they offer a framework for conceptualizing and organizing the material
 that follows.
- Applying Psychology in the 21st Century. These boxes—which highlight the
 relevance of psychology—illustrate applications of current psychological theory and
 research findings to real-world problems, focusing on current advances and future

- possibilities. For example, these discussions explore such topics as the use of brain waves to command computers, the consequences of playing violent video games on actual aggressive behavior, cloning and gene therapy, and Internet addiction.
- Psychology at Work. These interviews provide biographical sketches of people
 working in professions that make use of the findings of psychology. Some of the
 individuals profiled are psychologists, some work in other fields; all of them draw
 on psychological principles on a daily basis. For example, there are interviews with a
 preschool teacher, a psychologist who works for the Secret Service evaluating
 threats against the president of the United States, and an advertising executive.
- Exploring Diversity. In addition to a substantial amount of material relevant to
 diversity integrated throughout the text, every chapter also includes a special
 section devoted to an aspect of racial, ethnic, gender, or cultural diversity. These
 sections highlight how psychology informs (and is informed by) issues relating to
 the increasing multiculturalism of our global society. The Exploring Diversity topics
 include cross-cultural differences in memory, cultural perspectives on female
 circumcision, and the use of race to establish test norms.
- **PsychLinks.** *PsychLinks* are marginal icons providing brief descriptions and Web addresses of relevant websites. Each *PsychLink* has a corresponding hot-link on the *Essentials of Understanding Psychology* website at http://www.mhhe.com/feldmaness5.
- Becoming an Informed Consumer of Psychology. Each chapter includes material
 designed to make readers more informed consumers of psychological information by
 giving them the ability to evaluate critically what the field of psychology offers.
 These discussions also provide sound, useful guidance concerning common problems.
 For example, these unique sections discuss such topics as how to assess research
 claims, identify drug and alcohol problems, lose weight successfully, assess
 personality assessments, and choose a therapist.
- Evaluate and Rethink. Every major chapter section concludes with an Evaluate and
 Rethink section as part of the P.O.W.E.R. Learning system. The Evaluate sections test
 recall of the material, assessing the degree of initial learning. The Rethink sections
 provide thought-provoking questions designed to provoke critical thinking about the
 material.
- Running Glossary. Key terms are highlighted in boldface type within the text where
 they are introduced and are defined in the margin of the page, with pronunciation
 guides for difficult words. There is also an end-of-book glossary.
- Looking Back. To facilitate both review and synthesis of the information covered, a number of end-of-chapter features reinforce student learning. First, a chapter summary emphasizes the key points of the chapter and is organized according to the *Prepare* questions posed at the beginning of every major section. Second, a list of *Key Terms and Concepts*, including the page numbers where they are introduced, encourages student review. Third, *Psychology on the Web* takes students online to analyze psychological issues relevant to the chapter content. Fourth, the *OLC Preview* suggests that students visit the book website for self quizzes, activities, and additional information.
- Epilogue. Each chapter ends with an *Epilogue* that incorporates critical thinking questions relating to the *Prologue* at the opening of the chapter. These thought-provoking questions provide a way to tie the chapter together and illustrate how the concepts addressed in the chapter apply to the real-world situation described in the *Prologue*.

Supplements Package

FOR THE INSTRUCTOR

Instructor's Manual (ISBN 0-07-249427-1)

By Saundra K. Ciccarelli, Gulf Coast Community College, Florida

This thoroughly revised manual provides instructors of introductory psychology with all the tools and resources they need to present and enhance their course. The Instructor's Manual includes detailed chapter outlines, learning objectives, ideas for lectures, activities, and student projects, ready-to-use handouts, overhead masters, and multimedia references. Fully integrated with the *P.O.W.E.R. Learning* system, this manual has tips and activities that have a usefulness beyond any particular teaching approach.

Test Bank (ISBN 0-07-249430-1)

By Shirley Cassarà, Bunker Hill Community College, Massachusetts

The Test Bank has been thoroughly upgraded to reflect the new content in *Essentials of Understanding Psychology*, fifth edition. The Test Bank contains more than 2,000 testing items, classified by cognitive type and level of difficulty, and keyed to the appropriate learning objective and section in the textbook. Items that test knowledge of material in the textbook's boxes are indicated for easy reference. Grading suggestions make the Test Bank easy to use.

Computerized Test Bank (ISBN 0-07-249432-8)

Available in a cross-platform format, this CD-ROM makes all the items from the Test Bank easily available to instructors to create their own tests. The test-generating program facilitates the selection of questions from the Test Bank and the printing of tests and answer keys, and also allows instructors to import questions from other sources.

Online Learning Center (ISBN 0-07-249435-2)

The Online Learning Center for Instructors houses downloadable versions of the Instructor's Manual and PowerPoint slides, a variety of other text-specific instructor resources, including a bank of 145 images and a newsletter written by Robert Feldman, and access to our acclaimed customized website creation tool, PageOut! Instructors in need of assistance can contact their McGraw-Hill sales representative via e-mail from the Online Learning Center. Visit us at http://www.mhhe.com/feldmaness5.

Instructor's Resource CD-ROM (ISBN 0-07-253103-7)

The CD-ROM contains every key instructor's resource in one flexible format. The Instructor's Manual, the Test Bank, PowerPoint presentations, and 145-item Image Bank are included along with an easy-to-use interface for the design and delivery of multimedia classroom presentations.

Image Bank

Over 145 illustrations can be downloaded from the Image Bank on the Online Learning Center and used on your course website or in PowerPoint presentations.

In-Class Activities Manual for Instructors of Introductory Psychology (ISBN 0-07-238431-X)

By Patricia A. Jarvis, Cynthia R. Nordstrom, and Karen B. Williams, Illinois State University Geared to instructors of large introductory psychology courses, this activities manual covers every major topic in introductory psychology. Nineteen chapters include 58 separate activities, all of which have been used successfully in the authors' classes in introductory psychology. Each activity includes a short description of the demonstration, the approximate time needed to complete the activity, the materials needed, step-by-step procedures, practical tips, and suggested readings related to the activity. The manual also includes advice and syllabus, what to consider when structuring your large section, how to select and manage a teaching assistant, and other key topics.

Annual Editions Online: Psychology (ISBN 0-07-234602-7)

By Karen G. Duffy, SUNY at Geneseo, New York

With Annual Editions Online: Psychology, you'll have online access to current, carefully selected articles from the public press. The abridged version contains 20 online readings that are supported with well-researched links of interest and built-in assessment in the form of online quizzes and article reviews. An online search engine to connect with additional articles and an online Instructor's Resource Guide are also included. If you are interested in packaging Annual Editions Online with a McGraw-Hill textbook, contact your sales representative for details.

Annual Editions: Psychology 01/02, 31/e (ISBN 0-07-243377-9)

By Karen G. Duffy, SUNY at Geneseo, New York

This reader of public press articles explores the science of psychology; biological bases of behavior; perceptual processes; learning and remembering; cognitive processes; emotion and motivation; development; personality processes; social processes; psychological disorders; and psychological treatments. Annual Editions is supported by Dushkin Online (www.dushkin.com/online/), a student website that provides study support tools and links to related websites.

Taking Sides: Clashing Views on Controversial Psychological Issues, 11/e (ISBN 0-07-237142-0)

By Brent Slife, Brigham Young University, Utah

This debate reader is designed to introduce students to controversies in psychology. The readings, which represent the arguments of leading psychologists and commentators, reflect a variety of viewpoints and have been selected for their liveliness and substance and because of their value in a debate framework. By requiring students to analyze opposing viewpoints and reach considered judgments, Taking Sides actively develops critical thinking skills.

Sources: Notable Sections in Psychology, 3/e (ISBN 0-07-303187-9)

By Terry F. Pettijohn, Ohio State University-Marion

This volume contains approximately 40 selections of enduring intellectual value—classic articles, book excerpts, and research studies—that have shaped the study of psychology and our contemporary understanding of it.

FOR THE STUDENT

Study Guide (ISBN 0-07-2494298)

By Barbara L. Radigan, Community College of Allegheny County, Pennsylvania

The Study Guide integrates the *P.O.W.E.R. Learning* system into a comprehensive review of the text material. Multiple-choice practice tests and essay questions allow students to gauge their understanding of the material. An answer key provides answers to all of the chapter's exercises, including feedback for all multiple-choice items. A list of activities and projects that encourage students to apply psychology to their daily lives is also included. New to this edition is additional information that is designed to help non-native speakers of English understand and retain key course information.

Online Learning Center (ISBN 0-07-2494352)

The Student Online Learning Center houses an array of chapter-by-chapter study tools, including detailed chapter outlines, concepts and learning objectives, key words, self-quizzes, essay questions, activities and projects, explanations of American idiomatic expressions for ESL students, answers to *Epilogue* questions in the textbook, crossword puzzles, interesting Web links, and interactive exercises. Visit us at http://www.mhhe.com/feldmaness5.

Making the Grade CD-ROM (ISBN 0-07-249434-4)

Packaged free with each copy of the text, this CD-ROM is designed to help students perform at their best. It contains practice quizzes for each text chapter, a learning styles assessment, study skills primer, guide to electronic research, and link to the text website.

New! In-Psych Student CD-ROM (ISBN 0-07-249428-X)

In-Psych sets a new standard for introductory psychology multimedia. The CD-ROM is organized according to the textbook chapter outlines and features over 60 interactive exercises chosen to illustrate especially difficult core introductory psychology concepts. Each exercise showcases one of three types of media assets—an audio clip, a video clip, or a simulation and includes a pretest, follow-up assignments, and Web resources. In-Psych also includes chapter guizzes, a student research guide, and an interactive timeline that puts events, key figures, and research in psychology in historical perspective. A learning styles assessment tool helps students identify what kind of learners they are—kinesthetic, auditory, or visual—and then provides them with study tips tailored to their own particular learning style.

WebQuester: Psychology (ISBN 0-07-240850-2)

By Terry F. Pettijohn, Ohio State University-Marion

WebQuester is a series of online interactive exercises covering approximately 20 core topics in psychology. Each website includes 1 to 3 multiple-choice questions, short-answer questions, and essay questions. A 150-page Guidebook to the Web provides practical information and tips; topic areas include Searching the Web, Evaluating Information, Thinking Critically in the World of Information, and Computer Ethics.

Acknowledgments

One of the most important features of Essentials of Understanding Psychology is the involvement of both professionals and students in the review process. The fifth edition of Essentials of Understanding Psychology has relied heavily on—and profited substantially from—the advice of instructors and students from a wide range of backgrounds.

First, the manuscript was evaluated by traditional academic reviewers, who served in their capacity as content experts and teachers of psychology. These reviewers helped ensure that the coverage and presentation was accurate, incorporated state-of-the-art research findings, and remained focused on the diverse needs of introductory psychology courses. They include the following:

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Evergreen Valley College, California

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Arkansas State University

Toni Havnes

Palm Beach Community College, South Campus, Florida

Alylene Hegar
Eastfield College, Texas

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Palm Beach Community College, Central Campus, Florida

Gwen Murdock

Missouri Southern State College

Glen Musgrove

Broward Community College, Central Campus, Florida

Glenda Nichols

Tarrant County Junior College, South Campus, Texas

Sonya Nieves

Broward Community College, South Campus, Florida

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Ben Price

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Antelope Valley College, California

Patricia Stephenson

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Salem State College, Massachusetts

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Palm Beach Community College, Central Campus,

Donald Thompson

Troy State University-Montgomery, Alabama

Joe Tinnin

Richland College, Texas

Richard Townsend

Miami-Dade Community College, South Campus, Florida

Barbara Turner

Pasadena City College, California

Robin Vallacher

Florida Atlantic University, Florida

Jean Volckmann

Pasadena City College, California

Gwen Walker

Los Angeles Mission College, California

Sandra Wilcox

California State University—Dominguez Hills,

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Midland College, Texas

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David Bjorklund

Florida Atlantic University, Florida

Don Borden

Corning Community College, New York

Deb Brihl

Valdosta State University, Georgia

Richard Cavasina

California University of Pennsylvania

Natividad DeAnda

Los Mendosa College, California

Karen T. Douglas

San Antonion College, Texas

Stanley K. Fitch

El Camino College, California

Linda Flickinger

St. Clair County Community College, Michigan

Dave Harrison

Virginia Polytechnic Institute and State University, Virginia

Sara Hart Harrison

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Robert Hynes

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Robert Jensen

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Norman E. Kinney

Southeast Missouri State University

W. Richard Krall

Gateway Community College, Arizona

Len Larsen

Eastfield College, Texas

Joe Manganello

Gloucester County College, New Jersey

Michael R. Markham

Florida International University, Florida

Leslie R. Martin

La Sierra University, California

John Mastenbrook

Del Mar College, Texas

Dorothy L. Mercer Eastern Kentucky University

Michael Miles

Palm Beach Community College, Florida

Richard Miller

Navarro College, Texas

Mindy Miserendino Sacred Heart University, Connecticut

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Glenn J. Musgrove

Broward Community College, Central Campus, Florida

Jerry Newell

Citrus Community College, California

Geri Olson

Sonoma State University, California

Dan Quinn

Northeastern University, Massachusetts

Barbara Radigan

Community College of Allegheny County, Pennsylvania

remisyivumu

Christopher K. Randall

Troy State University-Montgomery, Alabama

Karen Pitts Saenz

Houston Community College-Southeast, Texas

Nicole Schnopp-Wyatt

Pikeville College, Kentucky

Norman Schorr

Montgomery College-Rockville, Maryland

Sharon Scott

South Plains College, Texas

Ann Shaver

Fairmont State College, West Virginia

Debjani Sinha

University of Cincinnati, Ohio

Nathan Slaughter

Merritt College, California

Jeanne Spaulding

Houston Community College, Texas

William Vasquez

Palo Alto College, California

Charles Verschoor

Miami-Dade Community College, Florida

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California State University-Dominguez Hills

Matthew P. Winslow Eastern Kentucky University

Andrea Zabel

Midland College, Texas

Another group of reviewers consisted of a panel of students who had used *Understanding Psychology* in their introductory psychology class. Over the course of a subsequent semester, they reviewed the entire book, literally line-by-line. Their insights, suggestions, and sometimes all-too-enthusiastic criticism were invaluable to me as I prepared this revision. The student review panel consisted of Cherilyn Johnson, Louis Meunier, Stacey Whitbourne, and Phil Zeyte.

Finally, dozens of students read parts of the manuscript to ensure that the material was clear and engaging. Their suggestions are incorporated throughout the text. I am grateful to all of these reviewers who provided their time and expertise to help ensure that *Essentials of Understanding Psychology* reflects the best that psychology has to offer.

I also owe a great deal to numerous others. My thinking has been shaped by many teachers along my educational path. I was introduced to psychology at Wesleyan University, where several committed and inspiring teachers—in particular Karl Scheibe—conveyed their sense of excitement about the field and made its relevance clear to me. Karl epitomizes the teacher-scholar combination to which I aspire, and I continue to marvel at my fortune in having such a role model.

By the time I left Wesleyan I could envision no other career for myself but that of psychologist. Although the University of Wisconsin, where I did my graduate work, could not have been more different from the much smaller Wesleyan, the excitement and inspiration were similar. Once again, a cadre of excellent teachers—led, especially, by the late Vernon Allen—molded my thinking and taught me to appreciate the beauty and science of the discipline of psychology.

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Ultimately, my children, Jonathan, Joshua, and Sarah, and my wife, Katherine, remain the focal point of my life. I thank them, with immense love.

Robert S. Feldman Amherst, Massachusetts



The student review panel, who reviewed the material in this book in depth, consisted of Phil Zeyte, Cherilyn Johnson, Louis Meunier, and Stacey Whitbourne.

Using Essentials of Understanding Psychology: A Guide for Students

If you're reading this passage, you're probably taking an introductory psychology course. Maybe you're studying psychology because you've always been interested in what makes people tick. Or perhaps you've had a friend or family member who has sought assistance for a psychological disorder. Or maybe you have no idea of what psychology is all about, but you know that taking an introductory psychology course would fulfill a degree requirement.

Whatever your motivation for taking the course and reading this book, here's my commitment to you: by the time you finish this text, you will have a better understanding of why people—including you—behave the way they do. You will know how, and why, psychologists conduct research, and you'll have an understanding of the theories that guide their research. You will become acquainted with the breadth of the field, and you'll obtain practical, useful information. In short, you'll gain a wealth of knowledge that hopefully will excite your curiosity and increase your understanding of people's behavior.

To meet this commitment, *Essentials of Understanding Psychology* has been written with you, the reader, in mind. At every step in the development of the book, students and instructors have been consulted extensively in an effort to identify the combination of learning tools that would maximize readers' ability to learn and retain the subject matter of psychology. The result is a book that contains features that will not only help you to understand psychology, but also make it the discipline that is a part of your life.

Now it's your turn; you'll need to take several steps to maximize the effectiveness of the learning tools in this book. These steps include familiarizing yourself with the scope and structure of the book, using the built-in learning aids, and employing a systematic study strategy.

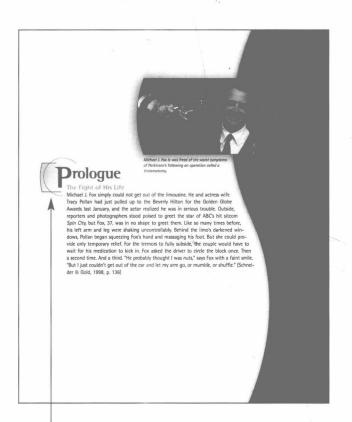


Familiarize Yourself with the Scope and Organization of *Essentials of Understanding Psychology*

Begin by reading the list of chapters and skimming the detailed Contents pages. From this you will get a sense of the topics covered and the logic of the sequence of chapters. Then take some time to flip through the book. Choose a chapter that sounds particularly interesting to you, skim it, and see for yourself how it is laid out. Note that every chapter follows the same diamond-shaped pattern.

The heart of each chapter consists of several self-contained units that provide logical starting and stopping points for reading and studying. You can plan your studying around the three or four major sections of each chapter. For instance, if your instructor assigns a chapter to read over the course of a week, you might plan to read and study one major section each day, using later days in the week to review the material.

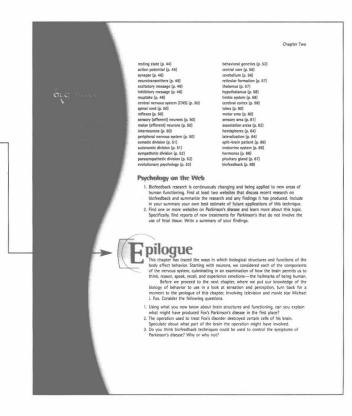
Use the Built-in Learning Aids

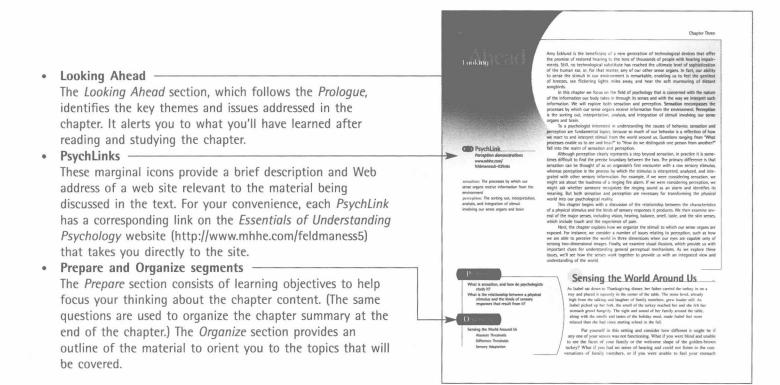


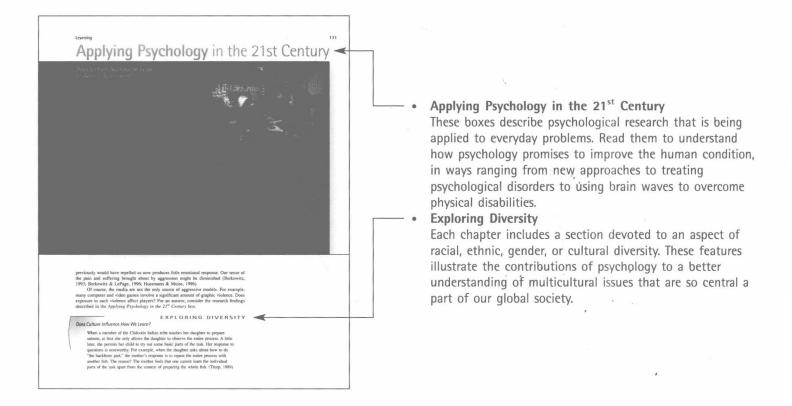
Once you have acquired a broad overview of *Essentials of Understanding Psychology*, you are ready to begin reading and learning about psychology. Each chapter contains learning aids that will help you master the material. In addition, the book incorporates the *P.O.W.E.R. Learning* system. As we'll discuss in further detail later, the *P.O.W.E.R. Learning* system is based on a series of five steps: *P*repare, *O*rganize, *Work*, *E*valuate, and *R*ethink. Each major section of a chapter starts with a *P*repare and *O*rganize segment, and—after you do the *W*ork of reading the section—ends with an *E*valuate and *R*ethink segment. Making use of the *P.O.W.E.R. Learning* system and the other built-in features will help you study more easily and effectively.

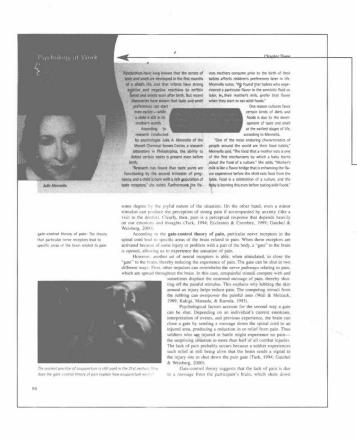
Prologue and Epilogue

Each chapter begins with a *Prologue* and ends with an *Epilogue*. The *Prologue* sets the stage for the chapter, providing a brief account of a real-life event that is relevant to the chapter content, and demonstrating why the material in the chapter is important. The *Epilogue* refers back to the *Prologue*, seeking to place it in the context of the chapter subject matter and asking questions designed to encourage you to think critically about what you've read.









Psychology at Work

These boxes present brief interviews with psychologists and other professionals who draw on psychological principles and findings in their work. These biographical sketches provide a glimpse of the broad range of professions that use psychology. They can help answer your questions on how to use your knowledge of psychology as you follow your own career path.

Running Glossary

When a key term or concept appears in the text, it appears either in boldface or italics. Boldfaced words are of primary importance; italicized words are of secondary importance. Terms and concepts in bold are defined in the text where they are introduced and in the text margins, and in the end-of-book glossary. In addition, boldfaced terms are included in the page-referenced list of *Key Terms and Concepts* at the end of every chapter. You might want to highlight these terms with a marker.

Becoming an Informed Consumer of Psychology
 One of the major goals of Essentials of Understanding Psychology is to make readers more informed, critical consumers of information relating to psychological issues. These discussions, found in every chapter, give you the tools to evaluate information concerning human behavior that you might hear or read about in the media or on the Web.

affective disorder, a form of severe depression in which feelings of despair and hope-lessness increase during the winter and lift during the rest of the year. The disorder appears to be a result of the brevity and gloom of winter days. Psychologists have found that several hours of daily expourse to bright lights is sometimes afficient to improve the mood of those with the disorder (Sack et al., 1909, Roush, 1995; Orn & Transland reptime septime to the first proper have in frying the lift in the protein affective to improve the mood of those with the disorder (Sack et al., 1909, Roush, 1995; Orn & Transland reptime septime the difficulty people have in frying through multiple time zones—the phenomenon of Jer log. Plots, as well as others who must work on constantly changing time shifts golice offers and physicians), must light their internal clocks. The result can be fatigue, irritability, and, even worse, ourigin error. In fact, an individual of supplementation of the properties of the

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