and is for its

2 CORE CONCEPTS

USED BOOK

This book was originally distributed as a sample copy by the publisher for academic review. It was subsequently purchased by a book dealer and classified as "Used" in order to provide substantial savings and value to the purchaser. All chapters and pages are included.

PHILIP G. ZIMBARDO

ROBERT L.

JOHNSON

ANN L. WEBER

PSYCHOLOGYCore Concepts

Fifth Edition

Philip G. Zimbardo

Stanford University

Robert L. Johnson

Umpqua Community College

Ann L. Weber

University of North Carolina at Asheville



Allyn and Bacon

Boston New York San Francisco Mexico City Montreal Toronto London Madrid Munich Paris Hong Kong Singapore Tokyo Cape Town Sydney Publishers' Design and Production Services, Inc.

Executive Editor:

Susan Hartman Senior Development Editor:

Sharon Geary

Editorial Assistant:

Therese Felser

Production Supervisor:

Karen Natale Joe Sweeney

Editorial Production Service:

Executive Marketing Manager:

Margaret Pinette

Composition Buyer:

Linda Cox

Manufacturing Buyer:

Megan Cochran

Electronic Composition: Interior Designer:

John Walker and Publishers' Design and Production Services, Inc.

Photo Researcher:

Sarah Evertson

Cover Administrator:

Linda Knowles

For related titles and support materials, visit our onliune catalog at www.ablongman.com.

Copyright © 2006, 2003, 2000 by Philip G. Zimbardo

All rights reserved. No part of the material protected by this copyright may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without written permission from the copyright holder.

To obtain permission(s) to use material from this work, please submit a written request to Allyn and Bacon, Permissions Department, 75 Arlington Street, Boston, MA 02116 or fax your request to 617-848-7320.

0-205-42428-7

Credits

Chapter 1: page 1, © R. Lord/The Image Works; page 2, Public Domain; page 4, © Kelly-Mooney Photography/CORBIS; page 5, © Alan Carey/ The Image Works; page 9, © Davis Barber/PhotoEdit; page 11, Archives of the History of American Psychology, University of Akron; page 12, © Bettmann/CORBIS; page 15, © AGStockUSA, Inc./Alamy; page 16, AP/Wide World Photos; page 18, © R. Lord/The Image Works; page 22, © V. Richard Haro/Fort Collins Coloradoan; page 25, from "The Cartoon Guide to Statistics" by Larry Gonick & Wollcott Smith; page 27, © The New Yorker Collection 1993. Donald Reilly from cartoonbank.com. All Rights Reserved; page 29, Hugo Van Lawick/National Geographic Image Collection; page 32, \odot P. Gontier/Explorer/Photo Researchers, Inc.; page 33, Courtesy of Philip G. Zimbardo.

Chapter 2: page 41, © Stockbyte; page 42, Courtesy of Robert Lee Johnson; page 45 (left), © Tim Davis/Getty Images/Stone; page 45 (right), © Daniel Arsenault/Getty Images/The Image Bank; page 56, © Vince Bucci/Getty Images; page 65, Courtesy of Philip G. Zimbardo; page 67 (top), © Dr. Robert Friedland / Science Photo Library / Photo Researchers, Inc.; page 67 (bottom), © SPL/Photo Researchers, Inc.; page 67 (middle), © UHB Trust/Getty Images/Stone; page 71 (left), © Dana White/PhotoEdit; page 71 (right), © Jeff Greenberg/PhotoEdit; page 71 (bottom), © Esbin-Anderson/The Image Works; page 72, Ralph T. Hutchings; page 73,

Chapter 3: page 89, Henri Rousseau, "The Sleeping Gypsy." 1897. Oil on Canvas. 51" x 6' 7" (129.5 x 200.7 cm). Gift of Mrs. Simon Guggenheim. 646.39. © The Museum of Modern Art/Scala/Art Resource, NY; page 90, © 2004 Gala-Salvador Dali Foundation, Figueres, Spain, © Salvador Dali Museum, Inc. St. Petersburg, Florida, USA/Bridgeman Art Library; page 91, © Volker Steger/Peter Arnold, Inc.; page 92, Courtesy of Marcus E. Raichle, M.D. Washington University School of Medicine; page 98, © Rhoda Sidney/The Image Works; page 104, © Paul Conklin/PhotoEdit; page 107, Henri Rousseau, "The Sleeping Gypsy." 1897. Oil on Canvas. 51" x 6' 7" (129.5 x 200.7 cm). Gift of Mrs. Simon Guggenheim. 646.39. © The Museum of Modern Art/Scala/Art Resource, NY; page 108, © Ogust/The Image Works; page 109, © Louis Psihoyos; page 110 (left), © Chad Slattery/Getty Images/Stone; page 110 (right), © Amy Etra/PhotoEdit; page 113, PhotoDisc, Inc.; page 114 (left) © Richard Heinzen/Superstock, Inc.; page 114 (right), © Michael Newman/PhotoEdit; page 117, © Jeff Greenberg/PhotoEdit; page 118, Images in Neuroscience, Carol A. Tamminga, M.D., Editor, Neuroimaging, XIII, SPECT Imaging of Synaptic Dopamine, Photographs courtesy of Dr. Innis from the Yale Neurochemical Brain Imaging Program, Am J Psychiatry 153:10, October 1996; page 120 (top), © Thinkstock/Getty Images (Royalty-free); page 120 (bottom), © Ghislain & Marie David de Lossy/Getty Images/The Image Bank.

Credits continue on page C-1 following reference section.

SOL

FREE COPY NOT TO

FREE COPY NOT TO BE SOLD

FREE COPY NOT TO BE SOLD

FREE COPY NOT TO BE SOLD

Printed in the United States of America

10 9 8 7 6 5 4 3 2 1 VHP 09 08 07 06 05

To the Student . . .

There is one simple formula for academic success, and the following demonstration will show you what it is. Study this array of letters for a few seconds:

IBMUFOFBICIA

Now, without peeking, write down as many of the letters as you can (in the correct order).

Most people remember about five to seven letters correctly. A few people get them all. How do these exceptional few do it? They find a pattern. (You may have noticed some familiar initials in the array above: IBM, UFO, FBI, CIA.) Finding the pattern greatly eases the task because you can draw on material that is already stored in memory. In this case, all that needs to be remembered are four "chunks" of information instead of 12 unrelated letters.

The same principle applies to material you study for your psychology class. If you try to remember each piece of information as a separate item, you will have a difficult time. But if instead you look for patterns, you will find your task greatly simplified—and much more enjoyable. So, how can you identify the patterns? With a little help from your friendly authors, who have developed several learning features that will make meaningful patterns what you are reading in this text stand out clearly:

Core Concepts: We have organized each major section of every chapter around a single, clear idea called a Core Concept. For example, one of the four Core Concepts in the "Memory" chapter says:



Human memory is an information processing system that works constructively to encode, store, and retrieve information.

The Core Concept, then, becomes the central idea around which about 10 pages of material—including several new terms—are organized. As you read the chapter, then, keeping the Core Concept in mind will help you encode the new terms and ideas related to that concept, store them in your memory, and later retrieve them when you are being tested.

xviii

Key Questions: Each Core Concept is introduced by a Key Question that also serves as a main heading in the chapter. Here, for example, is a Key Question from the Memory chapter:

WHY DOES MEMORY SOMETIMES FAIL US?



Key Questions such as this will help you anticipate the most important point, or the Core Concept, in the section. In fact, the Core Concept always provides a brief answer to the Key Question. Think of the Key Question as the high beams on your car, helping you focus on what lies ahead. Our key questions should also serve as guides for you to be posing questions of your own about what your are reading.





- Psychology in Your Life: Psychology has many connections with events in the news and in everyday life, and we have explored one of these connections at the end of each major section in every chapter. What make psychology so fascinating to us and to our students are all the ways in which things learned in this course directly apply to events and experiences in the real worls. To illustrate, here are some examples from the "Memory" chapter:
 - Would You Want a "Photographic" Memory?
 - "Flashbulb" Memories: Where Were You When . . . ?
 - On the Tip of Your Tongue
 - Improving Your Memory with Mnemonics

Such connections—practical, down to earth, and interesting—link your reading about psychology with your real-life experiences. They also help you critically evaluate many of the psychological ideas you encounter in the popular press. Also begin to notice how often you read stories about "research shows that . . ." By the end of this course, you will become a much wiser consumer of such information—some of which is often false or misleading.





■ *Do It Yourself!* We have scattered active-learning demonstrations (such as the one at the beginning of this student preface) throughout the book. Besides being fun, these activities have the serious purpose of illustrating

principles discussed in the text. In the "Memory" chapter, for example, one Do It Yourself! box helps you find the capacity of your short-term memory; another lets you test your "photographic memory" ability.

- Check Your Understanding and Review Tests: Whether you're learning psychology, soccer, or the saxophone, you need feedback on your progress, and that's exactly what you will get from the Check Your Understanding quizzes and the Review Tests. These exercises will let you determine how well you have mastered the material.
- Using Psychology to Learn Psychology: In a section near the end of every chapter, we explain how you can apply your new knowledge of psychology to make your studying more effective. For example, in Chapter 2, "Biopsychology," we tell you how to put your understanding of the brain to work for more efficient learning. Similarly, at the end of the chapter on "Emotion and Motivation," we explain how to use a new psychological concept of "flow" to boost your own academic motivation. Thus, Using Psychology to Learn Psychology not only reinforces points that you have studied, it brings the material home with immediate and practical applications to your life in college.
- Connection Arrows: Important topics in other chapters are often cross-referenced with an arrow in the margin, as you can see in the sample here. The accompanying reference gives you either a preview or reminder of concepts covered in other chapters. This feature helps you see the interrelatedness of ideas in psychology.
- Chapter Summaries: We have made our summaries rather brief—intended to provide you with an overview of main points in each chapter. They remind you of the patterns instead of loading you with the details. One caution: They are not a substitute for reading the chapters! One helpful hint: Read



CONNECTION: CHAPTER 12

Retrograde amnesia involves loss of memory for information acquired in the past.

the summary before you read the rest of the chapter to get a flavor of what's ahead, then reread the summary after you finish the chapter. Reading the summary before will help you organize the material so that it can be more easily encoded and stored in your memory. And, naturally, reviewing the summary after reading the chapter will reinforce what you have just learned so that you can retrieve more of it in the future.

Our Recommended Books and Videos: Your authors hope that your interest in psychology will give you new lenses with which to look at the world beyond this book. When you do, you will discover something related to behavior and mental processes nearly everywhere. To pique this interest, every chapter offers a list of relevant, stimulating books and videos that will extend the scope of your learning.

We have built into this text many other learning features, such as the marginal glossary, and the extensive references list (which can be a good resource for term papers). You will learn more about these as you use the book; but if you want a bit more information on our purposes for including these features, please read the Instructor's Preface.

We have one final suggestion to help you succeed in psychology: While this book is filled with examples to illustrate the most important ideas, you will remember these ideas longer if you generate your own examples as you study. This habit will make the information yours, as well as ours. And so, we wish you a memorable journey through the field we love.

Phil Zimbardo Bob Johnson Ann Weber

SUPPLEMENTS FOR STUDENTS

- Grade Aid Study Guide: This robust study guide, written by Diane Finley of Prince George's Community College, is filled with guided activities and in-depth exercises to promote student learning. Each chapter includes "Before You Read," presenting a brief chapter summary and learning objectives; "As You Read," offering a collection of demonstrations, activities, and exercises; "After You Read," containing three short practice quizzes and one comprehensive chapter exam; "When You Have Finished," presenting web links for further information and a crossword puzzle using key terms from the text. An appendix includes answers to all practice tests and crossword puzzles.
- Companion Website: Connecting the textbook to the internet, this unique tool includes learning objectives, annotated web links, flashcard glossary terms, and online practice tests organized by chapter. Visit this site at www.ablongman.com/zimbardo5e.
- MyPsychLab: This interactive and instructive multimedia resource can be used to supplement a traditional lecture course or to administer a course entirely online. It is an all-inclusive tool, a text-specific e-book plus multimedia tutorials, audio, video, simulations, animations, and controlled assessments to completely engage students and reinforce learning. Fully customizable and easy to use, MyPsychLab meets the individual teaching



- and learning needs of every instructor and every student. Visit the site at www.mypsychlab.com.
- Mind Matters II CD-ROM: A unique tool that combines major concepts with interactivity, this CD-ROM offers a wide range of learning opportunities, including activities with immediate feedback, video clips of historic experiments and current research, animations, simulations, and an interactive glossary of key terms. To see sample modules, visit www.ablongman.com/mindmatters.
- Evaluating Psychological Information: This workbook, Sharpening Your Critical Thinking Skills, 4th edition, developed by James Bell, focuses on helping students evaluate psychological research systematically and improving critical thinking skills.
- How to Write Psychology Papers, 2nd edition: Les Parrott provides a brief overview for writing APA-style psychology papers, including information on overcoming paper panic, using the Internet, preparing a working reference list, avoiding plagiarism, and using inclusive language.
- Discovering Psychology Telecourse Study Guide: In this Telecourse Study Guide, each chapter corresponds to one program, expands on the material covered in the program, specifies appropriate reading assignments, and reviews material covered in the text. In addition, the study guide includes learning objectives; reading assignments; key people and terms; video program summaries and test questions with answer key; textbook test questions with answer key; essay questions; student activities; additional book, article, and film resources; and annotated websites. All vocabulary and review questions are keyed to Psychology: Core Concepts.
- Study Card for Introduction to Psychology, © 2005: Colorful, affordable, and packed with useful information, Allyn & Bacon/Longman's Study Cards make studying easier, more efficient, and more enjoyable. Course information is distilled down to the basics, helping students quickly master the fundamentals, review a subject for understanding, or prepare for an exam.

To the Instructor . . .

We teachers of psychology have a little secret that we usually don't talk about, even among ourselves: Every introductory text contains more material than a student can possibly learn while taking the first course in psychology. Yet most texts try to cram ever more material into each new edition because the knowledge base in our field continues to grow at an exponential pace.

There is much that we want our students to know. Since the 4th edition of this text, neuroscience has revealed many more brain mechanisms underlying development, thinking, learning, perception, and every other subfield of psychology. At the same time, gender and culture issues have grown in prominence. Likewise, genetic variables have competed for the spotlight, as fallout from the human genome project has forced psychologists to consider anew the old questions about nature and nurture.

Cognitive psychologists, too, have been busy expanding the frontiers of knowledge about implicit memory, concept learning, and cognitive development. But they have been pressured by their colleagues working on "hot" cognition research to recognize the role of emotion in memory and thinking. Meanwhile, on the clinical front, psychologists have been accumulating evidence for psychological therapies of demonstrable effectiveness—some of which challenge the hegemony of Prozac and Valium.

And, of course, the terrorist attacks of September 11, 2001, have refocused our attention on the origins of aggression and violence. As we write this, the revelations of the horrendous abuses of Iraqi prisoners by American Army reservist MPs raise the fundamental questions of situational versus dispositional explanations for such pathological behavior. Are there just a few bad apples, or was that behavior the product of a systematic corruption of good soldiers in the bad barrel of a war prison?

Obviously, we, as writers of an introductory psychology text, must wrestle with several problems. How can we include the exciting new developments in the field and still acquaint students with all the classic studies, historical trends, and multiple perspectives in the field? How can we add what is new and clearly valuable to understanding the human condition without cutting out a lot of what has been traditional—and, at the same time, keep the book within manageable proportions? How can we make psychology meaningful to students without overwhelming them with information?

For this 5th edition of *Psychology: Core Concepts*, your authors have again had to make difficult choices, and we hope you will agree with most of them. The fact that each instructor has the opportunity to introduce additional materials in class eases the pressure somewhat. Accordingly, we hope you will feel

free to let this book give students a broad overview of the field, while you emphasize your favorite topics and concepts. In fact, one of the things you, as a teacher, can do far better than any text is to model how a psychologist thinks and solves problems.¹

But, as psychologists, we realize that the problem for students is not just one of sheer volume and information overload; it is also a problem of meaningfulness. With this in mind, we have again found inspiration in a classic study of chess players. As you may recall, Adrian de Groot (1965) and his colleagues (Chase & Simon, 1973) showed that experts did no better than novices at remembering the locations of pieces on a chess board when the pieces were placed at random. Only when the patterns made sense—because they represented positions that would be found in real games—did the experts show a big advantage of their experience. Clearly, meaningful patterns are easier to remember than random arrangements.

In applying this finding to *Psychology: Core Concepts*, 5th edition, our goal has been to help students take the first steps toward becoming more expert psychologists by revealing to them meaningful patterns that occur throughout the field of psychology. We have developed a number of special pedagogical features in our text that help us achieve this goal:

■ Core Concepts: We have organized the major sections of every chapter around a single, clear idea that we call a Core Concept. Here is an example from the chapter on "Sensation and Perception":



The brain senses the world indirectly because the sense organs convert stimulation into the language of the nervous system: neural impulses.

To borrow an old saying, the Core Concepts become the "forest," while the details of the chapter become the "trees."

Key Questions: The main headings in each chapter appear in question form, as in this example, which introduces the Core Concept shown above:



HOW DOES STIMULATION BECOME SENSATION?

Fundamental questions such as these help students anticipate and focus on the most important idea, the Core Concept, which serves as a brief answer to the Key Question. Both the Key Questions and the Core Concepts later reappear as organizing features of the Chapter Summary.

¹In this vein, we commend to you a new book, *What the Best College Teachers Do* (Bain, 2004). It lays out the results of a 15-year study of college teachers who were nominated as "the best" by their students and colleagues. One of the factors that all of the best had in common was helping students learn how to think and solve problems like experts in their disciplines.





- Psychology in Your Life: One reason that psychology continues to fascinate and involve so many students stems from its obvious relevance to the events in their lives. We explore one of these links between psychology and life at the end of each main division of every chapter. Here are some examples:
 - Emotional Differences between Men and Women Depend on Culture
 - The Origins of Sexual Orientation
 - A Critical Look at "Learning Styles"
 - How Psychoactive Drugs Affect the Nervous System
 - Explaining Unusual People and Unusual Behavior

Such real-life explorations not only make psychology come alive, but they also promote critical thinking by helping students evaluate some of the pop psychology they encounter in the media. We believe that learning how psychologists think about real-life issues can help your students become wiser consumers of information in the public media pertaining to mind, brain, and behavior.

- Do It Yourself! These active-learning boxes offer simple and effective demonstrations of principles discussed in the text. Many are borrowed from demonstrations we have used successfully in our own classrooms. They include, among other topics, locating one's blind spot, demonstrating the concept of mental set, finding the capacity of working memory, checking one's locus of control, wrestling with IQ test items, and second-guessing a surprising social psychology experiment.
- Using Psychology to Learn Psychology: In a special section at the end of every chapter, we consider how some aspect of the chapter applies to studying and learning. For example, in the context of biopsychology, we show students how to put their knowledge of the brain to work for more efficient learning. Similarly, in the discussion of thinking, students learn how the psychology of expertise (as in de Groot's studies of chess masters) applies to their mastery of the concepts in psychology. Thus, "Using Psychology to Learn Psychology" not



CONNECTION: CHAPTER 8

Expert knowledge is organized into elaborate schemas.





only reinforces points that students have learned, it brings the material home with immediate and practical applications to their college lives.

- Connection Arrows: Uniquely in this book, important topics in other chapters are often cross-referenced with an arrow in the margin, as you saw in the previous paragraph. These icons are used in place of the phrase, "as we will see in Chapter X." A brief explanatory note accompanies these arrows, giving students a headline preview of the discussion to be found in the referenced chapter. We intend this feature to convey the sense of psychology as a web of interconnecting ideas.
- Our Recommended Books and Videos: At the end of each chapter in the 5th edition, you'll find a short section in which we list our top picks of worthwhile books and rentable videos, both classics and more contemporary works. Each has been selected by our media guru, Ann Weber, as illustrative of some concept in the chapter.
 - Multiple Perspectives on Terrorism: Finally, this edition of Psychology: Core Concepts again addresses the problem of terrorism. In the social psychology chapter we bring together the concepts developed in our discussions of aggression, violence, and conflict, applying them to build an understanding of terrorism. Doing this requires what may be psychology's greatest strength: the use of multiple perspectives, including biopsychology, social learning, and cognitive psychology, as well as perspectives drawn from sociology, history, political science, and other disciplines.

Along with these unique features, this new edition of *Psychology: Core Concepts* offers the breadth and depth of content plus the tried-and-true pedagogical devices that are standard for any modern introductory psychology text:

- Marginal glossaries: In this 5th edition of Psychology: Core Concepts, the most important terms again appear in boldface, with their glossary definitions readily accessible in the margin. Then, at the end of the book, a comprehensive Glossary section gathers together all the terms and definitions from each chapter.
- Check Your Understanding and Chapter Review Tests: Reviewers have told us that they want a book that promotes active reader involvement. The 5th edition of Psychology: Core Concepts does this in many ways. One of the most important for student learning is the Check Your Understanding feature, which offers a brief quiz at the end of each main chapter section. This is a quick checkup for the student to determine if she or he has gotten the main points from what was just read. We have written these guizzes so that they reinforce specific information from the chapters as well as some of the more abstract concepts. Accordingly, some questions call for simple recall, while others call for deeper analysis or application of material. In addition, at least one question in each Check Your Understanding quiz is aimed squarely at the Core Concept of the section. Similarly, the Review Test at the end of each chapter helps students assess their overall retention and understanding of the material in that chapter before going on to start the next one.
- Chapter Summaries: The goal of each Chapter Summary is to provide students with a brief overview of the main points in that chapter, organized around the Key Questions and Core Concepts. We hope that you will advise your students to review these chapter summaries before reading the chapter, to get a preview of the

- chapter content and organization, and then again *after* having read the chapter, to reinforce their learning.
- Culture and gender: Nearly every chapter brings in a culture- or gender-related concept. We have not trivialized this material by setting it aside in special boxes. Rather, culture and gender have been fully integrated with whatever psychological topic is being presented in the running text.

What is new to this edition? We think you and your students will like the following additions and modifications.

- The Seven Modern Perspectives: Updated: The Big Seven major modern perspectives have been updated to include trait psychology and the developmental viewpoint—both of which had long been ignored in the "perspectives" section of this and other texts. The modern perspectives we list in this edition are: biological, developmental, cognitive, clinical, behavioral, trait, and social-cultural. As you can surmise, evolution and neuroscience now fall under the biological perspective, while the clinical perspective includes both humanistic and psychodynamic psychologies.
- State of the Art: Each chapter ends in a "State of the Art" section, which briefly characterizes and reviews what's known and also points to the unknowns that are ripe for research. One of the things we're trying to do here is to get budding young researchers thinking about what the unsolved problems and big mysteries are in psychology.
- Making the abstract concrete: You will find a new emphasis on providing concrete examples of abstract concepts, along with an increased use of metaphors and similes, where appropriate—all designed to help students assimilate unfamiliar and abstract ideas. We think your students will find this especially helpful in mastering difficult concepts in biopsychology.
- Fewer boldfaced terms: In response to reviewers' requests, we have been more selective about the terms we deem important enough to put in boldface and include in the marginal glossary. Again the goal is to avoid information overload, while calling students' attention to the most important terms.
- More judicious use of connection arrows in the margins: While we have retained these icons as a tactic for conveying the vital connections of ideas and principles within our field, reviewers have advised us that less would be more—that fewer would be more useful to readers and, at the same time, provide a cleaner, less-cluttered look for the text.

This edition has also undergone a major developmental revision for content coverage and accuracy. While no book can be altogether free of slipups, we think you'll agree that this edition does an extraordinarily good job of getting psychology right.

We think you will like the introduction to psychology presented in this book—both the content and the pedagogical features. After all, it's a text that relies consistently on well-grounded principles of psychology to teach psychology.

INSTRUCTOR SUPPLEMENTS

The following supplements will also enhance teaching and learning for you and your students:

Instructor's Manual: This helpful teaching companion features at-a-glance grids, handouts, lecture enhancements, detailed chapter outlines, activities

- for the classroom, and other valuable course organization material for new and experienced instructors.
- Test Bank: Paul Wellman of Texas A&M University has provided an updated test bank containing over 2000 questions, including multiple choice, true/false, short answer, and essay (each with an answer justification). All questions are labeled with a page reference, difficulty ranking, and a type designation. This product is also available in TestGen computerized version for use in creating tests in the classroom.
- PowerPoint Presentation: David Lundberg-Kenrick has created a Power-Point package with detailed outlines of key points for each chapter supported by charts, graphs, diagrams, and other visuals from the textbook. The presentation also contains links to the companion website for corresponding activities.
- The Allyn & Bacon Introduction to Psychology Transparency Set: This set of approximately 200 full-color transparencies is available upon adoption of the text from your local Allyn & Bacon sales representative.
- Allyn & Bacon Digital Media Archive for Psychology, 4.0: This comprehensive CD-ROM includes charts, graphs, maps, tables, and figures, with audio clips and video clips and links to relevant web sites.
- Insights into Psychology, Volumes I–IV: A new set of video resources prepared to accompany Allyn & Bacon's texts in introductory psychology, each video consists of 15 to 16 topics, each supported by 2 to 3 video clips. Critical thinking questions accompany each clip. In addition, the video guide provides further critical thinking questions and Internet resources for more information.
- Blockbuster Guide for Introduction to Psychology: NEW! The Blockbuster Guide is a unique print resource for instructors who enjoy enhancing their classroom presentations with film. With heavy coverage of general, abnormal, social, and developmental psychology, this guide suggests a wide range of films to use in class and provides activities, questions for reflection, and other pedagogical tools to make the use of film more effective in the classroom.
- MyPsychLab: This interactive and instructive multimedia resource can be used to supplement a traditional lecture course or to administer a course entirely online. It is an all-inclusive tool, a text-specific e-book plus multimedia tutorials, audio, video, simulations, animations, and controlled assessments to completely engage students and reinforce learning. Fully customizable and easy to use, MyPsychLab meets the individual teaching and learning needs of every instructor and every student. Visit the site at www.mypsychlab.com.
- CourseCompass: Powered by Blackboard, this course management system uses a powerful suite of tools that allows instructors to create an online presence for any course.
- Discovering Psychology Telecourse Videos: Written, designed, and hosted by Phil Zimbardo, this set of 26 half-hour videos is available for class use from the Annenberg/CPB collection. The collection includes two completely new programs and more than 15 new sequences that bring students up-to-date in some of the latest developments in the field. A perfect complement to Psychology: Core Concepts, this course supplement is a landmark educational resource that reveals psychology's contribution not only to understanding the puzzles of behavior but also to identifying solutions and

- treatments to ease the problems of mental disorders. It has won numerous prizes and is widely used in the United States and internationally.
- Discovering Psychology Telecourse Faculty Guide: The Telecourse Faculty Guide provides guidelines for using Discovering Psychology as a resource within your course. Keyed directly to Psychology: Core Concepts, the faculty guide includes the complete Telecourse Study Guide plus suggested activities; suggested essays; cited studies; instructional resources, including books, articles, films, and websites; video program test questions with answer key; and a key term glossary.

A NOTE OF THANKS

Nobody ever realizes the magnitude of the task when taking on a textbook-writing project. Susan Hartman and Kelly May, our Acquisitions Editors, deftly guided (and prodded) us through this process. The vision of the 5th edition confronted reality under the guidance of Pamela Barter, our tenacious Developmental Editor, who made us work harder that we had believed possible. We suspect that Pam may be able to leap tall buildings in a single bound, but we know with certainty that she has the X-ray eyes of an editor. Time and again she spotted glitches and potentially troublesome wording that had slipped passed the six less-penetrating eyes of your authors.

The job of making the manuscript into a book fell to Joe Sweeney, Production Supervisor, and Margaret Pinette, our puckish copyeditor, in whom we met a stickler for style with a great sense of humor. We think they did an outstanding job—as did our tireless photo researcher, the tenacious Sarah Evertson, who had the class and brass to get photos from even the most reluctant of sources.

We are sure that none of the above would be offended if we reserve our deepest thanks for our spouses and closest colleagues. Phil thanks his wonderful wife, Christina Maslach, for her endless inspiration and for modeling what is best in academic psychology.

Ann thanks her long-suffering spouse, John Quigley, for always and readily encouraging her efforts and assuring her that she's "the best." It will surprise no one who knows her that Ann also thanks her six cats and one perfect dog for their abiding, accepting love and for providing perspective and acceptance, no matter what. She also would like to thank her students and colleagues in the Department of Psychology, UNC at Asheville, for providing feedback, input, and inspiration of the teaching profession as well as the minutia of composing a book—lessons, examples, gimmicks, and especially ideas and images that don't work and so have to be deleted before the manuscript ever sees the light of publication!

Bob is grateful to his spouse and friend, Michelle, who put up with long conversations on topics psychological, Bob's undone household chores, and much gratification delayed—mostly without complaint. She has been a well-spring of understanding and loving support. His thanks, too, go to Rebecca, their daughter, who has taught him the practical side of developmental psychology—and now, much to her own astonishment, possesses a graduate degree in psychology. In addition, he thanks his friends and colleagues Mike Vasey, Suzy Horton, and Kandis Mutter, who read and commented on the previous edition and on portions of the new manuscript. It would be impossible to thank them enough.

Many experts and teachers of introductory psychology also shared their constructive criticism with us on every chapter and feature of the 5th edition of this text:

Michele Breault, Truman State University Jay Brown, Southwest Missouri State University Wanda Clark, South Plains College John Conklin, Camosun College (Canada) Michelle L. Pilati Corselli, Rio Hondo College Sara DeHart-Young, Mississippi State University Janet DiPietro, John Hopkins University Diane Finley, Prince George's Community College Krista Forrest, University of Nebraska at Kearney Rick Froman, John Brown University Jack Hartnett, Virginia Commonwealth University Michael Hillard, Albuquerque TVI Community College Brian Kelley, Bridgewater College

Sheila Kennison, Oklahoma State University Dawn Lewis, Prince George's Community College Deborah Long, East Carolina University Cindy Nordstrom, Southern Illinois University Jeff Pedroza, Santa Ana College Laura Phelan, St. John Fisher College Skip Pollock, Mesa Community College Lynne Schmelter-Davis, Brookdale, County College of Monmouth

Patricia Stephenson, Miami Dade College Stacy Walker, Kingwood College

We also thank the reviewers of the 4th edition of Psychology: Core Concepts and hope that they will recognize their valued input in all that is good in this text:

Lynn Haller, Morehead State University Carol Hayes, Delta State Richard Mascolo, El Camino College Nancy Mellucci, Los Angeles Community College District

Ginger Osborne, Santa Ana State Vernon Padgett, Rio Hondo College Mark Shellhammer, Fairmont State College

We would lastly like to thank reviewers of our past editions for their input and insight:

Gordon Allen, Miami University Beth Barton, Coastal Carolina Community College Linda Bastone, Purchase College, SUNY Michael Bloch, University of San Francisco Susan Beck, Wallace State College John H. Brennecke, Mount San Antonio College T. L. Brink, Crafton Hills College Sally S. Carr, Lakeland Community College Saundra Ciccarelli, Gulf Coast Community College Authur Gonchar, University of LaVerne Peter Gram, Pensacola Junior College Mary Elizabeth Hannah, University of Detroit Carol Hayes, Delta State University Peter Hornby, SUNY Plattsburgh Laurel Krautwurst, Blue Ridge Community College Judith Levine, SUNY Farmingdale Margaret Lynch, San Francisco State University Marc Martin, Palm Beach Community College Steven Meier, University of Idaho Yozan Dirk Mosig, University of Nebraska Melinda Myers-Johnson, Humbolt State University Michael Nikolakis, Faulkner State College Faye Plascak-Craig, Marian College Chris Robin, Madisonville Community College Christina Sinisi, Charleston Southern University Mario Sussman, Indiana University of Pennsylvania John Teske, Elizabethtown College

Robert Wellman, Fitchburg State University

If you have any recommendations of your own that we should not overlook for the next edition, please write to us! Address your comments to:

> Dr. Ann Weber Department of Psychology, CPO #1960 **UNC** at Asheville Asheville, NC 28804-8508

or send e-mail to:

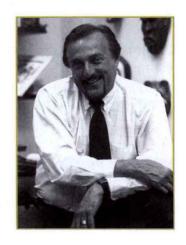
weber@unca.edu

Thanks to all of our colleagues whose feedback has improved our text. Thanks also to all instructors of this most-difficult-to-teach course for taking on the pedagogical challenge and conveying to students their passion about the joys and relevance of psychological science and practice.

ABOUT THE AUTHORS

Phil Zimbardo

Philip Zimbardo, Ph.D., Stanford University professor, has been teaching the Introductory Psychology course for nearly 50 years and has been writing the basic text for this course, as well as the Faculty Guides and Student Workbooks, for the past 35 years. In addition, he has helped to develop and update the PBS-TV series, *Discovering Psychology*, that is used in many high school and university courses both nationally and internationally. He has been called the "Face and Voice of Psychology" because of this popular series and his other media presentations. Zimbardo also loves to conduct and publish research on a wide variety of subjects, as well as teaching and engaging in public and social service activities. He has published more than 300 professional and popular articles and chapters and 50 books of all kinds. He is currently engaged in writing a trade book on the psychology of evil that relates his classic Stanford Prison Experiment to the abuses at Iraq's Abu Ghraib Prison. Please see these websites for more information: www.zimbardo.com, www.prisonexperiment.org, www.psychologyMatters.org.



Robert Johnson

Robert Johnson, Ph.D, taught introductory psychology for 28 years at Umpqua Community College. He is especially interested in applying psychological principles to the teaching of psychology and in encouraging linkages between psychology and other disciplines. In keeping with those interests, Bob founded the Pacific Northwest Great Teachers Seminar, of which he was the director for 20 years. He was also one of the founders of PT@CC (Psychology Teachers at Community Colleges), serving as its executive committee chair during 2004. That same year he also received the Two-Year College Teaching Award given by the Society for the Teaching of Psychology. Bob has long been active in APA, APS, the Western Psychological Association, and the Council of Teachers of Undergraduate Psychology.

Bob loves to write about psychology almost as much as he loves to teach. Aside from his contributions as a coauthor of *Psychology: Core Concepts*, he is particularly proud of his articles in *Teaching of Psychology*. Recently he began a term as the editor of *The General Psychologist*, the newsletter of the Society for General Psychology (Division 1 of APA). And, he is working on a book that brings to light what Shakespeare had to say about psychology.

Bob and his wife live on the North Umpqua River in southern Oregon, where they can go kayaking in their front yard or bicycling in the valleys of the Cascade Mountains. In his spare time he likes making pottery and Thai curries.

Ann L. Weber

Ann L. Weber, Ph.D., is professor of psychology at the University of North Carolina at Asheville, where for almost three decades she has taught General Psychology, Social Psychology, and the Psychology of Close Relationships, among other courses. She came to UNCA after completing her undergraduate work at The Catholic University of America and graduate work at The Johns Hopkins University. *Psychology: Core Concepts* is one of her many student-oriented texts and study guides, in addition to scores of books and other writings on close relationships, loss, and grief. As a consultant, she conducts workshops on subjects from managing stress and surviving breakups to learning humor and perspective from relationships with pets. Her many recognitions for teaching include UNCA's Distinguished Teacher Award and the Outstanding Teacher Award from the International Association for Relationship Research. Currently she is writing and developing courses on psychology in film and the relationships between people and animals. She and her husband live in the mountains of western North Carolina with five cats, two dogs, and a steady stream of fostered companion animals.



xxxi