MAJOR CONTENT CHANGES

The 14th edition has been extensively revised, with updates to all major sections, reorganization of several chapters, and additions of key new material. Some of the substantive changes in this edition include the following:

CHAPTER 1: THE NATURE OF PSYCHOLOGY

- New examples of how psychology research influences policy are used to help students understand the importance of psychological research. For example, the opening vignette discusses whether a popular reading promotion program is in fact "psychologically correct."
- The coverage of the historical roots of psychology has been completely revised to emphasize connections with modern movements in psychology. For example, a new section entitled "The Subjectivist Perspective," provides strong ties to contemporary social, personality, and cultural psychology.
- A new Cutting-Edge Research feature entitled "21st-century Psychology" highlights developments in interdisciplinary approaches such as cognitive neuroscience, evolutionary psychology, cultural psychology, affective and social cognitive neuroscience, and positive psychology.
- A new section on "Literature Reviews" explains the logic of meta-analyses, which are mentioned frequently throughout the textbook.

CHAPTER 2: BIOLOGICAL FOUNDATIONS OF PSYCHOLOGY

- An opening vignette has been added to illustrate the linkage between complex psychological traits (i.e., personality) and the brain as revealed by the case of Phineas Gage.
- A section concerning evolution of behavior illustrates the operation of natural selection in the context of a behavioral trait (e.g., male aggression).

CHAPTER 3: PSYCHOLOGICAL DEVELOPMENT

- The new opening vignette illustrates the variability in both children's rate of development and parents' expectations for their development.
- A section on new research in cognitive development on children's theory of mind has been added.
- A new Cutting-Edge Research feature highlights the effects of massage therapy on the development of at-risk babies.
- Information on the genetic influences on temperament has been added.
- The coverage of adolescent development has been expanded and updated and now includes a discussion of ethnic identity development among minority youth.

CHAPTER 4: SENSORY PROCESSES

- A new introduction helps students understand the impact of research on sensation on everyday life.
- The section on sensitivity has been revised and expanded to describe more completely (a) the nature of light and (b) psychophysical procedures (the classical Stevens' power law has been added, described, and illustrated).
- A section on the signal-detection theory has been added.
- The importance of metamers in the development of trichromacy theory has been stressed.

CHAPTER 5: PERCEPTION

- The introduction is entirely changed to (a) motivate the study of perception (via the "The Tent and the Bear" story), and (b) provide an ecological perspective of what perception is used for.
- The new Cutting-Edge Research feature describes research on the use of virtual reality to diminish severe pain.
- Attention—which has been greatly expanded and connected to the Chapter 4 material—is now given its own section, thus providing a framework for viewing the remainder of the chapter. The sections on eye movements have also been expanded.
- A section on "The Binding Problem: Preattentive and Attentive Processes" has been added to the "Recognition" section.
- A section on abstraction has been added.
- The discussion of perceptual constancies has been expanded and the "Illusions" section has been integrated into it.
CHAPTER 6: CONSCIOUSNESS
- A new chapter opening vignette highlights everyday experiences of dissociation or loss of consciousness.
- Cultural and gender issues in alcohol abuse and dependence are now discussed. New coverage includes the effects of acculturation on drinking behavior among Mexican-Americans. In addition, explanations are given for men's greater consumption of alcohol compared to women.
- Research and statistics on drug abuse have been updated.
- A new Cutting-Edge Research feature focuses on the genetics of smoking.

CHAPTER 7: LEARNING AND CONDITIONING
- To illustrate basic principles in learning, an opening vignette about how to teach someone a new trick has been added.
- A new section on inhibitory conditioning is now included.
- A new section on neural mechanisms of learning and conditioning has been added.

CHAPTER 8: MEMORY
- The chapter now begins with a true-life story about the importance of understanding memory for making correct decisions in the criminal-justice system.
- The chapter is reorganized such that the traditional trichotomization of memory into sensory store, short-term store, and long-term store is clarified and emphasized. The historical roots in the Atkinson-Shiffrin theory are described.
- The relation between sensory store, attention, and short-term store is now described. In addition, classic experiments involving partial-report and temporal-integration are described.
- The section on constructive memory has been entirely reconceived to incorporate the importance of research on eyewitness testimony within the legal system.

CHAPTER 9: LANGUAGE AND THOUGHT
- A new discussion of the neural basis of language has been included.
- A new Cutting-Edge Research feature highlights decision making and the brain.
- The coverage of syntax, prototypes, the universality of prototypes and categorization have been thoroughly updated and expanded.

CHAPTER 10: MOTIVATION
- "Wanting Versus Liking," a new Cutting-Edge Research feature, highlights the work by Berridge and colleagues, which separates the brain systems for "wanting" and "liking."
- A new section on the objectification theory provides a detailed psychological explanation of how thin ideal media images can affect rates of eating disorders and other gender-related differences in mental health.
- The prelude to the Seeing Both Sides debate has been reframed to highlight how each perspective takes a different stand on nature and/or nurture, reprising on a theme of Chapter 1.

CHAPTER 11: EMOTION
- The chapter has been reorganized and a new discussion distinguishes emotions from moods.
- The discussion of cognitive appraisal has been updated by including new experimental research that supports the causal role of appraisal in emotion experiences. Coverage of nonconscious appraisal and the neurobiology of appraisals has also been updated.
- New sections on subjective experiences and thought-action tendencies emphasize the evolutionary significance of the latter.
- The new work on positive emotions has been highlighted throughout the chapter and in the Cutting-Edge Research feature.
- Updated discussions of effects of emotions on evaluations and judgment include new, paradigm-shifting work, the communicative function of facial expressions, and the facial feedback hypothesis.
- New sections about emotion regulation and gender and cultural differences in emotion have been added.
- Updated coverage of aggression now includes brain dysfunction associated with impulsive aggression, and a new meta-analysis on the impact of violent video games.

CHAPTER 12: INTELLIGENCE
- The chapter has been reorganized to focus only on intelligence, with material on personality assessment moved to Chapter 13.
• A new section on cultural issues in the assessment of intelligence discusses possible biases in intelligence tests that result in apparently lower scores among nonmajority people.
• Controversies concerning cultural issues in theories of intelligence are now included.

CHAPTER 13: PERSONALITY
• The coverage of personality assessment has been moved to this chapter.
• A new section on evolutionary theories of personality has been added.
• The discussion of defense mechanisms is now included in the section about Freudian theory.
• Coverage of projective tests has been expanded to include new data on cultural bias.
• A new section on the research on the genetics of personality has been added.
• A new Cutting-Edge Research feature addresses the notion of “changing your personality with a pill” (e.g., with Prozac).

CHAPTER 14: STRESS, HEALTH, AND COPING
• Cultural issues are now discussed more thoroughly throughout the chapter. For example, in the discussion of posttraumatic stress disorder (PTSD), we added data on differential rates by ethnic group and an expanded section on Bosnian refugees as sufferers of PTSD.
• A section on the biology of PTSD has been added.
• Coverage of the relationship between stress and immune functioning has been expanded.
• A new Cutting-Edge Research feature discusses religion and health.

CHAPTER 15: PSYCHOLOGICAL DISORDERS
• The new chapter opening vignette introduces students to psychological disorders by presenting a case study that focuses on a man with obsessive-compulsive disorder.
• A new Cutting-Edge Research feature focuses on the biology of suicide.
• Neuroimaging studies of anxiety disorders, mood disorders, and schizophrenia are highlighted in these respective sections.
• The discussion of “defining abnormality” now emphasizes cultural norms as important in defining abnormality.
• The section on anxiety disorders now includes ataque de nervios, an anxiety-like syndrome seen mostly in Latino cultures.
• The section on schizophrenia now discusses cross-cultural differences in the manifestations and prognosis of schizophrenia.

CHAPTER 16: TREATMENT OF PSYCHOLOGICAL DISORDERS
• A new opening vignette describes a man with schizophrenia and various types of treatment he and his family have found helpful.
• The introduction now includes a discussion of ancient Chinese perspectives on mental illness.
• Descriptions of medications used to treat disorders have been greatly updated.
• The new Cutting-Edge Research feature focuses on herbal treatments for mental disorders.
• The chapter has been reorganized to include a new section that provides coverage of culturally specific treatments of psychological disorders.

CHAPTER 17: SOCIAL INFLUENCE
• The new opening section introduces the “power of situations,” which is then used as a running theme throughout the chapter.
• The sections on social facilitation, deindividuation, bystander effects, and conformity have been extensively revised and updated.
• The new Cutting-Edge Research feature discusses pluralistic ignorance and college drinking.
• A reorganized and revised discussion of the Milgram obedience studies now includes a new subsection on rapidly emerging situations as an explanation for obedience. The section on ideological justification has also been updated to include mention of Islamic extremists and Jonestown followers, in addition to Nazi Germany and U.S. military personnel.
• A new section, “Self-Justification,” covers classic work on the cognitive dissonance theory and the self-perception theory in one place.
• “Institutional Norms,” another new section, reframes the classic Stanford Prison Experiment in broader terms and includes a new discussion of how
the lessons of the Stanford Prison Experiment apply to contemporary U.S. prison policies.

• The discussion of groupthink has been updated to reflect new theories that tie poor group decisions to social identity maintenance and group norms, and highlight the benefits of group diversity.

CHAPTER 18: SOCIAL COGNITION

• The new chapter opening vignette focuses on dual-process models (a.k.a. "two modes of thinking, automatic and controlled"), a focus that is woven throughout the chapter.

• A focus on several nonintuitive studies from the late 1990s, and increased coverage on race and gender stereotypes, are now included in the new section on automatic stereotype activation.

• A new section on stereotypes and inferences presents classic studies by Asch (1946) and Kelley (1950). These studies clearly show how stereotypes and advance reputations color inferences and impression formation and make connections to more recent research on inferences made about women and African Americans.

• A substantial revision of the section on self-fulfilling prophecies includes new evidence that demonstrates that self-fulfilling prophecies can occur automatically and unconsciously and a new discussion of two competing explanations for self-fulfilling prophecies of the self.

• Sections on individuation and efforts to control prejudice and stereotypes have been added.

• New sections on love and self-expansion, as well as transference effects on liking, were added to the discussion of interpersonal attraction.

• The new Cutting-Edge Research feature on culture and cognition centers around new theoretical and empirical advances by Nisbett and colleagues.