

# DEPARTMENT OF PSYCHOLOGICAL SCIENCES

## College of Arts and Sciences

Department of Psychological Sciences  
144 Kent Hall  
Kent Campus  
330-672-2166  
psych@kent.edu  
www.kent.edu/psychology

## Undergraduate Programs

- Neuroscience - B.S.
- Psychology - B.A.
- Psychology - B.S.

## Minors

- Psychology

## Graduate Programs

- Clinical Psychology - Ph.D.
- Psychological Science - M.A.
- Psychological Science - Ph.D.

## Department of Psychological Sciences Faculty

- Bartholomew, Christie L. (2003), Assistant Professor, Ph.D., Kent State University, 2014
- Ben-Porath, Yossef S. (1990), Professor, Ph.D., University of Minnesota-Twin Cities, 1989
- Black, Sarah R. (2023), Assistant Professor, Ph.D., Stony Brook University-SUNY, 2015
- Blasiman, Rachael N. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2010
- Casto, Kathleen V. (2023), Assistant Professor, Ph.D., Emory University, 2016
- Ciesla, Jeffrey (2007), Associate Professor, Ph.D., University at Albany-SUNY, 2004
- Ciesla, Shannon N. (2007), Associate Professor, Ph.D., Kent State University, 2013
- Coifman, Karin G. (2010), Professor, Ph.D., Columbia University, 2008
- Cremeans-Smith, Julie K. (1998), Professor, Ph.D., Kent State University, 2004
- Delahanty, Douglas L. (1997), Professor, Ph.D., University of Pittsburgh, 1997
- Evey, Julie A. (2018), Assistant Professor, Ph.D., Kent State University, 1998
- Flessner, Christopher A. (2011), Professor, Ph.D., University of Wisconsin, Milwaukee, 2008
- Folk, Jocelyn R. (1999), Associate Professor, Ph.D., University of South Carolina, Columbia, 1997
- Frey, Katelyn T. (2023), Assistant Professor, M.A., University of Akron, 2021
- Galati, Ashley R. (2013), Associate Professor, Ph.D., University of Kentucky, 2013
- Gere, Judith (2013), Associate Professor
- Gilman, Tracy L. (2020), Assistant Professor, Ph.D., Penn State University, 2013
- Grau, Josefina M. (1994), Associate Professor, Ph.D., University of Illinois-Chicago, 1992
- Gunstad, John J. (2005), Professor, Ph.D., Ohio University, 2002
- Hamrick, Phillip M. (2013), Associate Professor, Ph.D., Georgetown University, 2013
- Himmelstein, Mary S. (2019), Assistant Professor, Ph.D., Rutgers University, 2016
- Hughes, Joel W. (2003), Professor, Ph.D., The Ohio State University, 2001
- Jones, Bryan A. (2010), Associate Professor, Ph.D., State University of New York-Stony Brook, 2007
- Joynes, Robin L. (2000), Professor, Ph.D., Texas A&M University-Main Campus, 1998
- Keiller, Scott W. (1989), Associate Professor, Ph.D., Kent State University, 1997
- Larwin, David A. (1985), Senior Lecturer, M.A., Kent State University, 1989
- Lechner, William (2017), Associate Professor, Ph.D., Oklahoma State University, 2015
- Miller, Eric D. (1999), Associate Professor, Ph.D., University of Iowa, 1999
- Miller-Cotto, Dana (2022), Assistant Professor, Ph.D., Temple University, 2017
- Neal-Barnett, Angela M. (1989), Professor, Ph.D., DePaul University, 1988
- Sato, Amy F. (2012), Associate Professor, Ph.D., University of Wisconsin-Milwaukee, 2009
- Sciartelli, Sharon M. (2007), Professor, Ph.D., Kent State University, 1995
- Sefcek, Jon A. (2011), Associate Professor, Ph.D., University of Arizona, 2007
- Shepherd, James B. (1986), Assistant Professor, Ph.D., Kent State University, 1996
- Spitznagel, Mary Beth (2009), Professor, Ph.D., Ohio University, 2003
- Tabak, Melanie A. (2003), Professor, Ph.D., Kent State University, 2008
- Taber, Jennifer M. (2016), Associate Professor
- Thompson, Clarissa A. (2014), Professor, Ph.D., The Ohio State University, 2008
- Tomich, Patricia L. (1994), Professor, Ph.D., Kent State University, 2000
- Updegraff, Alanna S. (2012), Professor, Ph.D., University of California-Los Angeles, 2003
- Updegraff, John A. (2004), Professor, Ph.D., University of California-Los Angeles, 2002
- van Dulmen, Manfred H. (2004), Professor, Ph.D., University of Minnesota-Twin Cities, 2001
- Was, Christopher A. (2005), Professor, Ph.D., University of Utah, 2005
- Weigold, Arne (2019), Professor, Ph.D., Texas Tech University, 2008
- Zaragoza, Maria S. (1984), Professor, Ph.D., Johns Hopkins University, 1984

## Neuroscience (NEUR)

### NEUR 10100 SEMINAR IN NEUROSCIENCE 1 Credit Hour

Course provides an overview of the neuroscience field, including areas of neuroscience research, foundational principles in neuroscience, current questions and techniques, career possibilities and examples of research being conducted by neuroscience faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

### NEUR 30100 NEUROSCIENCE I 3 Credit Hours

(Crosslisted with BSCI 30100) Course covers basic principles in neuroscience, from the cellular to systems levels. Provides students a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems and motor pathways.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### NEUR 30200 NEUROSCIENCE II 3 Credit Hours

(Cross-listed with BSCI 30200) Course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. Course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control and higher order cognitive functioning.

**Prerequisite:** NEUR 30100 or BSCI 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### NEUR 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour

(Cross-listed with BSCI 30300) Accompanying laboratory for NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception. .

**Prerequisite:** NEUR 30100 or BSCI 30100 with minimum C grade.

**Pre/corequisite:** NEUR 30200 or BSCI 30200.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

### NEUR 30889 BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (ELR) 3 Credit Hours

(Cross-listed with BSCI 30889) This is an introductory sensory neuroscience course for undergraduate students. By exploring the sensory richness of Florence, Italy, students delve into the biology of their sensory systems. Through a combination of field trips, laboratory exercises, lectures and presentations, students learn how our sensory systems function to change diverse environmental signals into information that can be interpreted by the brain. Site visits are used to highlight specific sensory systems and laboratories/lectures provide the conceptual framework. Together, these experiences lay the foundation for students' understanding of vision, taste, smell, touch and hearing in the unique environment of Florence, Italy.

**Prerequisite:** Special approval.

**Schedule Type:** International Experience, Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### NEUR 40192 INTERNSHIP IN NEUROSCIENCE (ELR) 3-12 Credit Hours

Work experience and training in neuroscience under the supervision of appropriate personnel in a government agency, nonprofit organization or business.

**Prerequisite:** NEUR 30200; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-36 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### NEUR 40195 SPECIAL TOPICS IN NEUROSCIENCE 1-3 Credit Hours

Topics in neuroscience vary per course offering.

**Prerequisite:** NEUR 30200.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter

### NEUR 40196 INDIVIDUAL INVESTIGATION IN NEUROSCIENCE 1-3 Credit Hours

(Repeatable for credit) Research study under the guidance of a neuroscience faculty member and under the direction of a Biological Sciences faculty mentor.

**Prerequisite:** NEUR 30200; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

### NEUR 40429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours

(Cross-listed with BSCI 40429) (Slashed with BSCI 50429 and BSCI 70429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.

**Prerequisite:** BSCI 30130 or BSCI 40430 or NEUR 30100.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NEUR 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**  
 (Cross-listed with PSYC 47387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. This course introduces students to the behavioral effects of psychoactive therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.  
**Prerequisite:** PSYC 11762.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

## Psychology (PSYC)

**PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours**  
 Introduction to the scientific approach to understanding human behavior and mental processes such as emotions, perceptions and cognitions. Topics may include personality, social and environmental factors, biological aspects of behavior and the experience of emotion and psychological disorders.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**PSYC 20651 CHILD PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours**  
 A review of the data, concepts and theories of psychology that contribute to the understanding of child development from conception to age 14.  
**Prerequisite:** PSYC 11762.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**PSYC 21211 PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) 3 Credit Hours**  
 A review of theories, concepts and data that contribute to the understanding of human adjustment. Topics may include the following: personality, stress and coping, transitions from adolescence to adulthood, psychological disorders and psychotherapy.  
**Prerequisite:** PSYC 11762.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I 3 Credit Hours**  
 Application of quantitative, statistical methods in psychological research. Descriptive and inferential methods (includes ANOVA, t-test and correlation).  
**Prerequisite:** PSYC 11762.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 22221 MULTICULTURAL PSYCHOLOGY (DIVD) 3 Credit Hours**  
 Examination of areas of psychology upon which diversity issues have a bearing and focused study of psychological issues relevant to African-American, Asian-American, Hispanic/Latino American and American Indian groups.  
**Prerequisite:** PSYC 11762.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Diversity Domestic, Transfer Module Social Sciences

**PSYC 30005 CAREER PATHWAYS IN PSYCHOLOGY 1 Credit Hour**  
 Designed to equip students with a better understanding of the career pathways available to them in psychology at the bachelor's and graduate level. Using a combination of videos, articles and activities, students learn about many different topics and strategies related to careers and the graduate school application process.  
**Prerequisite:** PSYC 11762.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter

**PSYC 30111 FORENSIC PSYCHOLOGY 3 Credit Hours**  
 Surveys major areas of forensic psychology, which focuses on the application of the science and profession of psychology to legal settings. Topics include roles and responsibilities of forensic psychologists, forensic assessment, psychological theories of criminal behavior, law enforcement psychology and eyewitness testimony.  
**Prerequisite:** PSYC 11762.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 30651 ADOLESCENT PSYCHOLOGY 3 Credit Hours**  
 Students review the theories, concepts and data that contribute to the understanding of the physical, intellectual, educational, personality and social development of adolescents in contemporary society.  
**Prerequisite:** PSYC 11762.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Social and Behavioral Sciences

**PSYC 30652 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours**  
 Processes and findings in social and personality development, with a focus on childhood and adolescence. Students examine individual differences, as well as developmental changes, in social function and personality.  
**Prerequisite:** PSYC 11762; and HDF 24012 or PSYC 20651.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 30655 CHILDREN'S THINKING 3 Credit Hours**

Focuses on how children's cognitive processes and mental representations change from infancy to early adulthood. Theoretical claims, empirical findings and methodological issues are critically evaluated. Topics include children's visual and auditory perception, language and literacy, learning and memory, mathematical and spatial thinking, logical and scientific reasoning, problem solving, theory of mind and social cognition.

**Prerequisite:** PSYC 11762; and HDFS 24012 or PSYC 20651.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30656 PSYCHOLOGY OF AGING 3 Credit Hours**

Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30821 PSYCHOLOGY OF MOTIVATION 3 Credit Hours**

Factors that provide the energy and direction for behaviors, emotions and cognitive processes. Seeks to answer the question "why" concerning the things people do, feel and think. A survey approach is used to include both the traditional and newly emerging concepts in motivation.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30822 SPORT PSYCHOLOGY 3 Credit Hours**

Introduction to the use of psychological theories and interventions in sport and performance settings. Can include topics such as performance anxiety, maintaining focus under pressure, motivation, leadership, among others.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31141 PERCEPTION 3 Credit Hours**

Investigates how humans detect, organize and interpret information from the environment. Considers how both biological and psychological process create and influence our perception of the world.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31282 PERSONALITY 3 Credit Hours**

A review of the data, concepts and theories of psychology that contribute to the understanding of personality.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 31498 UNDERGRADUATE RESEARCH (ELR) 1-6 Credit Hours**  
(Repeatable for credit) Individual research open to qualified students.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PSYC 31532 SOCIAL PSYCHOLOGY 3 Credit Hours**

Study of environmental/situational influences on a person's thoughts, behaviors and feelings-focus on topics such as aggression, attitudes and behaviors, conformity, helping, personal relationships and social cognition.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR) 3 Credit Hours**

The rationale, logic and procedures of scientific research in psychology with an emphasis on measurement, causal inference and research design.

**Prerequisite:** PSYC 11762 and PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PSYC 31634 ANIMAL COGNITION 3 Credit Hours**

Focuses on the nature of cognition and intelligence in nonhuman animals. Topics include animal studies of perception and attention, associative learning, memory, spatial cognition, concept formation, reasoning and language in nonhuman animals.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31684 QUANTITATIVE METHODS IN PSYCHOLOGY II 3 Credit Hours**

Small sample theory, analysis of variance, linear regression and nonparametric statistics (e.g. Chi Square). Course may include qualitative analyses and computer-based data analyses with SPSS software.

**Prerequisite:** PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31773 INDUSTRIAL PSYCHOLOGY 3 Credit Hours**

Application of principles, facts and theories of psychology to people at work. Includes motivation and satisfaction at work, personnel selection and placement, training and development, performance appraisal, organizational development, quality of work life, ergonomics and consumer psychology.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40111 PSYCHOPATHOLOGY 3 Credit Hours**

Survey of the definitions as well as the biological, psychological and sociocultural causes of various psychological disorders. Illustrations of these disorders with cases. Overview of treatment approaches to these disorders may be included.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 40112 PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE 3 Credit Hours**

Covers the biological, psychological and socio-cultural factors influencing the development of psychological disorders in children and adolescents. Emphasis is placed on conceptual and research issues and the application of knowledge to understanding diagnosis and case studies of specific disorders.

**Prerequisite:** PSYC 11762; and HDF 24012 or PSYC 20651 or PSYC 30651; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40231 PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

Introduction to psychometrics and test theory. Use and basic interpretation of intellectual and personality tests. Skills in using tests at a professional level not given.

**Prerequisite:** PSYC 11762 and PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 50382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** PSYC 20651; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40383 INTRODUCTION TO CLINICAL PSYCHOLOGY 3 Credit Hours**

Application of psychological principles and techniques to the problems of the individual. Course is designed to introduce the field of clinical psychology, including models of understanding abnormal behavior, treatment of individuals and ethics and professional issues.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40445 COGNITIVE PSYCHOLOGY 3 Credit Hours**

Covers the mental processes that underline human thought and behavior, such as attention, memory, comprehension, reasoning, problem-solving and language. Considers established and current theoretical models, research methods and experimental results.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40446 COGNITIVE NEUROSCIENCE 3 Credit Hours**

Covers the cognitive and neural processes that underlie vision, attention, spatial processing, memory, language, social processes, executive functioning and action. Introduces basic brain structure and the behavioral and functional imaging techniques used to study the brain bases of cognition. Data from patients with neurological disorders such as Alzheimer's, aphasia, amnesia are also examined.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40461 PSYCHOLOGY OF LANGUAGE 3 Credit Hours**

Investigates psychological processes involved in language production, comprehension and development. Within each broad area emphasis is on theories, psychological experiments, key findings and the relationships between theory, method and data.

**Prerequisite:** PSYC 11762 and PSYC 40445.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40625 DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD) 3 Credit Hours**

A life-span, developmental model is used to analyze the changes that occur with age in gender-related role performance and identity formation.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PSYC 40974 HISTORY OF PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 50974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems, theories and fundamental issues with which psychologists have concerned themselves in past and contemporary stages of the science.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41043 BASIC LEARNING PROCESSES 3 Credit Hours**

Examination of basic principles of Pavlovian conditioning, instrumental conditioning, animal learning and memory processes and animal cognition. Emphasis on major empirical phenomena derived from research with animals with reference to related psychological processes in humans.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41363 BIOPSYCHOLOGY 3 Credit Hours**

Rigorous course covering the relationship between brain and behavior at the physiological, chemical and anatomical levels. Focuses on the association between the central nervous system and various processes and behaviors such as learning, emotions, neurological disorders and psychopathology. Students with no background or coursework in biological science should plan to devote considerable time to mastering the relevant concepts for this course (e.g., structure and function of neurons).

**Prerequisite:** PSYC 11762; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41364 DRUGS AND BEHAVIOR 3 Credit Hours**

Provides an overview of drug taking in society, the actions of drugs in the body and the effects of drugs on behavior. Focus is on drugs and the nervous system, psychopharmacology and actions and side effects of such drugs as alcohol, opiates, stimulants, marijuana, hallucinogens, depressants and performance-enhancing drugs. Particular focus is on medications for psychiatric disorders, abuse-potential and the causes of addiction, dependence and relapse.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 51395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41492 INTERNSHIP IN PSYCHOLOGY (ELR) 1-6 Credit Hours**

(Repeatable for credit) Application of psychological knowledge and skills in applied settings. Allows academic credit for participation as an intern at approved internship sites, including social service, non-profit agencies, government agencies and hospital settings.

**Prerequisite:** 9 credit hours of psychology courses; and minimum 3.000 overall GPA; and psychology major; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-42 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PSYC 41495 SPECIAL TOPICS IN PSYCHOLOGY 1-3 Credit Hours**

(Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of research theory or methodology may be covered. Specific topics announced.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PSYC 41498 INDIVIDUAL INVESTIGATION (ELR) 1-6 Credit Hours**

(Repeatable for maximum 16 credit hours) Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PSYC 41573 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/CLINICAL (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content varies with instructor.

**Prerequisite:** PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41574 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in cognitive psychology or human/animal learning. Specific content varies with instructor.

**Prerequisite:** PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41581 HEALTH PSYCHOLOGY 3 Credit Hours**

Role of psychological and social factors in health and illness, typically covering three general areas: (1) psychological factors affecting disease, (2) psychological and social consequences of illness and (3) psychotherapeutic interventions.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41584 THE PSYCHOLOGY OF EXERCISE 3 Credit Hours**

Provides an introduction to exercise psychology, which is the application of psychology to promote, maintain, enhance and explain the parameters of exercise. Course introduces students to the cutting-edge research and practical application of exercise psychology. Topics include use of psychological theory to predict adoption and adherence to exercise behavior; social and personality influences on exercise behavior; research on effectiveness of various exercise interventions; and consequences of exercise, including mental health states such as depression and anxiety, emotional well-being, self-esteem, self-concept, health-related quality of life and cognition.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 51595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41901 WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour**

Writing-intensive course taken in conjunction with a 3-credit-hour, upper-division psychology course (may not be taken with PSYC 31498, PSYC 41498, PSYC 41573, PSYC 41574 or PSYC 41993).

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41980 RESEARCH WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour**

Writing-intensive course taken in conjunction with PSYC 31574.

**Pre/corequisite:** PSYC 31574.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit) Specific topic varies per course offering.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 42574 ADVANCED RESEARCH METHODS 3 Credit Hours**

Course helps students integrate information learned in previous courses to better understand the process of conducting research in the field of psychology. Through hands-on experiences, students use basic statistical analyses to answer hypotheses; review scientific literature and generate hypotheses; test hypotheses using a dataset and present research findings.

**Prerequisite:** PSYC 31574; and minimum 3.200 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43001 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with PSYC 53001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Minimum 3.250 overall GPA; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 53002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Minimum B grade in BSCI 30140 or BSCI 30156 or BSCI 30520 or PSYC 41363; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 53003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** BSCI 30520 or PSYC 41363 with a minimum B grade; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 47385 BROKEN BRAINS: INTRODUCTION TO CLINICAL NEUROPSYCHOLOGY 3 Credit Hours**

Clinical neuropsychology is the study of brain-behavior relationships or the ways in which the brain allows people to think, feel and behave in their everyday life. Course introduces students to cutting-edge research into the inner workings of the brain in both healthy individuals and those with neurological disorders (e.g. Alzheimer's disease, brain injury, ADHD, bipolar disorder). Topics include organization of the brain; how people learn, pay attention and solve problems; brain plasticity; neurological disorders; and neuropsychological assessment.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 57387 and PSYC 77387) (Cross-listed with NEUR 47387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 50382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 50974 HISTORY OF PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems theories and fundamental issues with which psychologists have concerned themselves in past and contemporary states of the science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit) Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 53001 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with PSYC 43001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 53002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 43002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 53003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 43003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 57387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 47387 and PSYC 77387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 60105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours**  
(Slashed with PSYC 70105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours**

(Slashed with PSYC 70110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours**

(Slashed with PSYC 70170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60192 INTEGRATION PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.

**Prerequisite:** PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours**

(Slashed with PSYC 70273) Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.

**Prerequisite:** PSYC 60272; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours**

(Slashed with PSYC 70274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.

**Prerequisite:** PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60275 BEHAVIORAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.

**Prerequisite:** PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Applied aspects of material presented in PSYC 60272. Emphasis on administering, scoring and interpreting major assessment tools.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Corequisite:** PSYC 60272.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60326 CLINICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70326) Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention treatment and public policy.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours**

(Slashed with PSYC 70371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours**

(Slashed with PSYC 70375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

**Prerequisite:** PSYC 60371 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60376 CHILD PSYCHOTHERAPY 3 Credit Hours**

(Slashed with PSYC 70376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory, technique and research.

**Prerequisite:** PSYC 60371; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 70395) Advanced-level consideration of selected content areas in assessment, psychotherapy psycho pathology professional issues and community psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 60453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70453) Information-processing approaches to human thought. Focus on processes used to transform store manipulate and retrieve sensory input. Topics include attention pattern recognition memory and language.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours**

(Repeatable for credit) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**PSYC 60792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques, situations and issues.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Corequisite:** PSYC 60371.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 70895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 60950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours**

(Slashed with PSYC 70950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61054 LEARNING AND CONDITIONING 3 Credit Hours**

(Slashed with PSYC 71054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena particularly as these are exemplified in animal models of behavior.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61260 THEORIES OF PERSONALITY 3 Credit Hours**

(Slashed with PSYC 71260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** PSYC 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 71350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits may be applied toward meeting degree requirements with department approval and when satisfactory grade is given.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours**

(Slashed with PSYC 71548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61580 SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 71580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours**

(Slashed with PSYC 71651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours**

(Slashed with PSYC 71654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61685 CLINICAL RESEARCH METHODS 3 Credit Hours**

(Slashed with PSYC 71685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6  
Credit Hours**

(Repeatable for credit) Workshop topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 62392 CLINICAL PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 62492 ADVANCED PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.

**Prerequisite:** PSYC 60192 and PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 62685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3  
Credit Hours**

(Slashed with PSYC 72685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours**

(Slashed with PSYC 60105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3  
Credit Hours**

(Slashed with PSYC 60110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3  
Credit Hours**

(Slashed with PSYC 60170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70192 INTEGRATION PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.

**Prerequisite:** PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3  
Credit Hours**

(Slashed with PSYC 60272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3  
Credit Hours**

(Slashed with PSYC 60273) Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.

**Prerequisite:** PSYC 70272; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3  
Credit Hours**

(Slashed with PSYC 60274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.

**Prerequisite:** PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70275 BEHAVIORAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 60275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.

**Prerequisite:** PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours**  
(Slashed with PSYC 60276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Applied aspects of material presented in PSYC 70272. Emphasis on administering, scoring and interpreting major assessment tools.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Corequisite:** PSYC 70272.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70326 CLINICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60326) Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention treatment and public policy.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours**

(Slashed with PSYC 60371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours**

(Slashed with PSYC 60375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

**Prerequisite:** PSYC 70371 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70376 CHILD PSYCHOTHERAPY 3 Credit Hours**

(Slashed with PSYC 60376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory technique and research.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40382 and PSYC 50382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70392 SUPERVISED CLINICAL EXPERIENCE 1-3 Credit Hours**

(Repeatable for credit) Post-practicum, psychological service provision and/or research activities in institution or agency under supervision of licensed psychologist and by arrangement of department of psychology.

**Prerequisite:** PSYC 72392; and doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 60395) Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 70413 COGNITIVE NEUROPSYCHOLOGY 3 Credit Hours**

The effect of brain injury and anomalous neurological development on cognitive skills such as language, perception and memory are explored.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60453) Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate and retrieve sensory input. Topics include attention, pattern recognition, memory and language.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours**

(Repeatable for credit) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**PSYC 70604 COGNITIVE DEVELOPMENT 3 Credit Hours**

Examination of theories and research concerning changes in memory, perception, thought and language over the life span.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70615 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours**

Examination of theories and research in social development, with a focus on how personal relationships influence personality development.

**Prerequisite:** Clinical psychology or psychological Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques situations and issues.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 60895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 70950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours**

(Slashed with PSYC 60950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71054 LEARNING AND CONDITIONING 3 Credit Hours**

(Slashed with PSYC 61054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71260 THEORIES OF PERSONALITY 3 Credit Hours**

(Slashed with PSYC 61260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71307 PSYCHOBIOLOGICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

An introduction to non-neural aspects of psychobiology, with emphasis on psycho-endocrinology, psychoimmunology and the psychobiologic aspects of disease.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 61350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 51395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

- PSYC 71507 PSYCHOSOCIAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**  
Examines concepts of disease and their implications for health. Emphasizes psychosocial stress in disease etiology and psychological factors influencing illness recovery.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- PSYC 71548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours**  
(Slashed with PSYC 61548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- PSYC 71580 SOCIAL PSYCHOLOGY 3 Credit Hours**  
(Slashed with PSYC 61580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- PSYC 71595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**  
(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 51595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology related to counseling careers. Topic varies per course offering.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- PSYC 71651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours**  
(Slashed with PSYC 61651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- PSYC 71654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours**  
(Slashed with PSYC 61654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.  
**Prerequisite:** PSYC 71651; and clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- PSYC 71685 CLINICAL RESEARCH METHODS 3 Credit Hours**  
(Slashed with PSYC 61685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- PSYC 71894 COLLEGE TEACHING OF PSYCHOLOGY 3 Credit Hours**  
(Repeatable for maximum 6 credit hours) Training and experience in college teaching.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Satisfactory/Unsatisfactory
- PSYC 71993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**  
(Repeatable for credit) Workshop topic varies per course offering.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-6 other  
**Grade Mode:** Satisfactory/Unsatisfactory
- PSYC 72392 CLINICAL PRACTICUM 1-3 Credit Hours**  
(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP
- PSYC 72445 MULTIVARIATE STATISTICS 3 Credit Hours**  
Intended to cover two major multivariate statistical techniques in psychology: structural equation modeling (SEM) and hierarchical linear modeling (HLM).  
**Prerequisite:** PSYC 71654 and PSYC 72445; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 72492 ADVANCED PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.

**Prerequisite:** PSYC 70192 and PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 72685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours**

(Slashed with PSYC 62685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73001 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with PSYC 43001 and PSYC 53001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 43002 and PSYC 53002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 43003 and PSYC 53003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 77387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 47387 and PSYC 57387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 80391 SEMINAR IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar devoted to detailed study of various topics in field of clinical psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 80491 SEMINAR IN COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in cognitive psychology. Specific topics will be announced in schedule of classes.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 80501 PSYCHOMETRIC THEORY AND MEASUREMENT 3 Credit Hours**

This course is designed to provide an in-depth introduction to basic elements of psychometric theory. This includes topics of scaling (for stimuli and persons), (b) classical test theory and its approach to test reliability, (c) generalizability theory and its approach to test reliability, (d) principles and procedures for investigating test validity, (e) statistical issues of using tests for selection and classification (including diagnosis), (f) approaches to item analysis including item response theory, and (g) approaches to test construction.

**Prerequisite:** PSYC 71651 and PSYC 71654; and doctorate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 80502 STRUCTURAL EQUATION MODELING 3 Credit Hours**

This course is designed to provide an in-depth introduction to the statistical technique of structural equation modeling (SEM). The course starts with an overview of the goals of SEM, basic terminology and conceptual issues, and basic requirements for conducting this type of analysis. Core analytic techniques (path analysis, confirmatory factor analysis, and latent variable modeling) will be discussed and conducted, and more advanced analysis techniques will also be briefly introduced. The course also involves learning the use of the statistical software MPlus.

**Prerequisite:** PSYC 71651 and PSYC 71654; and doctorate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 80503 HIERARCHICAL LINEAR MODELING 3 Credit Hours**

This course is an upper-level graduate seminar intended to introduce students to the use of Hierarchical (Multilevel) Linear Models in psychological research. This class will focus on developing a thorough conceptual understanding and the ability to implement this knowledge by conducting analyses. This includes such topics as the analysis of persons nested within groups, as well as the analysis of repeated measures within persons which itself includes analysis of Ecological Momentary Assessment data and growth analyses.

**Prerequisite:** PSYC 61651 or PSYC 71651; and PSYC 61654 or PSYC 71654; and doctorate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 81091 SEMINAR IN LEARNING AND BIOPSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in learning and biopsychology. Specific topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and doctorate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** PSYC 81199; and doctorate standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students. Credits may be applied toward degree with department approval.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81591 SEMINAR IN PERSONALITY AND SOCIAL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in areas of social psychology. Specific topics will be announced in schedule of classes.

**Prerequisite:** Doctoral standing in psychology.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81691 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours**

(Repeatable for credit) Seminar on applications of quantitative methods within various content areas of psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter