

# DEPARTMENT OF PSYCHOLOGICAL SCIENCES

**College of Arts and Sciences**  
Department of Psychological Sciences  
144 Kent Hall  
Kent Campus  
330-672-2166  
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www.kent.edu/psychology

## Undergraduate Programs

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

## Minors

- Psychology

## Graduate Programs

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

## Department of Psychological Sciences Faculty

- Ben-Porath, Yossef S. (1990), Professor, Ph.D., University of Minnesota-Twin Cities, 1989
- Betz, Brian D. (1991), Associate Professor, Ph.D., Ohio University, 1987
- Blasiman, Rachael N. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2010
- Ciesla, Jeffrey (2007), Associate Professor, Ph.D., State University of New York-Buffalo, 2004
- Ciesla, Shannon N. (2007), Assistant Professor, Ph.D., Kent State University, 2013
- Coifman, Karin G. (2010), Associate Professor, Ph.D., Columbia University, 2008
- Cremeans-Smith, Julie K. (1998), Associate Professor, Ph.D., Kent State University, 2004
- Crowther, Janis H. (1980), Professor, Ph.D., University of Vermont, 1980
- DeCapito, Alberta L. (1985), Senior Lecturer
- Dunlosky, John T. (2004), Professor, Ph.D., University of Washington, 1993
- Flessner, Christopher A. (2011), Assistant Professor, Ph.D., University of Wisconsin-Milwaukee, 2008
- Folk, Jocelyn R. (1999), Associate Professor, Ph.D., University of South Carolina-Columbia, 1997
- Fountain, Stephen B. (1984), Professor, Ph.D., Johns Hopkins University, 1981
- Fox-Cardamone, Donna Lee (1990), Associate Professor, Ph.D., Miami University, 1990
- Fresco, David M. (2001), Professor, Ph.D., University of North Carolina-Chapel Hill, 1999
- Galati, Ashley R. (2013), Assistant Professor, Ph.D., University of Kentucky, 2013
- Gere, Judith (2013), Assistant Professor
- Grau, Josefina M. (1994), Associate Professor, Ph.D., University of Illinois-Chicago, 1992
- Gunstad, John J. (2005), Professor, Ph.D., Ohio University, 2002
- Hughes, Joel W. (2003), Professor, Ph.D., The Ohio State University, 2001
- Jasnow, Aaron (2011), Associate Professor, Ph.D., Georgia State University, 2002
- Jones, Bryan A. (2010), Assistant Professor, Ph.D., State University of New York-Stony Brook, 2007
- Joynes, Robin L. (2000), Associate Professor, Ph.D., Texas A&M University, 1998
- Keiller, Scott W. (1989), Assistant Professor, Ph.D., Kent State University, 1997
- Larwin, David A. (1985), Senior Lecturer, M.A., Kent State University, 1989
- Lechner, William (2017), Assistant Professor, Ph.D., Oklahoma State, 2015
- Merriman, William E. (1985), Professor, Ph.D., University of Minnesota-Twin Cities, 1984
- Miller, Eric D. (1999), Associate Professor, Ph.D., University of Iowa, 1999
- Moore, Zachariah (2003), Assistant Professor, Ph.D., Kent State University, 2006
- Neal-Barnett, Angela M. (1989), Professor, Ph.D., DePaul University, 1988
- Rawson, Katherine A. (2004), Professor, Ph.D., University of Colorado-Boulder, 2004
- Riccio, David C. (1965), Professor
- Sato, Amy F. (2012), Assistant Professor, Ph.D., University of Wisconsin-Milwaukee, 2009
- Sciartelli, Sharon M. (2008), Associate Professor, Ph.D., Kent State University, 1995
- Sefcek, Jon A. (2011), Assistant Professor, Ph.D., University of Arizona, 2007
- Shepherd, James B. (1986), Assistant Professor, Ph.D., Kent State University, 1996
- Spitznagel, Mary Beth (2009), Associate Professor, Ph.D., Ohio University, 2003
- Tabak, Melanie (2003), Assistant Professor
- Thompson, Clarissa A. (2014), Associate Professor, Ph.D., The Ohio State University, 2008
- Tkacz, Sharon (1993), Associate Professor, Ph.D., Bowling Green State University, 1981
- Tomich, Patricia L. (1994), Associate Professor, Ph.D., Kent State University, 2000
- Updegraff, Alanna S. (2012), Assistant Professor, Ph.D., University of California-Los Angeles, 2003
- Updegraff, John A. (2004), Associate Professor, Ph.D., University of California-Los Angeles, 2002
- Van Dulmen, Manfred H. (2004), Professor, Ph.D., University of Minnesota-Twin Cities, 2001

- Wagor, Walter F. (2010), Professor
- Was, Christopher A. (2005), Associate Professor, Ph.D., University of Utah, 2005
- Wildman, Beth G. (1982), Professor, Ph.D., University of North Carolina-Chapel Hill, 1977
- Zaragoza, Maria S. (1984), Professor and Department Chair, Ph.D., Johns Hopkins University, 1984

## 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) (KSS) 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, Kent Core Social Sciences, 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 school level. Using a combination of videos, articles, and activities, students will 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

A review of the theories, concepts and data that contribute to our 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

### PSYC 30652 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours

Processes and findings in social and personality development, with a focus on childhood and adolescence. Will include the examination of individual differences as well as developmental changes in social function and personality.

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

**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 PSYC 20651 or HDFS 24012.

**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 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 a maximum 16 credit hours) Individual research open to qualified students. See Arts and Sciences and psychology major/minor requirements for applicability repeatable limits.

**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 our own and others' 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). This course may include qualitative analyses and computer based data analyses with SPSS.

**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 ABNORMAL PSYCHOLOGY 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 PSYC 20651 or PSYC 30651 or HDFS 24012; 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. This 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 and others are also be 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 which 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**

(Slashed with PSYC 51395 and PSYC 71395) (Repeatable for Credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topics announced.

**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. Open to psychology majors only.

**Prerequisite:** 9 credit hours in psychology; 3.000 GPA overall; and Junior standing and special approval.

**Schedule Type:** Practicum or Internship

**Contact Hours:** 7-42 other

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

**Attributes:** Experiential Learning Requirement

**PSYC 41495 SPECIAL TOPICS IN PSYCHOLOGY 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:** Junior standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

(Repeatable for a maximum of 16 credit hours) Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography. See Arts and Sciences and psychology major/minor requirements for applicability repeatable limits.

**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**

Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content varies with instructor. Repeatable once with instructor, and departmental permission if topic is different.

**Prerequisite:** PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 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 once for credit with instructor and departmental permission if topic is different) 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; 3.200 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. This course will introduce 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**

(Slashed with PSYC 51595 and PSYC 71595) (Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Special topics to be announced.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**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 41990 WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour**

Writing-intensive course taken in conjunction with a 3-credit-hour, upper-division psychology course (except PSYC 31498, 41498, 41573, 41574 or 41993).

**Prerequisite:** Special approval.

**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) Variable topic offered as need arises. Specific topics will be announced in the schedule of classes.

**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**

This 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 undertake the following: (1) Using basic statistical analyses to answer hypotheses; (2) Reviewing the scientific literature and generating hypotheses; (3) Testing hypotheses using a dataset; (4) Presenting research findings.

**Prerequisite:** PSYC 31574.

**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 70701) This course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging, and topics of clinical relevance. 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 is required.

**Prerequisite:** Minimum 3.250 overall GPA; 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 73002; Cross-listed with BMS 50702 and BMS 70702) This 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. 250 overall GPA; and Junior standing; and special approval from instructor

**Prerequisite:** Minimum B grade in BSCI 30140 or BSCI 30156 or BSCI 30520 or PSYC 41363; and minimum 3.

**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) This course examines the neural and molecular mechanisms underlying learning and memory formation. Cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps are covered. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. The course covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Minimum B grade in BSCI 30520 or PSYC 41363; and minimum 3.250 overall GPA; and Junior standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 44383 THE MIND OF A CHAMPION: INTRODUCTION TO SPORT PSYCHOLOGY 3 Credit Hours**

Sport psychology is the science dedicated to understanding psychological factors that influence athletic performance and is used by elite athletes in all sports to boost their performance. This course will introduce students to the cutting-edge research and practical application of sport psychology. Topics include: Role of personality and motivation in sports; leadership and team dynamics; methods to improve athletic performance and psychological benefits of sports and exercise.

**Prerequisite:** PSYC 11762.

**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 us to think, feel, and behave in our everyday life. This course will introduce 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 will include: Organization of the brain; how we 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) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. This course will introduce students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. The course will cover general principles of neuropsychopharmacology, nervous system structure in relation to behavior and mind, brain and behavioral systems that are impacted 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**  
(Slashed with PSYC 41395 and PSYC 71395) (Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topics to be announced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**  
(Slashed with PSYC 41595 and PSYC 71595) (Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Special topics to be announced.

**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) Variable topics offered as need arises to train in specific area of field. Specific topics will be announced in schedule of classes.

**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) This course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging, and topics of clinical relevance. 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 is required.

**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) This 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 will also be covered. Students should contact the instructor for permission to enroll.

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

**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) This course examines the neural and molecular mechanisms underlying learning and memory formation. Cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps are covered. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. The course covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

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

**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. This course will introduce students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. The course will cover general principles of neuropsychopharmacology, nervous system structure in relation to behavior and mind, brain and behavioral systems that are impacted 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 will learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.

**Prerequisite:** Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.

**Prerequisite:** Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

An examination of the etiology, symptomology and theoretical models of adult psychopathology.

**Prerequisite:** Graduate status in Psychology.

**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 6/70292 and PSYC 6/70792 and Graduate standing in Psychology.

**Schedule Type:** Lecture, Practicum or Internship

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-S/U-IP

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

Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students will also become familiar with major psychological tests.

**Prerequisite:** Graduate standing in psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

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 6/70272 and Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

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 6/70272 and PSYC 6/70292; and Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60275 BEHAVIORAL ASSESSMENT 3 Credit Hours**

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 6/70272 and PSYC 6/70292; and Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.

**Prerequisite:** Graduate standing in Psychology.

**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 6/70272. Emphasis on administering, scoring and interpreting major assessment tools.

**Prerequisite:** Concurrent enrollment in PSYC 6/70272; and Graduate standing in Psychology.

**Schedule Type:** Practicum or Internship

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-S/U-IP

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

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:** Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



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

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:** Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

Introduction to psychotherapy with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.

**Prerequisite:** Graduate standing in psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

**Prerequisite:** PSYC 6/70371 and PSYC 6/70292; and Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60376 CHILD PSYCHOTHERAPY 3 Credit Hours**

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 6/70371; and Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

(Repeatable for credit) Advanced-level consideration of selected content areas in assessment, psychotherapy psycho pathology professional issues and community psychology. Specific topics will be announced in schedule of classes.

**Prerequisite:** Permission and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter-S/U

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

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:** Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

(Repeatable for maximum 3 credit hours) (Slashed with PSYC 70592) 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:** Graduate standing in Psychology.

**Schedule Type:** Practicum or Internship

**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:** Graduate standing in Psychology.

**Corequisite:** PSYC 6/70371.

**Schedule Type:** Practicum or Internship

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-S/U-IP

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

(Repeatable for credit) Advanced-level consideration of selected content areas in experimental psychology. Specific topics will be announced in schedule of classes.

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

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter-S/U

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

Relationships between historical antecedents and the major contemporary systems and theories of psychology.

**Prerequisite:** Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena particularly as these are exemplified in animal models of behavior.

**Prerequisite:** Graduate standing in Psychology.

**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**

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

**Prerequisite:** Graduate standing in Psychology.

**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**

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:** Graduate standing in psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61496 INDIVIDUAL INVESTIGATION 3 Credit Hours**

(Repeatable for credit) Intensive pursuit of a subject matter beyond normal course coverage with possibility of associated research.

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

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-S/U-IP

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

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits may be applied toward meeting degree requirements if department approves and if letter grade or "S" is given.

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

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-S/U-IP

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

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:** Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61580 SOCIAL PSYCHOLOGY 3 Credit Hours**

Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.

**Prerequisite:** Graduate standing in Psychology.

**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:** Graduate standing in Psychology and special approval.

**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:** PSYC 61651 or 71651 and Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

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:** Graduate standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

(Repeatable for a maximum of 6 credit hours) Training and experience in college teaching.

**Prerequisite:** Graduate standing in Psychology (PSYC).

**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:** Practicum or Internship

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-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 6/70192 and PSYC 6/70292 and PSYC 6/70792; and Graduate standing in Psychology.

**Schedule Type:** Practicum or Internship

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

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

(Slashed with PSYC 72685) This 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:** Graduate standing in Psychology.

**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 will learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

An examination of the etiology, symptomology and theoretical models of adult psychopathology.

**Prerequisite:** Doctoral status in Psychology.

**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 6/70292 and PSYC 6/70792; and Doctoral standing in Psychology.

**Schedule Type:** Lecture, Practicum or Internship

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-S/U-IP

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

Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students will also become familiar with major psychological tests.

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

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 6/70272 and Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

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 6/70272 and PSYC 6/70292; and Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70275 BEHAVIORAL ASSESSMENT 3 Credit Hours**

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 6/70272 and PSYC 6/70292; and Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.

**Prerequisite:** Doctoral standing in Psychology.

**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 6/70272. Emphasis on administering, scoring and interpreting major assessment tools.

**Prerequisite:** Concurrent enrollment in PSYC 6/70272 and Doctoral standing in Psychology.

**Schedule Type:** Practicum or Internship

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

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

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:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

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:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

Introduction to psychotherapy with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

**Prerequisite:** PSYC 6/70371 and PSYC 6/70292; and Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70376 CHILD PSYCHOTHERAPY 3 Credit Hours**

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:** Doctoral standing in Psychology.

**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. Requires successful completion of PSYC 6/72392.

**Prerequisite:** PSYC 6/72392; Doctoral standing and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

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

(Repeatable for credit) Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology. Specific topics will be announced in schedule of classes.

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

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter-S/U

**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:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

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:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70485 READING PROCESSES 3 Credit Hours**

Analysis of basic psychological processes involved in reading with emphasis on models of the skilled reader and of learning to read. Current research is surveyed.

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

(Repeatable for maximum 3 credit hours) (Slashed with PSYC 60592)

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:** Doctoral standing in Psychology.

**Schedule Type:** Practicum or Internship

**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:** Doctoral standing in Psychology.

**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:** Doctoral standing in Psychology.

**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:** Doctoral standing in psychology.

**Schedule Type:** Practicum or Internship

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-S/U-IP

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

(Repeatable for credit) Advanced-level consideration of selected content areas in experimental psychology. Specific topics will be announced in schedule of classes.

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

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter-S/U

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

Relationships between historical antecedents and the major contemporary systems and theories of psychology.

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

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

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

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

**Prerequisite:** Doctoral standing in Psychology.

**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:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours**

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:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

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

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

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71498 SELECTED LITERATURE REVIEW 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Comprehensive literature survey and review prepared by graduate student in area of interest.

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-S/U

**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:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours**

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:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71580 SOCIAL PSYCHOLOGY 3 Credit Hours**

Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Slashed with PSYC 41595 and PSYC 51595) (Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology related to counseling careers. Special topics to be announced.

**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:** Doctoral standing in Psychology 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 61651 or 71651 and Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71685 CLINICAL RESEARCH METHODS 3 Credit Hours**

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:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71894 COLLEGE TEACHING OF PSYCHOLOGY 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Training and experience in college teaching.

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-S/U

**PSYC 71993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Training and experience in college teaching.

**Prerequisite:** Doctoral standing in Psychology.

**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:** Practicum or Internship

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-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 61651 or PSYC 71651; and PSYC 61654 or PSYC 71654; 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 6/70192 and PSYC 6/70292 and PSYC 6/70792; and Doctoral standing in Psychology.

**Schedule Type:** Practicum or Internship

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

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

(Slashed with PSYC 62685) This 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:** Doctoral standing in Psychology.

**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 70701) This course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging, and topics of clinical relevance. 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 is required.

**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) This 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 will also be covered. Students should contact the instructor for permission to enroll.

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

**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) This course examines the neural and molecular mechanisms underlying learning and memory formation. Cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps are covered. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. The course covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

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

**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. This course will introduce students to the behavioral effects of psychoactive therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. The course will cover general principles of neuropsychopharmacology, nervous system structure in relation to behavior and mind, brain and behavioral systems that are impacted 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 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-S/U

**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-S/U

**PSYC 80691 SEMINAR IN CHILD AND DEVELOPMENTAL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in child and developmental 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-S/U

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

(Repeatable for credit) Seminar on current research in learning and biopsychology. Specific topics will be announced in the schedule of classes.

**Prerequisite:** Doctoral standing in Psychology.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-S/U

**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 Doctoral 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 if department approves.

**Prerequisite:** Special approval and Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-S/U-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 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-S/U