

## Frequently Offered and **New** Psychology Courses

101. Introduction to Psychology—Application of scientific method to behavior. Areas of psychology including learning, motivation, perception, physiological, comparative, personality, abnormal, social, clinical, child development, and individual differences. 3 hours.
108. Human Sexuality—Biological and psychological bases of human sexual behavior. Genetic, hormonal, and learning foundations for development of sexual and sex-related structures and of psychosexual identity and behavior. Adult sexual structures and behavior, conception control, pregnancy, lactation and parentalism, drugs and reproduction, and sexual pathology and variances. 3 hours.
109. Drugs and Human Behavior—Historical and cultural perspectives on drug use by humans. Major classes of drugs; effects, side effects, and toxicity. Mechanisms of drug action, drug abuse, government regulations, and use of psychoactive drugs in treatment of mental disorders. 3 hours.
201. Honors Introduction to Psychology—Advanced seminar in scientific study of behavior and cognitive processes. *Prerequisite:* permission of Director of PY Honors Program. 3 hours.
212. Developmental Psychology—Human development from prenatal period to old age. Genetic and environmental determinants of behavior. Language, cognition, personality, social and emotional behavior, intelligence, and physical and sexual development. Applied areas include child rearing, childhood psychoses, and child abuse. *Prerequisite:* PY 101. 3 hours.
213. Cross-Cultural Perspectives on Child Development—Cultural differences in determinants of child development. Effects of culturally distinct approaches to child rearing and education on infant attachment, temperament, aggression, cognitive development, peer interaction, sex-role socialization, and moral reasoning. *Prerequisite:* PY 101. 3 hours.
214. Elementary Statistical Methods and Design—Descriptive and inferential statistics with emphasis on behavioral science applications. Measures of central tendency and variability, frequency distributions, probability, t-test, correlation, analysis of variance, and regression. *Prerequisite:* MA 110 or MA 102. 3 hours.
217. Laboratory for Elementary Statistical Methods and Design—Use of computers in statistical analysis of psychological research data. Laboratory component of PY 214. Required for all psychology majors. *Prerequisites:* CS 101 or equivalent knowledge; MA 110 or MA 102, and PY 214 (or concurrent enrollment). 1 hour.
218. Abnormal Psychology—Research-oriented study of different types of maladaptive behavior, including symptoms, development, classification, and treatment. *Prerequisite:* PY 101. 3 hours.
220. Contemporary Issues in Psychology—Issues of current interest in psychology. *Prerequisite:* PY 101. 1 to 3 hours.
253. Brain, Mind, and Behavior—How brain functions during dreaming, visual perception, aggression, learning and memory, sex, and language. Left versus right hemisphere specializations, recovery after brain damage, and neurological basis of illnesses such as schizophrenia, autism, and Parkinson's disease. Includes five hours of videos. *Prerequisite:* PY 101. 3 hours.
305. Medical Psychology—Psychological methods applied to health problems. Development of medical problems, psychological/behavioral treatment of medical disorders, prevention of disease, and promotion of health. *Prerequisite:* PY 101. 3 hours.

312. Advanced Developmental Psychology—Current research and theory in childhood and adolescence with focus on perceptual/cognitive and social/emotional issues. Relationship between spoken language development and learning to read, linguistic development in special populations (e.g., hearing-impaired children), applications of memory research to children's courtroom testimony, impact of preschool experience (e.g., Head Start) on academic achievement, and family and peer influence on cognitive and social development. *Prerequisite:* PY 212. 3 hours.

313. Introduction to Language Development—Children's acquisition of the ability to speak and understand their native language. Learning to read and write. Language abilities in special populations (e.g., the hearing-impaired, mentally-retarded, elderly individuals). Communication abilities in nonhumans. *Prerequisites:* PY 212 or 213. 3 hours.

315. Methods in Psychological Research—Fundamentals of experimentation with psychological phenomena. Conceptual and practical exploration of problem definition and hypothesis formation; observation, definition, and measurement; design and control of experiments for valid causal inference; quasi-experimental designs; generalization and ecological validity; explanation and interpretation of results; scientific communication. *Prerequisites:* PY 214 and PY 217. 4 hours.

318. Child and Adolescent Abnormal Psychology—Manifestations, causes, and treatment of psychological disorders from infancy through adolescence. Developmental and research perspective on these disorders with clinical and social implications. *Prerequisite:* PY 212 or PY 218. 3 hours.

319. Psychopathology and Culture—Cultural differences with respect to types of behavior viewed as abnormal and how such behaviors are classified and treated. *Prerequisite:* PY 101. 3 hours.

320. Contemporary Issues in Psychology—Issues of current interest in psychology. *Prerequisite:* PY 101. 3 hours.

325. Clinical Child Psychology—Diagnosis, prevention and treatment of psychological problems in children and adolescents. Interview techniques, behavioral and cognitive interventions, and community prevention programs. Developmental considerations emphasized. *Prerequisite:* PY 212 or 213. 3 hours.

326. Industrial/Organizational Psychology—Psychological methods applied to people at work. Selection, placement, performance appraisal, training, attitude measurement, work motivation, leadership, industrial safety, and human performance. *Prerequisite:* PY 101. 3 hours.

335. Motivation and Emotion—Psychobiological basis of eating, drinking, sleep, sex, and aggression, and the role of emotion and reinforcement in shaping these behaviors. Underlying mechanisms involved in these motivated behaviors from basic biological need (homeostasis) to abnormal conditions as occurs in eating and sleep disorders, genetic anomalies, drug addiction and violence. *Prerequisite:* PY 101. 3 hours.

353. Behavioral Neuroscience—Neurobiological basis of behavior. Central nervous system mechanisms that mediate processes such as learning, motivation, sensation, speech, and emotional behavior. *Prerequisite:* PY 101. 3 hours.

**354. Autism: Brain and Cognition**—Autism is a disorder that affects every facet of human functioning. Its multidimensional manifestation is enigmatic to researchers as well as to affected families. This course will examine the scientific research that has illuminated the nature of autism, focusing on its cognitive and biological aspects. We will examine different perspectives of thinking and various biological underpinnings of brain function, to converge on the most recent scientific consensus on the biological and psychological characterization of autism. There will be a special focus on structural and functional brain imaging studies of autism. *Prerequisite:* PY 101. 3 hours.

361. Psychology of Learning—Issues of learning in terms of current theoretical positions. Classical conditioning, instrumental conditioning, forgetting, role of motivation, and transfer of training. *Prerequisite:* PY 101. 3 hours.
363. Cognitive Psychology—Human cognitive functioning. Selective attention, information processing, models of learning, memory, perception, and free and structured thought processes. *Prerequisite:* PY 101. 3 hours.
370. Personality—Comparison of major theories of personality, including philosophy of human nature; structure, dynamics, and development of personality. *Prerequisite:* PY 101. 3 hours.
372. Social Psychology—Major theories and research in social psychology. Social perception and attribution, behavior in interpersonal relationships, and group influences on individual behavior. *Prerequisite:* PY 101. 3 hours.
375. Philosophy of Mind—(Also PHL 375.) Mind; its nature, forms, and functions. Consciousness, self-consciousness, action, belief, desire, rationality, personal identity; problems such as mindbody, psychological explanation, and freedom of will. *Prerequisite:* One previous PHL course or permission of instructor and PY 101. 3 hours.
376. Psychology and Law—Interaction between theories and applications of psychology and practice of civil and criminal law. Insanity, malpractice, competency, civil commitment, violence, jury selection, and expert-witness testimony. *Prerequisite:* PY 101. 3 hours.
380. Perception—Contemporary theory and empirical research in sensory coding of perceptual information. Sensory transduction, physiology and anatomy of sensory systems, and psychophysical measurement techniques. Visual perception, hearing and speech, smell, and taste. *Prerequisite:* PY 101. 3 hours.
390. Animal Behavior—Theoretical and applied aspects of animal behavior. Learning and natural selection, evolutionary stable strategies, reasoning, mimicry, perception and intelligence. *Prerequisite:* PY 101. 3 hours.
- 396. Teaching Practicum in Psychology**—Teaching experience in psychology courses, supervised by a faculty member. Student must have previously taken the course for which the student will work within. *Prerequisite:* permission of Director of Undergraduate Studies. (Pass/fail). 1 to 3 hours.
397. Community-Based Practicum in Psychology—Community work in various supervised settings such as Crisis Center, Department of Human Resources, etc. *Prerequisite:* permission of Director of Undergraduate Studies. (Pass/fail). 1 to 6 hours.
398. Research Practicum in Psychology—(Also GER 398.) Project or research activity supervised by faculty. *Prerequisite:* permission of Director of Undergraduate Studies. Cannot be taken pass/fail. 1 to 6 hours.
399. Psychology Honors Seminar—Seminar for honors students. Conduct of special project (PY 398) required. *Prerequisite:* permission of Director of Psychology Honors Program. 1 hour.
405. Biofeedback, Meditation, and Self-Regulation—History and current applications of biofeedback, meditation, and relaxation techniques. *Prerequisite:* PY 315. 3 hours.
412. Social Development—Contemporary theoretical models and empirical research in social development. Attachment formation in infancy, parent-child and family interactions, peer relationships, moral and pro-social development, aggression, and sex role development. *Prerequisite:* PY 212 and PY 315. 3 hours.

415. Mental Retardation and Developmental Disabilities—History, causes, treatment/education, behavioral interventions, and family issues related to mental retardation and other developmental disabilities. Psychologist as member of interdisciplinary treatment team. *Prerequisites:* PY 212 and PY 315. 3 hours.

418. Psychotherapy and Behavior Change—Different therapeutic approaches and issues relating to their effectiveness. Principles of behavior modification. *Prerequisites:* PY 218 or 319 and PY 315. 3 hours.

420. Contemporary Issues in Psychology—Issues of current interest in psychology. *Prerequisite:* PY 315. 1 to 3 hours.

425. Psychology of Aging—(Also GER 425.) Age changes in human cognition and behavior. Sensory processes, memory, intelligence, physiology and health, psychopathology, and life-span development and adjustment. *Prerequisite:* PY 212 and PY 315. 3 hours.

431. The Dynamics of Pain—Physiology, pharmacology, and anatomy of acute and chronic pain. How medical treatments relieve pain. Stress-induced analgesia, transcutaneous electrical stimulation, acupuncture, inflammation, and psychological approaches to treatment of pain. *Prerequisite:* PY 315 and PY 353. 3 hours.

453. Advanced Behavioral Neuroscience—Neurobiological and psychological research on neural systems that control behavior. Synaptic communication, regulatory behaviors, learning, memory, sensation and perception, movement, emotions, and psychopathology. *Prerequisite:* PY 335, 353 or 380 and PY 315. 4 hours.

455. Psychology of Eating Disorders—Genetic, neurochemical, developmental, and sociocultural determinants of anorexia nervosa, bulimia, binge-eating disorder, and obesity. Diagnostic, preventive, and treatment strategies. Provocative recent findings from animal research. Unusual human eating behaviors, including patterns manifested in brain trauma and genetic disorders, craving, ingestion of non-nutritive substances, and cannibalism. *Prerequisites:* PY 335 or 353 and PY 315. 3 hours.

463. Cognitive Neuroscience—Interdisciplinary study of higherorder cognitive functions in humans. Data from functional brain imaging, neurology, neuroanatomy, and neurophysiology used in study of human perception, language, learning, and memory. *Prerequisites:* PY 353, PY 363, 380 and PY 315. 3 hours.

488. Pediatric Psychology—Behavioral influence on health and illness; impact of health problems and illness on behavior and development of children and adolescents; family issues related to these interactions. *Prerequisite:* PY 212 and PY 315. 3 hours.

490. Psychology Capstone—The capstone course emphasizes the synthesis of knowledge and research skills expected of the undergraduate Psychology major. Students are guided in conducting research within a specific content area related to a 400-level Psychology seminar, in which they must be concurrently enrolled. Also includes class readings and discussions on ethical issues. Observation or community service in selected social service agencies is an integral part of the course. *Prerequisites:* PY315 and senior status, or permission of psychology advisor. Concurrent enrollment with any 400-level seminar course. 3 hours.