PSYCHOLOGY

OVERVIEW

The Ph.D. program in General/Experimental Psychology admits students in four broad areas of concentration ("clusters"): Biobehavioral Psychology; Developmental Psychology; Social Psychology; and Behavioral Psychopharmacology.

The Ph.D. program in Clinical Psychology places equal emphasis on research and clinical training. The Clinical Psychology program is fully accredited by the American Psychological Association.

The Ph.D. program in Clinical/Developmental Psychology provides students with training in the area of developmental psychopathology. Students completing the Clinical/Developmental degree meet the requirements of the Clinical program and those of the Developmental cluster in the General/Experimental program.

Further information about graduate programs can be obtained electronically from the Department of Psychological Science website, which contains details of requirements, funding opportunities, clinical and research facilities, specialty areas, ongoing research, and faculty.

Applicants must apply for the Ph.D. degree only. Students whose goal is a terminal master’s degree are not accepted.

DEGREES

- Psychology M.A.
- Psychology Ph.D.

FACULTY

Abaied, Jamie L.; Associate Professor, Department of Psychological Science; PHD, University of Illinois Urbana-Champaign
Achenbach, Thomas Max; Professor, Department of Psychiatry; PHD, University of Minnesota Twin Cities
Althoff, Robert; Associate Professor, Department of Psychiatry; MD, University of Illinois
Bouton, Mark Earhart; Professor, Department of Psychological Science; PHD, University of Washington
Burt, Keith B.; Associate Professor, Department of Psychological Science; PHD, University of Minnesota Twin Cities
Dumas, Julie Anna; Associate Professor, Department of Psychiatry; PHD, University of North Carolina
Falls, William A.; Dean, College of Arts and Sciences, Professor, Department of Psychological Science; PHD, Yale University
Fondacaro, Karen Marie; Clinical Professor, Department of Psychological Science; PHD, University of Vermont
Forehand, Rex L.; Professor, Department of Psychological Science; PHD, University of Alabama
Gaalema, Diann E.; Assistant Professor, Department of Psychiatry; PHD, Georgia Institute of Technology
Garavan, Hugh P.; Professor, Department of Psychiatry; PHD, Bowling Green State University
Green, John Thomas; Professor and Chair, Department of Psychological Science; PHD, Temple University
Guitar, Barry Estill; Professor, Department of Communication Science; PHD, University of Wisconsin Madison
Hammack, Sayamwong E.; Professor, Department of Psychological Science; PHD, University of Colorado
Harder, Valerie Susan; Assistant Professor, Department of Psychiatry; PHD, Johns Hopkins University
Heil, Sarah H.; Associate Professor, Department of Psychiatry; PHD, Dartmouth College
Higgins, Stephen Thomas; Professor, Department of Psychiatry; PHD, University of Kansas
Hoza, Betsy; Professor, Department of Psychological Science; PHD, University of Maine
Hudziak, James Joseph; Professor, Department of Psychiatry; MD, University of Minnesota Twin Cities
Hughes, John Russell; Professor, Department of Psychiatry; MD, University of Massachusetts Amherst
Murray-Close, Dianna Katharine; Associate Professor, Department of Psychological Science; PHD, University of Minnesota Twin Cities
Pinel, Elizabeth C.; Associate Professor, Department of Psychological Science; PHD, University of Texas Austin
Potter, Alexandra S.; Assistant Professor, Department of Psychiatry; PHD, University of Vermont
Price, Matthew; Assistant Professor, Department of Psychological Science; PHD, Georgia State University
Rawson, Richard; Research Professor, Department of Psychiatry; PHD, University of Vermont
Rellini, Alessandra; Associate Professor, Department of Psychological Science; PHD, University of Texas Austin
Rohan, Kelly J.; Professor, Department of Psychological Science; PHD, University of Maine
Schermorn, Alice C.; Assistant Professor, Department of Psychological Science; PHD, University of Notre Dame
Sighorn, Stacey C.; Associate Professor, Department of Psychiatry; PHD, University of Vermont
Stickle, Timothy R.; Associate Professor, Department of Psychological Science; PHD, University of Arizona
Toufexis, Donna J.; Associate Professor, Department of Psychological Science; PHD, McGill University

Courses

PSYS 211. Learning. 3 Credits.
Analysis of theory and research on the basic learning process and behavior. Prerequisites: PSYS 053 and PSYS 111.

PSYS 212. Cognition. 3 Credits.
Research and theories on the major areas within cognition: perception, attention, pattern recognition, memory, knowledge representations, mnemonic strategies, problem-solving and neurocognition. Prerequisites: PSYS 054 and PSYS 111.

PSYS 213. Motivation. 3 Credits.
Theory and research on motives, including hunger, fear, sex drive, and addiction, their influence on behavior, relationship to other psychological processes, and biological correlates. Prerequisites: PSYS 053 and PSYS 111.
PSYS 215. Physiological Psychology. 0 or 4 Credits.
Structure and function of mammalian nervous system, emphasizing neurological correlates of sensory experience and perception. Individual laboratory experience. Prerequisites: PSYS 053; PSYS 115 or NSCI 111.

PSYS 216. Psychopharmacology. 3 Credits.
Effects of drugs (both medical and recreational) on behavior. Topics such as drug effects on learning, memory, motivation, perception, emotions, and aggression. Prerequisites: PSYS 053; PSYS 115 or NSCI 111.

PSYS 217. Animal Behavior. 3 Credits.
Behavior of animals under controlled experimental conditions and in their natural environments. Consideration of evolution, development, function, and control of behavior. Prerequisites: PSYS 053; PSYS 111 or PSYS 115 or NSCI 111.

PSYS 218. Hormones and Behavior. 3 Credits.
A study of the involvement of hormones in cognition, emotion, the stress response, circadian and homeostatic mechanisms that affect mental state, psychopathology, and reproductive behavior. Prerequisites: PSYS 053; PSYS 115 or NSCI 110 or NSCI 111.

PSYS 219. Sel Topics Behavioral Neurosci. 3 Credits.
Selected topics examining the role of the central nervous system in determining behavior, including innate behaviors, arousal, motivation, learning, and memory. Prerequisites: PSYS 053; PSYS 115 or NSCI 111.

PSYS 230. Advanced Social Psychology. 3 Credits.
In-depth discussion of select topics centering on how situations influence individuals' thoughts, feelings, and behaviors. Prerequisite: PSYS 053 and PSYS 130.

PSYS 232. Self and Social Cognition. 3 Credits.
An advanced course in social psychology that covers theory and research on the self and social cognition. Prerequisites: PSYS 053 and PSYS 130.

PSYS 240. Organizational Psychology. 3 Credits.
Study of the psychological impact of macro and micro features of organizations upon leadership, decision making, workforce diversity, group process, conflict, and organizational performances. Prerequisite: PSYS 053; and PSYS 111 or PSYS 130 or PSYS 150 or PSYS 170.

PSYS 252. Emotional Devlnt & Temperament. 3 Credits.
Development of emotion and temperament from infancy through middle childhood, including links between these topics and physiology, and context (e.g. attachment, parenting, family conflict). Prerequisites: PSYS 053 and PSYS 150.

PSYS 253. Cognitive Development. 3 Credits.
Examination of research and theory concerning developmental changes in the human processing of information from infancy to adulthood centered around the work of Piaget. Prerequisites: PSYS 053 and PSYS 150.

PSYS 254. Social Development. 3 Credits.
Examination of theory and research concerning interpersonal development in humans from infancy through adulthood. Emphasizes relationships among language, cognition, and social development. Prerequisites: PSYS 053 and PSYS 150.

PSYS 256. Infant Development. 3 Credits.
Biological, cognitive, and social aspects of infant development in context; opportunities to evaluate and design research and apply knowledge to parenting, prevention, and social policy. Prerequisites: PSYS 053 and PSYS 150.

PSYS 257. Adolescence. 3 Credits.
Analysis of current theory and research in adolescent development. Covers biological, cognitive, and social changes; family, peer, and school influences; and normative and problematic development. Prerequisites: PSYS 053 and PSYS 150.

PSYS 270. Behav Disorders of Childhood. 3 Credits.
An overview of theory, research, and practice in developmental psychopathology from infancy through adolescence. The major disorders of social and emotional development reviewed. Prerequisites: PSYS 053; and PSYS 150 or PSYS 170.

PSYS 271. Intro to Clinical Psychology. 3 Credits.
Study of basic principles of interviewing, testing, assessment from life situations, and report writing. Examination of the most common approaches to psychotherapy. Prerequisites: PSYS 053 and PSYS 170.

PSYS 300. History of Psychology. 3 Credits.
Review of major theoretical and empirical developments in psychology, including schools of psychology that have influenced contemporary models of psychology. Prerequisite: Psychology graduate standing only.

PSYS 301. Faculty Seminar. 0 Credits.
Introduction to specialized areas of psychology. Prerequisite: Psychological Science Graduate standing.

PSYS 303. Seminar in Psyc Research Meth. 3 Credits.
Topics may include but are not limited to: factor analysis, discriminant function analysis, multivariate analysis of variance, advanced experimental design, and computer application in data collection and analysis. Prerequisites: Psychology graduate standing and PSYS 304.

PSYS 304. Adv Statistical Methods I. 3 Credits.
Statistical methods for evaluating psychological data. Emphasizes exploring data with respect to research hypotheses. Critical study of hypothesis tests on means, chi-square, and correlational techniques. Prerequisite: Psychological Science or Neuroscience Graduate standing only.

PSYS 305. Adv Statistical Methods II. 3 Credits.
Continuation of PSYS 304. In-depth study of the analysis of variance and multiple regression. Further study of analysis and interpretation of data from the behavioral sciences. Prerequisites: Psychology or Neuroscience graduate standing and PSYS 304.
PSYS 306. Analysis of Longitudinal Data. 3 Credits.
Statistical methods for the analysis of data collected over time, with an emphasis on linear mixed models (LMMs) in applied psychological research. Prerequisites: Psychology or Neuroscience graduate standing; and PSYS 304 and PSYS 305.

PSYS 307. Structural Equation Modeling. 3 Credits.
Introduction to confirmatory factor analysis, path analysis, and structural equation methods, with an emphasis on applied psychological research. Prerequisites: Psychology graduate standing; and PSYS 304 and PSYS 305.

PSYS 311. Seminar in Learning Theory. 3 Credits.
Review and analysis of contemporary theories of associative learning. Prerequisite: Psychology graduate standing only.

PSYS 312. Cognitive Neuroscience. 3 Credits.
Exploration of the neural bases of complex cognitive functions in humans, including memory, attention, executive functions, and consciousness, through a survey of recent journal articles. Prerequisite: Psychology or Neuroscience graduate standing only.

PSYS 313. Emotion. 3 Credits.
Analysis of research and theory on emotion from biological, psychological, cognitive, and psychosocial perspectives. Research literature considering clinical disorders of emotion will also be considered. Prerequisite: Psychology graduate standing only.

PSYS 315. Biobehavioral Proseminar. 3 Credits.
Advanced survey and analysis of behavioral and biological psychology, with special emphasis on learning theory and behavioral neuroscience. Prerequisite: Psychology and Neuroscience graduate standing only.

PSYS 316. Neuropsychopharmacology. 3 Credits.
Explores the foundations of behavior by examining the role of neurotransmitters, neuromodulators, and drugs in the production of normal and abnormal behavior. Prerequisite: Psychology or Neuroscience graduate standing only.

PSYS 319. Neurobio of Learning & Memory. 3 Credits.
Exploration of the neural bases of learning and memory, using a brain systems approach, through a survey of recent journal articles. Prerequisite: Psychology or Neuroscience graduate standing only.

PSYS 320. Animal Minds. 3 Credits.
Examination of historical and modern scientific research literature on cognition as it is represented in the behavior of animals. Considers evolutionary, behavioristic, and cognitive perspectives. Prerequisite: Psychology or Neuroscience graduate standing only.

PSYS 330. Proseminar in Exp Social Psych. 3 Credits.
Advanced analysis of experimental social psychology, including examination of social psychological theories, methods, and key research findings. Prerequisite: Psychology graduate standing only.

PSYS 332. Cognition in Social Behavior. 3 Credits.
Examination of social attribution, interpersonal set, perspectives in social encounter, and the formulation of interpersonal strategies. Prerequisite: Psychology graduate standing only.
PSYS 374. Behavior Therapy: Children. 3 Credits.
Review of literature relating to theory, practice, research. Emphasis on the evaluation of a variety of procedures applied to behavior disorders in children. Prerequisite: Psychology graduate standing only.

PSYS 375. Adult Cognitive & Behav Thry. 3 Credits.
Review of literature relating to theory, practice, research. Emphasis on the evaluation of a variety of procedures applied to behavior disorders in adults. Prerequisite: Psychology graduate standing only.

PSYS 376. Cross Culture Clin Interv/Rsrc. 3 Credits.
Issues for psychologists regarding clinical intervention and research with Black, Latino/a, Native American, Asian American, and international populations of color with an eye toward cultural competence. Prerequisite: Psychology graduate standing only.

PSYS 377. Clinical Human Neuropsychology. 3 Credits.
Clinical seminar on effects on human behavior of neocortical dysfunction. Review of theoretical, clinical approaches to brain function, emphasis on recent developments in diagnostic techniques, ensuing theoretical developments. Prerequisite: Psychology graduate standing only.

PSYS 378. Dialectic Behavior Therapy. 3 Credits.
Examines the theoretical perspectives, empirical foundations, and treatment strategies of Dialectical Behavior Therapy (DBT). DBT is a treatment specifically designed for chronically suicidal patients. Prerequisite: Psychology graduate standing only.

PSYS 380. Professional Affairs & Ethics. 3 Credits.
The origins of professions and of psychology in particular. Accreditation, laws affecting psychology, organization of the profession, licensing certification, and the code of ethics for psychology. Prerequisite: Psychology graduate standing only.

PSYS 385. Advanced Clinical Practicum. 0-1 Credits.
Year-long, 20 hours/week supervised service delivery involving psychological intervention assessment and consultation. May be repeated for credit. Prerequisite: Psychology graduate standing only.

PSYS 389. Internship in Clinical Psyc. 0 Credits.
Clinical psychology internship experience. Prerequisite: Psychology graduate standing only.

PSYS 390. Contemporary Topics. 3 Credits.
Selected topics in depth; emphasis on critical analysis of original literature. Prerequisite: Psychology graduate standing only.

PSYS 391. Master's Thesis Research. 1-18 Credits.
Research leading toward completion of the master's thesis. Prerequisite: Psychology graduate standing only.

PSYS 392. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

Discussion of current research and student research presentation in areas of concentration ("clusters"). Prerequisite: Psychology graduate standing only.

PSYS 395. Advanced Readings/Research. 1-6 Credits.
Readings, with conferences, to provide graduate students with background and specialized knowledge relating to an area in which an appropriate course is not offered. Prerequisite: Psychology graduate standing only.

PSYS 396. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles. Prerequisites: Psychology Graduate Standing Only; Instructor permission.

PSYS 491. Doctoral Dissertation Research. 1-18 Credits.
Research leading toward completion of the doctoral dissertation. Prerequisite: Psychology graduate standing only.

PSYS 492. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

PSYS 496. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.