

Psychology (PSY)

Course information contained within the Bulletin is accurate at the time of publication in June 2025 but is subject to change. For the most up-to-date course information, please refer to the Course Catalog.

PSY 5003. Advanced Statistics. 3 Credit Hours.

This course is primarily meant to prepare master's-level psychology students to conduct statistical analyses on data related to their research, and to prepare them for more advanced courses, such as multivariate statistics (PSY 8031). Topics will include linear regression, repeated-measures ANOVA, multi-factorial ANOVA, and several nonparametric alternatives to "standard" inferential tests. In addition to significance testing, this course will focus on the measurement and interpretation of effect size and power. Students will also learn how to perform data analysis using the SPSS statistical software package.

Repeatability: This course may not be repeated for additional credits.

PSY 5100. Topics: Brain, Behavior and Cognition. 3 Credit Hours.

This graduate course is to be offered for graduate students interested in the topical course designated PSY 3100 but wish to work with the instructor to earn graduate credit.

Repeatability: This course may be repeated for additional credit.

PSY 5103. Learning and Behavior Analysis. 3 Credit Hours.

A systematic introduction to the principles of behavior analysis with emphasis on their application as well as their origins in basic research.

Repeatability: This course may not be repeated for additional credits.

PSY 5104. Ethics and Ethical Conflicts in Psychological Science. 3 Credit Hours.

Psychologists are bound by an official code of conduct that includes general ethical principles, as well as specific enforceable standards for ethical conduct in research, education and training, public service, and clinical practice. This course will use a case study approach with fine-grained analyses of ethical conflicts to learn and understand the ethical standards set forth in the American Psychological Association's *Ethical Principles of Psychologists and Code of Conduct* (APA, 2010). We will consider both historical and recent cases of ethical misconduct in research, the concept of evidence-based treatment, and newly emerging ethical dilemmas in the field of cognitive neuroscience and imaging. Case studies and discussions will include ethical conduct relevant for graduate students.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites: Minimum grade of B in PSY 5791 and PSY 5891.

PSY 5791. Master's Directed Research I. 1 to 4 Credit Hour.

This course is open to students in the first year of the Master of Science in Psychological Research program.

Repeatability: This course may be repeated for additional credit.

PSY 5891. Master's Directed Research II. 1 to 4 Credit Hour.

This course is open to students in the first year of the Master of Science in Psychological Research program.

Repeatability: This course may be repeated for additional credit.

PSY 8005. Affective Neuroscience. 3 Credit Hours.

The brain is not just a thinking machine; it is also a feeling machine. This course explores the neural substrates behind emotions such as love, trust, fear, and pleasure. We will also discuss the relationship between emotions and cognition, the effect of emotions on animal and human behavior, and the biological basis of affective disorders such as anxiety and depression.

Repeatability: This course may not be repeated for additional credits.

PSY 8011. Graduate Statistics I. 3 Credit Hours.

Review of hypothesis-testing methods for means, variances, correlations, and proportions. One-way ANOVA for completely randomized, blocked, and repeated measure designs. Planned and post hoc multiple comparisons.

Repeatability: This course may not be repeated for additional credits.

PSY 8015. Teaching of Psychology. 0 to 1 Credit Hours.

Required of all graduate teaching assistants during their first semester of teaching. Designed to assist and prepare them for their teaching duties. Supervision and feedback are used to promote effective communication and teaching skills.

PSY 8016. Professional Development Seminar. 2 Credit Hours.

This course is taken concurrently with PSY 8015, the Professional Development Seminar Series (PDS). The course will provide in-depth coverage of issues introduced at PDS seminars and roundtables, along with supporting activities and discussions relevant to students working towards the MS degree in Psychological Research. Students engage in structured written exercises that reinforce necessary professional skills, including preparation of CVs, abstracts for conference presentations, peer review of manuscripts, and grant writing. The major project in this course will be preparation of a draft for a National Science Foundation Graduate Research Fellowship application.

Co-requisites: PSY 8015.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites: Minimum grade of B in PSY 5003, PSY 5791, and PSY 5891.

PSY 8017. Professional Development and Research Ethics in Psychology and Neuroscience. 0 or 1 Credit Hours.

This course provides first-year Psychology PhD students and 4+1 Psychology students in their Masters year with an introduction to graduate school and to the profession of psychology. The central focus of your time in graduate school over the next five years will be research. It will provide an overview of the norms, principles, regulations, and rules governing the responsible conduct of research to set you up for success. Case-based responsible conduct of research training is required by federal granting agencies for all grantees and this course is designed to meet these requirements. This course will introduce key issues in the practice of scientific research with integrity. We will focus on the following topics: authorship, collaboration, conflicts of interest, data management, human subjects, lab animal welfare, mentor/mentee relationships, and peer review. Through discussions of case studies and input from graduate students and postdocs on their lived experience, this course will provide students with the tools needed to deal with difficult situations. In addition to covering ethical issues surrounding these topics, we will also cover practical information that serves as the implicit knowledge in the field. Academic psychology has both explicit and implicit (i.e., tacit) knowledge and rules that underlie the success of individuals in the system. The formalized rules and knowledge are available and relatively easy to acquire; the tacit knowledge is harder to discern and, thus, to acquire. Graduate advisors mentor students to prepare them for successful postgraduate careers, and each program in the department emphasizes the development of particular skills. By helping to demystify the academic path, this course will place the preparation for successful post-graduate careers at the beginning of our graduate program. This seminar is a 1-credit course for Cognition and Neuroscience, Developmental, and Social students, and a 0-credit course for Clinical students.

Repeatability: This course may not be repeated for additional credits.

PSY 8021. Graduate Statistics II. 3 Credit Hours.

Multiway ANOVA for completely randomized and repeated measures, nested designs, covariance designs. Simple effects and planned and post hoc comparisons. Use of available statistical computer programs.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites: Minimum grade of B in PSY 8011.

PSY 8031. Survey of Multivariate Techniques. 3 Credit Hours.

Beginning with bivariate correlation and regression, generalizations are made, through the aid of matrix algebra, to multiple regression and correlation. Multivariate techniques also include principal components, canonical correlation, and multivariate analysis of variance use of available statistical programs.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites: PSY 8011.

PSY 8032. Structural Equation Modeling. 3 Credit Hours.

This graduate course overviews the application of structural equation modeling to various analysis problems confronted throughout the social, behavioral, and health sciences. Topics will include confirmatory factor analysis, measurement and structural models, path analysis, mediation, latent growth modeling, assessing model fit, and implementation of methods in statistical software.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites: PSY 8021.

PSY 8033. Hierarchical Linear Modeling. 3 Credit Hours.

Usually, this takes the form of individuals nested in bounded social organizations (e.g., students nested in schools or residents nested in neighborhoods), speaking to issues of social influence that the social sciences endeavor to address. This course will introduce students to HLM techniques, with a focus on practical applications of HLM. The course will focus on HLM applications to single continuous outcomes—analyzing the effects of context on individual outcomes and analyzing longitudinal data. HLM for binary outcomes and multivariate situations (multiple dependent variables) and (time allowing) HLM for cross-nested designs will also be covered.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites: PSY 8021.

PSY 8110. Topical Seminars in Experimental Psychology. 3 Credit Hours.

Examination of different topics within experimental psychology, varied from semester to semester.

Repeatability: This course may be repeated for additional credit.

PSY 8310. Topical Seminar in Cognitive Psychology. 3 Credit Hours.

Topics vary from semester to semester. Students may repeat this course.

Repeatability: This course may be repeated for additional credit.

PSY 8312. Core Course in Cognitive Psychology. 3 Credit Hours.

Review of theory and research in the areas of memory, language, and thinking.

Repeatability: This course may not be repeated for additional credits.

PSY 8410. Multicultural Issues in Clinical Psychology. 3 Credit Hours.

Topics such as depression, sexuality, neuropsychology, death and dying, stress, impulsivity, specialized treatment approaches, and others are varied from semester to semester according to programmatic needs.

Repeatability: This course may be repeated for additional credit.

PSY 8411. Cognitive-Behavioral Therapies. 3 Credit Hours.

Surveys cognitive-behavioral approaches to the treatment of the major classes of mental, behavioral and emotional disorders. Emphasis is placed on cognitive-behavioral models and case formulation as well as empirical evaluation of the relevant cognitive-behavioral treatment outcome literature.

Repeatability: This course may not be repeated for additional credits.

PSY 8412. Core Course in Psychopathology. 3 Credit Hours.

The course will review concepts, theory, and research in psychopathology. Behavioral, cognitive, interpersonal, psychodynamic, sociocultural, genetic, and biological/neuroscience aspects of psychopathology will be covered as appropriate, depending on the disorder. The course will emphasize descriptive psychopathology (e.g. phenomenology, epidemiology, course of disorder) and issues of etiology, rather than treatment, although some work on treatment will also be discussed. The major goals of the course are knowledge of the nature of various mental disorders and what is known about their causes and risk factors, an appreciation of important issues in psychopathology, and development of the ability to think clearly and critically about these issues.

Repeatability: This course may not be repeated for additional credits.

PSY 8413. Psychological Assessment I. 3 Credit Hours.

A year-long course; surveys concepts of intelligence and teaches the administration, scoring, and interpretation of individually administered tests. The evaluation of learning disabilities and neuropsychological disorders is also covered. Surveys the diagnostic system of mental disorders. Teaches the administration, scoring, and interpretation of projective tests and other procedures used to identify and understand clinical dynamics.

Repeatability: This course may not be repeated for additional credits.

PSY 8420. Topical Seminars in Clinical Psychology. 3 Credit Hours.

Topics such as depression, sexuality, neuropsychology, death and dying, stress, impulsivity, specialized treatment approaches, and others are varied from semester to semester according to programmatic needs.

Repeatability: This course may be repeated for additional credit.

PSY 8423. Psychological Assessment II. 3 Credit Hours.

A year-long course; surveys concepts of intelligence and teaches the administration, scoring, and interpretation of individually administered tests. The evaluation of learning disabilities and neuropsychological disorders is also covered. Surveys the diagnostic system of mental disorders. Teaches the administration, scoring, and interpretation of projective tests and other procedures used to identify and understand clinical dynamics.

Repeatability: This course may not be repeated for additional credits.

PSY 8430. Topical Seminars in Clinical Psychology IV. 3 Credit Hours.

Topics such as depression, sexuality, neuropsychology, death and dying, stress, impulsivity, specialized treatment approaches, and others are varied from semester to semester according to programmatic needs.

Repeatability: This course may be repeated for additional credit.

PSY 8433. Clinical Psychology: Scientific and Professional Dimensions. 3 Credit Hours.

History, ethics, research and service methodologies, psychometrics, and topical discussions pertinent to the relationships between psychological science and the practice of clinical psychology.

Repeatability: This course may not be repeated for additional credits.

PSY 8481. Social, Cognitive, and Developmental Aspects of Behavior. 3 Credit Hours.

This is a general graduate level survey course that will include three 5-week evaluated education experiences (EEE's) focusing on each of (a) social aspects of behavior (b) cognitive aspects of behavior and (c) developmental aspects of behavior. The social EEE will include topics such as group processes, attributions, discrimination and attitudes. The developmental EEE will include topics such as transitions, growth, and development across an individual's life. The cognitive EEE will include topics such as learning, memory, thought processes, and decision-making. As a part of each EEE, students will be assigned primary readings of classic articles in the area as well as recent research findings. This course is designed to meet the American Psychological Association requirements for discipline specific knowledge in social, cognitive, and developmental aspects of behavior.

Repeatability: This course may not be repeated for additional credits.

PSY 8510. Topical Seminar in Developmental Psychology I to IV. 3 Credit Hours.

In different semesters these courses focus on topics such as aging, adolescence, infancy, language development, learning and memory development, perceptual development, and theories of development.

Repeatability: This course may be repeated for additional credit.

PSY 8610. Topical Seminar in Organizational-Social. 3 Credit Hours.

Topics selected depend on the current emphasis in the field and interests of the students. A student may repeat this course.

Repeatability: This course may be repeated for additional credit.

PSY 8712. Core Course in Behavioral Neuroscience. 3 Credit Hours.

An examination of brain-behavior relationships in the context of evolution.

Repeatability: This course may not be repeated for additional credits.

PSY 9187. Clinical Practicum. 3 Credit Hours.

Under the auspices of the Psychological Services Center, students work with a different faculty member for each of four semesters. Each semester will emphasize either a different client population or a different orientation to the assessment and treatment of child, family, and adult disorders. Faculty assignments and the focus of group supervision vary from semester to semester.

Repeatability: This course may be repeated for additional credit.

PSY 9283. Readings in Psychology. 1 to 3 Credit Hour.

A post-master's advanced tutorial course.

Repeatability: This course may be repeated for additional credit.

PSY 9287. Clinical Practicum. 3 Credit Hours.

Under the auspices of the Psychological Services Center, students work with a different faculty member for each of four semesters. Each semester will emphasize either a different client population or a different orientation to the assessment and treatment of child, family, and adult disorders. Faculty assignments and the focus of group supervision vary from semester to semester.

Repeatability: This course may be repeated for additional credit.

PSY 9387. Clinical Practicum. 3 Credit Hours.

Under the auspices of the Psychological Services Center, students work with a different faculty member for each of four semesters. Each semester will emphasize either a different client population or a different orientation to the assessment and treatment of child, family, and adult disorders. Faculty assignments and the focus of group supervision vary from semester to semester.

Repeatability: This course may be repeated for additional credit.

PSY 9411. Clinical Research Methodology. 3 Credit Hours.

Focuses on design issues and major methodological problems in research on such topics as psychotherapy outcome, characteristics of diagnostic groups, and stress in families. Particular attention is given to internal and external validity threats, advantages and disadvantages of assessment methods, principles of test construction, challenges and alternatives to traditional research methods, single subject designs, and approaches to integrating clinical research and practice.

Repeatability: This course may not be repeated for additional credits.

PSY 9485. Ph.D. Internship Course. 1 to 6 Credit Hour.

For clinical students only who are on internship.

Repeatability: This course may be repeated for additional credit.

PSY 9487. Clinical Practicum. 3 Credit Hours.

Under the auspices of the Psychological Services Center, students work with a different faculty member for each of four semesters. Each semester will emphasize either a different client population or a different orientation to the assessment and treatment of child, family, and adult disorders. Faculty assignments and the focus of group supervision vary from semester to semester.

Repeatability: This course may be repeated for additional credit.

PSY 9587. Clinical Practicum. 3 Credit Hours.

Under the auspices of the Psychological Services Center, students work with a different faculty member for each of four semesters. Each semester will emphasize either a different client population or a different orientation to the assessment and treatment of child, family, and adult disorders. Faculty assignments and the focus of group supervision vary from semester to semester.

Repeatability: This course may be repeated for additional credit.

PSY 9983. Independent Readings on Affective Aspects of Behavior. 0 Credit Hours.

This is an independent readings course designed specifically to meet the APA requirements for discipline specific knowledge in affective aspects of behavior. The primary objective of this course is to provide graduate-level foundational knowledge in affective aspects of behavior. This includes definitions of emotion, measurement of emotion, critique of emotion research, emotion regulation and emotion in different cultural contexts.

Repeatability: This course may not be repeated for additional credits.

PSY 9987. Assessment Practicum. 3 Credit Hours.

The assessment practicum is designed to provide clinical students in-depth training in comprehensive psychological/neuropsychological assessment. Under the auspices of the Psychological Services Center, students work with a faculty member who is a licensed psychologist for two semesters conducting psychological assessments. Integration of test results and other sources of information (e.g., interview, medical history, informant reports, etc.) will be emphasized. Additionally, the assessment practicum will focus on generating recommendations based on the psychological/neuropsychological assessment and communicating results to clients and referral sources.

Repeatability: This course may be repeated for additional credit.

Pre-requisites: Minimum grade of B- in PSY 8413 and PSY 8423.

PSY 9991. Research. 1 to 6 Credit Hour.

Intended to meet the needs of students who desire to carry on an individual investigation while working for the master's degree.

Repeatability: This course may be repeated for additional credit.

PSY 9994. Preliminary Examination Preparation. 1 to 6 Credit Hour.

Preparation for the preliminary examination.

Repeatability: This course may be repeated for additional credit.

PSY 9998. Pre-Dissertation Research. 1 to 6 Credit Hour.

Independent research for the dissertation proposal. Registration each semester required until approval and elevation to candidacy.

Repeatability: This course may be repeated for additional credit.

PSY 9999. Ph.D. Dissertation Research. 1 to 6 Credit Hour.

After passing the preliminary examinations and having an approved proposal, Ph.D. students must register each semester for this course until the completion of the dissertation.

Repeatability: This course may be repeated for additional credit.