

# PSYCHOLOGY (PSYC)

## **PSYC 52. First-Year Seminar: Evolutionary Psychology. 3 Credits.**

Students will gain an in-depth understanding of evolutionary psychology, a current amalgam of evolutionary biology, psychology, and anthropology that aims to view complex social and personality features of human behavior.

**Gen Ed:** PL.

**Grading status:** Letter grade.

## **PSYC 53. First-Year Seminar: Talking about Numbers: Communicating Research Results to Others. 3 Credits.**

How do you persuade others with numbers? What are the common biases and fallacies that we have in understanding numbers and statistics?

This course is designed to allow students to work together with their instructor and classmates to attain a shared intellectual adventure. This course is also a MakerSpace course. Students in this course will focus on the design and making of physical objects as a way to learn about course concepts.

**Gen Ed:** PL, QI.

**Grading status:** Letter grade.

## **PSYC 54. First-Year Seminar: Families and Children. 3 Credits.**

This course will consider family from a life-course perspective and family influences on child development. Research and theory concerning divorced and step families, single parents, gay and lesbian parents, and family processes that shape children's development will be examined.

**Gen Ed:** SS.

**Grading status:** Letter grade.

## **PSYC 55. First-Year Seminar: Children's Eyewitness Testimony. 3 Credits.**

The course will address relevant literature on children's memory and cognition involving allegations of child sexual abuse.

**Gen Ed:** SS.

**Grading status:** Letter grade.

## **PSYC 58. First-Year Seminar: The Psychology of Mental States and Language Use. 3 Credits.**

Examines how language use is affected by one's reasoning about the mental activities of others. We will examine the development of language, adult language use, and the language of autistic individuals, who are known to have difficulty reasoning about others' minds. This seminar will follow a discussion format. Honors version available

**Gen Ed:** SS.

**Grading status:** Letter grade.

## **PSYC 58H. First-Year Seminar: The Psychology of Mental States and Language Use. 3 Credits.**

Examines how language use is affected by one's reasoning about the mental activities of others. We will examine the development of language, adult language use, and the language of autistic individuals, who are known to have difficulty reasoning about others' minds. This seminar will follow a discussion format.

**Gen Ed:** SS.

**Grading status:** Letter grade.

## **PSYC 62. First-Year Seminar: Positive Psychology: The Science of Optimal Human Functioning. 3 Credits.**

This course invites students to explore the opportunities presented by the vibrant and emerging field of positive psychology.

**Gen Ed:** SS, CI.

**Grading status:** Letter grade.

## **PSYC 63. First-Year Seminar: Use, Misuse, and Addiction to Drugs in the 21st Century. 3 Credits.**

This is a first-year seminar on the use of drugs in the U.S. Its purpose is to understand the effects of drug use on pain management, overdose prevention, substance use disorder, overdoses, diversion, legal consequences, public health policy, harm reduction, and treatment. Activities include lectures from technical experts, post-lecture discussions, readings and student-lead discussions, written summaries of class material, formal debates, and a final class project on an effective evidence-based overdose prevention program.

**Gen Ed:** SS.

**Grading status:** Letter grade.

## **PSYC 66. First-Year Seminar: Eating Disorders and Body Image. 3 Credits.**

Students will learn about anorexia and bulimia nervosa, as well as prevention and treatment efforts. The course explores factors related to these disorders and body image from a psychosocial perspective. Learning will occur through discussions, readings, videos, guest speakers, experimental assignments, writing assignments, and research projects.

**Gen Ed:** SS.

**Grading status:** Letter grade.

## **PSYC 67. First-Year Seminar: The Senses of Animals. 3 Credits.**

This course deals with the sensory systems of animals. A description of the human senses is included, but senses that differ from our own are emphasized. Some treatment of research methods is also included. Classes will be a mixture of lecture, discussion, and student reports.

**Gen Ed:** PL.

**Grading status:** Letter grade.

## **PSYC 68. First-Year Seminar: Psychology of Emotion. 3 Credits.**

This first-year seminar is designed for students interested in exploring the psychological study of emotion. Topics include theoretical models of emotion process and structure, as well as a review of research questions about emotional expressions, autonomic physiology, affective neuroscience, emotion and reasoning, and emotion and health.

**Gen Ed:** SS.

**Grading status:** Letter grade.

## **PSYC 69. First-Year Seminar: Racism, Racial Identity, and African American Mental Health. 3 Credits.**

This seminar examines the connections among racism experiences, racial identity, and mental health with a focus on African American children, adolescents, and young adults.

**Gen Ed:** SS, US.

**Grading status:** Letter grade.

## **PSYC 72. First-Year Seminar: Visualizing Women's Lives and Experiences. 3 Credits.**

This seminar explores the experiences of women by integrating content and methodologies from psychology with perspectives on the depiction of women in the arts, namely digital media. Students will study gender socialization, body image, work/achievement, sex and romance, motherhood, aging, and mental health with attention given to diversity.

**Gen Ed:** SS, US.

**Grading status:** Letter grade

**Same as:** ARTS 72.

## **PSYC 89. First Year Seminar: Special Topics. 3 Credits.**

Content varies by semester. Honors version available

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 6 total credits. 2 total completions.

**Grading status:** Letter grade.

**PSYC 89H. First Year Seminar: Special Topics. 3 Credits.**

Content varies by semester.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 6 total credits. 2 total completions.

**Grading status:** Letter grade.

**PSYC 101. General Psychology. 3 Credits.**

A survey of major principles of psychology and an introduction to scientific modes of thought about behavior. Students participate in ongoing psychological research in the department. PSYC 101 is a prerequisite for all psychology courses.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 115. Reasoning with Data: Navigating a Quantitative World. 3 Credits.**

Students will use mathematical and statistical methods to address societal problems, make personal decisions, and reason critically about the world. Authentic contexts may include voting, health and risk, digital humanities, finance, and human behavior. This course does not count as credit towards the psychology or neuroscience majors.

**Gen Ed:** QR.

**Grading status:** Letter grade

**Same as:** MATH 115, BIOL 115, STOR 115.

**PSYC 180. Social Media, Technology, and the Adolescent Brain. 3 Credits.**

In this course, we will learn about current evidence, theory, and controversies with regards to how technology use may affect adolescent development. Questions such as how technology is changing adolescents' social relationships, impacting their mental health, and interacting with the developing brain to influence social, emotional, and cognitive development will be explored.

**Grading status:** Letter grade.

**PSYC 190. Special Topics in Psychology. 3 Credits.**

An undergraduate seminar course that is designed to be a participatory intellectual adventure on an advanced, emergent, and stimulating topic within a selected discipline in psychology. This course does not count as credit towards the psychology major.

**Grading status:** Letter grade.

**PSYC 210. Statistical Principles of Psychological Research. 4 Credits.**

Consideration of the methodological principles underlying psychological research, descriptive and inferential techniques, and the manner by which they may be employed to design psychological experiments and analyze behavioral data. Three lecture hours and one laboratory hour a week.

Honors version available

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** EE- Mentored Research, QI.

**Grading status:** Letter grade.

**PSYC 210H. Statistical Principles of Psychological Research. 4 Credits.**

Consideration of the methodological principles underlying psychological research, descriptive and inferential techniques, and the manner by which they may be employed to design psychological experiments and analyze behavioral data. Three lecture hours and one laboratory hour a week.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** QI.

**Grading status:** Letter grade.

**PSYC 215. Applied Data Science in Psychology and Neuroscience. 4 Credits.**

This course is an alternative to PSYC 210, and therefore, satisfies the statistics requirement of the psychology and neuroscience majors. This is a Course-based Undergraduate Research Experience (CURE), focusing on descriptive and inferential statistical techniques and the manner by which they are employed to design and analyze behavioral data. Students may not receive credit in both PSYC 210 and 215.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** EE- Mentored Research, QI.

**Grading status:** Letter grade.

**PSYC 220. Biopsychology. 3 Credits.**

Introductory course which surveys the biological bases of behavior. Topics may include nerve cells and nerve impulses, sensory systems, wakefulness and sleep, reproductive behaviors, and cognitive functions. This course would be an appropriate foundational course for Advanced Biopsychology (PSYC 402). Honors version available

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 220H. Biopsychology. 3 Credits.**

Introductory course which surveys the biological bases of behavior. Topics may include nerve cells and nerve impulses, sensory systems, wakefulness and sleep, reproductive behaviors, and cognitive functions. This course would be an appropriate foundational course for Advanced Biopsychology (PSYC 402).

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 230. Cognitive Psychology. 3 Credits.**

Topics in attention; memory; visual, auditory, and other forms of information processing; decision making; and thinking. Honors version available

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 230H. Cognitive Psychology. 3 Credits.**

Topics in attention; memory; visual, auditory, and other forms of information processing; decision making; and thinking.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 242. Introduction to Clinical Psychology. 3 Credits.**

Overview of clinical psychology: history, scientific basis, and major activities and concerns, including assessment, psychotherapy and other psychological interventions, community psychology, ethics, and professional practice. Students may not receive credit for both PSYC 242 and 505. Honors version available

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 242H. Introduction to Clinical Psychology. 3 Credits.**

Overview of clinical psychology: history, scientific basis, and major activities and concerns, including assessment, psychotherapy and other psychological interventions, community psychology, ethics, and professional practice. Students may not receive credit for both PSYC 242 and 505.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 245. Psychopathology. 3 Credits.**

Major forms of behavior disorders in children and adults, with an emphasis on description, causation, and treatment. Honors version available

**Requisites:** Prerequisite, PSYC 101.

**Grading status:** Letter grade.

**PSYC 245H. Psychopathology. 3 Credits.**

Major forms of behavior disorders in children and adults, with an emphasis on description, causation, and treatment.

**Requisites:** Prerequisite, PSYC 101.

**Grading status:** Letter grade.

**PSYC 250. Child Development. 3 Credits.**

Study of the development of social and intellectual behavior in normal children and the processes that underlie this development. Emphasis is typically on theory and research. Honors version available

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 250H. Child Development. 3 Credits.**

Study of the development of social and intellectual behavior in normal children and the processes that underlie this development. Emphasis is typically on theory and research.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 260. Social Psychology. 3 Credits.**

Introductory survey of experimental social psychology covering attitudes, interpersonal processes, and small groups. Honors version available

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 260H. Social Psychology. 3 Credits.**

Introductory survey of experimental social psychology covering attitudes, interpersonal processes, and small groups.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 270. Research Methods in Psychology. 3 Credits.**

Students in this course will be exposed to a survey of methodology used across various disciplines in psychology (i.e., social, clinical, development, cognitive, and neuroscience). In addition, students will work as a class to conduct research projects on a common theme. Students will spend class time planning, conducting, and writing up the results of this project. Class time will also be used to discuss methodological considerations in psychological research more broadly.

**Requisites:** Prerequisites, PSYC 101.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 290. Current Topics in Psychology. 1-3 Credits.**

Various special areas of psychological study, offered as needed. Course may be repeated for credit. Honors version available

**Requisites:** Prerequisite, PSYC 101.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 6 total credits. 2 total completions.

**Grading status:** Pass/Fail.

**PSYC 290H. Current Topics in Psychology. 1-3 Credits.**

Various special areas of psychological study, offered as needed. Course may be repeated for credit.

**Requisites:** Prerequisite, PSYC 101.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 6 total credits. 2 total completions.

**Grading status:** Pass/Fail.

**PSYC 294. Service Learning in Psychology: APPLES. 1-3 Credits.**

Permission of the instructor. Service learning component for students enrolled in psychology APPLES courses. May not count toward the major.

**Gen Ed:** EE- Service Learning.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 6 total credits. 2 total completions.

**Grading status:** Letter grade.

**PSYC 310. Applied Statistical Methods in the Psychological Sciences. 3 Credits.**

This course extends statistical and data analytic concepts covered in PSYC 210 with direct applications to empirical data commonly encountered in psychological research. Topics include measurement, group comparisons, linear associations, and prediction. An equal balance is placed on statistical concepts, computer-based data analysis, and interpretation of findings.

**Requisites:** Prerequisite, PSYC 210, PSYC 215, SOCI 252, or STOR 155.

**Gen Ed:** SS, QI.

**Grading status:** Letter grade.

**PSYC 330. Introduction to Cognitive Science. 3 Credits.**

Recommended preparation, PSYC 210 or another quantitative reasoning course. An introduction to the interdisciplinary study of the mind, intelligent behavior, information processing, and communication in living organisms and computers.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 390. Current Topics in Psychology. 1-3 Credits.**

Various special areas of psychological study, offered as needed. Course may be repeated for credit.

**Requisites:** Prerequisite, PSYC 101.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 6 total credits. 2 total completions.

**Grading status:** Letter grade.

**PSYC 395. Independent Research. 1-3 Credits.**

A minimum of a 3.0 cumulative grade point average. Permission of the instructor. Supervised research resulting in a written report. May be repeated for credit up to eight hours. Up to three hours may count as a psychology elective.

**Requisites:** Prerequisites, PSYC 101 and two additional psychology courses, at least one of which must be numbered 200 or greater.

**Gen Ed:** EE- Mentored Research.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 8 total credits. 6 total completions.

**Grading status:** Letter grade.

**PSYC 404. Clinical Psychopharmacology. 3 Credits.**

This course will investigate the pharmacological effects and the clinical efficacy of drugs used to treat behavior disorders.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 430. Human Memory. 3 Credits.**

This course explores classic and current issues in the study of human memory. Topics include working memory, encoding and retrieval processes, implicit memory, reconstructive processes in memory, eyewitness memory, developmental changes in memory, neuropsychology and neuroscience of memory and memory disorders, memory improvement, and the repressed/recovered memory controversy.

**Requisites:** Prerequisites, PSYC 101, and 222 or 230.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 432. Psychology of Language. 3 Credits.**

Recommended preparation, PSYC 230 or LING 101 or LING 400. This course examines the mental representations and cognitive processes that underlie the human ability to use language. Covers what people know about language, how they process it, and how people make inferences about the speaker's meaning based on context. Recent work in experimental psycholinguistics is discussed.

**Requisites:** Prerequisite, PSYC 101.

**Grading status:** Letter grade.

**PSYC 433. Behavioral Decision Theory. 3 Credits.**

Simple mathematical and psychological models of judgment and choice, and related experiments, are treated, as are applications to real world problems in medical, environmental, policy, business, and related domains.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 438. Research Topics in the Psychology of Language. 3 Credits.**

Examines the cognitive mechanisms behind language comprehension, focusing on how we make predictions about the speaker's meaning, based on context, background, gestures, and other cues. In this course-based undergraduate research experience (CURE), groups of students generate novel research questions, perform their own research experiments, and present the results in spoken and written format.

**Requisites:** Prerequisite, PSYC 270; recommended preparation, at least one course in linguistics (PSYC 432, any LING course, or any course with a substantial linguistics component).

**Gen Ed:** SS, CI, EE- Mentored Research.

**Grading status:** Letter grade.

**PSYC 461. Cognitive Development. 3 Credits.**

An examination of the development of attention, perception, learning, memory, and thinking in normal children.

**Requisites:** Prerequisites, PSYC 101 and 250.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 463. Development of Social Behavior and Personality. 3 Credits.**

Developmental processes during early childhood as these relate to social behavior and personality.

**Requisites:** Prerequisites, PSYC 101 and either PSYC 210 or 215.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 465. Poverty and Development. 3 Credits.**

Poverty is one of the most consistent and influential risk factors for problematic development. This course focuses on the scientific study of how poverty affects development across the human life span.

**Requisites:** Prerequisites, PSYC 101 and 250.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 467. The Development of Black Children. 3 Credits.**

PSYC 210 or 215 recommended. A survey of the literature on the development of black children. Topics include peer and social relations, self-esteem, identity development, cognitive development, school achievement, parenting, family management, and neighborhood influences.

**Requisites:** Prerequisites, PSYC 101 and 250.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 468. Family as a Context for Development. 3 Credits.**

Explores how the family influences children's development. Topics include family theories, genetics, family structure (e.g., single parents, working mothers, divorce), discipline, parent behavior and values and beliefs, fathers and ethnic diversity.

**Requisites:** Prerequisites, PSYC 101, 250, and either PSYC 210 or 215.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 469. Evolution and Development of Biobehavioral Systems. 3 Credits.**

Examines the evolution and development of behavior patterns and their physiological substrates.

**Requisites:** Prerequisites, BIOL 101 and PSYC 101, 210, or 215.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 471. The Study of Adolescent Issues and Development. 3 Credits.**

The developmental period of adolescence is studied from a multidisciplinary perspective. The course will distinguish among early, middle, and late adolescence and will cover several theoretical perspectives.

**Requisites:** Prerequisites, PSYC 101, 250, and either PSYC 210 or 215.

**Grading status:** Letter grade.

**PSYC 472. Racial Discrimination and Minority Youth. 3 Credits.**

This course examines the effects of racial discrimination among African American, Latino, Asian American, and Native American adolescents using a psychological perspective to critically examine empirical research. The course examines racial discrimination, power, and equity and is recommended for students interested in serious, thought-provoking discussions.

**Requisites:** Prerequisites, PSYC 101, 250, 260, and either PSYC 210 or 215.

**Gen Ed:** SS, US.

**Grading status:** Letter grade.

**PSYC 490. Current Topics in Psychology. 3 Credits.**

Various special areas of psychological study, offered as needed. Course may be repeated for credit. Honors version available

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 12 total credits. 2 total completions.

**Grading status:** Letter grade.

**PSYC 490H. Current Topics in Psychology. 3 Credits.**

Various special areas of psychological study, offered as needed. Course may be repeated for credit.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 12 total credits. 2 total completions.

**Grading status:** Letter grade.

**PSYC 493. Internship in Psychology. 3 Credits.**

Required preparation, minimum of two other psychology courses and junior/senior standing. Designed for highly motivated psychology majors interested in exploring professional opportunities in psychology-related areas. Students complete hands-on internships at community sites for approximately 120 hours across the semester. Students also attend a weekly one-hour class with other interns.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** EE- Academic Internship.

**Grading status:** Letter grade.

**PSYC 500. Developmental Psychopathology. 3 Credits.**

A survey of theories bearing on atypical development and disordered behavior, and an examination of major child and adolescent behavior problems and clinical syndromes.

**Requisites:** Prerequisites, PSYC 101, 245, and 250.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 501. Theoretical, Empirical Perspectives on Personality. 3 Credits.**

An in-depth coverage of the traditional clinically based personality theories of the early 20th century contrasted with more recent empirically based perspectives.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 502. Psychology of Adulthood and Aging. 3 Credits.**

A developmental approach to the study of adulthood, from young adulthood through death. Topics include adult issues in personality, family dynamics, work, leisure and retirement, biological and intellectual aspects of aging, dying, and bereavement.

**Requisites:** Prerequisites, PSYC 101 and 250.

**Gen Ed:** SS, EE- Service Learning.

**Grading status:** Letter grade.

**PSYC 503. African American Psychology. 3 Credits.**

This course examines race and culture in the psychological processes and behavior of African Americans.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** SS, US.

**Grading status:** Letter grade.

**PSYC 504. Health Psychology. 3 Credits.**

An in-depth coverage of psychological, biological, and social factors that may be involved with health.

**Requisites:** Prerequisites, PSYC 101 and 245.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 512. Popularity, Friendship, and Peer Relations. 3 Credits.**

This course will review literature regarding peer relations among children and adolescents, including peer acceptance/rejection, popularity, bases of friendship selection, peer crowds, romantic relationships, and theories of peer influence.

**Requisites:** Prerequisite, PSYC 101.

**Grading status:** Letter grade.

**PSYC 514. Mania and Depression. 3 Credits.**

The social, developmental, and biological contributions to mania and depression are examined, as well as the impact of these moods on the brain, creativity, relationships, quality of life, and health.

**Requisites:** Prerequisites, PSYC 101 and 245.

**Grading status:** Letter grade.

**PSYC 517. Addiction. 3 Credits.**

PSYC 245 and 270 recommended but not required. This course will provide students with a comprehensive overview of the etiology and treatment of addiction, along with exposure to real-life stories of addiction.

**Requisites:** Prerequisite, PSYC 101.

**Gen Ed:** PL.

**Grading status:** Letter grade.

**PSYC 525. Psychological Archival Data Science. 3 Credits.**

This course addresses techniques in answering new questions with existing data. Students will learn about data from multiple perspectives: different data source and types, intended audiences, and visualization, analysis, and presentation formats. This will make students more savvy consumers as well as producers of data.

**Requisites:** Prerequisites, PSYC 270 and 245 or 500.

**Gen Ed:** CI, EE- Mentored Research, QI.

**Grading status:** Letter grade.

**PSYC 528. Clinical Research: Design, Analyze, Disseminate. 3 Credits.**

In this project-based course, students work with a community partner to identify a clinical research question related to our understanding and treatment of psychological health and human behavior. Using an iterative method reflective of working in a psychology research lab, students collaborate with one another and community partners to develop hypotheses, to prepare and analyze data, to propose interpretations of data, and to present their results to the public.

**Requisites:** Prerequisites, PSYC 101, 270 and either PSYC 210 or 215.

**Gen Ed:** EE- Mentored Research.

**Grading status:** Letter grade.

**PSYC 530. Design and Interpretation of Psychological Research. 3 Credits.**

Emphasis on the methodological principles underlying experimental and correlational research. Interaction of theory and practice in the design and interpretation of psychological studies. This is a course-based undergraduate research experience (CURE).

**Requisites:** Prerequisites, PSYC 101 and 270.

**Gen Ed:** PL, CI, EE- Mentored Research, QI.

**Grading status:** Letter grade.

**PSYC 531. Tests and Measurement. 3 Credits.**

Basic psychometric theory underlying test construction and utilization. Detailed study of issues and instruments used in assessing intellectual functioning, educational progress, personality, and personnel selection.

**Requisites:** Prerequisites, PSYC 101, and either PSYC 210 or 215.

**Gen Ed:** SS, QI.

**Grading status:** Letter grade.

**PSYC 532. Quantitative Psychology. 3 Credits.**

This course examines the science of quantitative psychology. Topics include the analysis of data, the design of questionnaires, and the assessment of psychological attributes, among others. Honors version available

**Requisites:** Prerequisite, PSYC 210, 215, SOCI 252, or STOR 155.

**Grading status:** Letter grade.

**PSYC 532H. Quantitative Psychology. 3 Credits.**

This course examines the science of quantitative psychology. Topics include the analysis of data, the design of questionnaires, and the assessment of psychological attributes, among others.

**Requisites:** Prerequisite, PSYC 210, 215, SOCI 252, or STOR 155.

**Grading status:** Letter grade.

**PSYC 533. The General Linear Model in Psychology. 3 Credits.**

Consideration of multiple regression and the general linear model in psychological research, including hypothesis testing, model formulation, and the analysis of observational and experimental data. Honors version available

**Requisites:** Prerequisite, ECON 400, PSYC 210, PSYC 215, SOCI 252 or STOR 155.

**Grading status:** Letter grade.

**PSYC 533H. The General Linear Model in Psychology. 3 Credits.**

Consideration of multiple regression and the general linear model in psychological research, including hypothesis testing, model formulation, and the analysis of observational and experimental data.

**Requisites:** Prerequisite, ECON 400, PSYC 210, PSYC 215, SOCI 252 or STOR 155.

**Grading status:** Letter grade.

**PSYC 534. Introduction to Computational Statistics. 3 Credits.**

Introduction to programming and the implementation of statistical techniques. Topics include data manipulation, graphical procedures, writing loops and functions, data simulation, use of regular expressions, and scraping data from the web.

**Requisites:** Prerequisite, PSYC 210, 215, SOCI 252, or STOR 155.

**Gen Ed:** PL, QI.

**Grading status:** Letter grade.

**PSYC 559. Applied Machine Learning in Psychology. 3 Credits.**

As opposed to hypothesis-driven data analysis, machine learning takes an exploratory and predictive approach to data analysis. This course introduces machine learning approaches in psychology to identify important variables for prediction and uncover complex patterns in datasets, such as nonlinearity, interactions, or clusters. Classes include theoretical lectures and hands-on examples.

**Requisites:** Prerequisites, PSYC 101, and either PSYC 210 or 215.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 561. Social Cognition. 3 Credits.**

Theory and research in social psychology, which explores the cognitive processes underlying social phenomena. Specific topics covered include attributions, emotions, automaticity, heuristics, self, goals, stereotyping, expectancies, social motives, and others. Honors version available

**Requisites:** Prerequisites, PSYC 101, 260, and either PSYC 210 or 215.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 561H. Social Cognition. 3 Credits.**

Theory and research in social psychology, which explores the cognitive processes underlying social phenomena. Specific topics covered include attributions, emotions, automaticity, heuristics, self, goals, stereotyping, expectancies, social motives, and others.

**Requisites:** Prerequisites, PSYC 101, 260, and either PSYC 210 or 215.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 564. Interpersonal Relationships. 3 Credits.**

PSYC 270 Recommended. This advanced course will comprehensively cover the social psychological literature on normally-developing interpersonal relationships, with implications for relationships with family, friends, co-workers, and romantic partners. This is a research-intensive course with a major aspect involving an independent research project to facilitate learning by doing.

**Requisites:** Prerequisites, PSYC 101, 260, and either PSYC 210 or 215.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 565. Stereotyping, Prejudice, and Discrimination. 3 Credits.**

PSYC 270 recommended. Examines the determinants, functions, processes, and consequences of stereotyping, prejudice, and discrimination. Prospects for change are considered. Class presentations and participation required.

**Requisites:** Prerequisites, PSYC 101, 260, and either PSYC 210 or 215.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 566. Attitude Change. 3 Credits.**

A detailed consideration of the theoretical issues in attitude and belief change.

**Requisites:** Prerequisites, PSYC 101, 260, and either 210 or 215.

**Grading status:** Letter grade.

**PSYC 567. Research in Positive Psychology. 3 Credits.**

This advanced course in positive psychology is research intensive and intended as a capstone for majors in psychology. Majors only.

**Requisites:** Prerequisites, PSYC 101, 270, and either 210 or 215.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 569. Practical Wisdom from Advanced Social Psychology. 3 Credits.**

Surveys cutting-edge research across the field of social psychology and how it matters for everyday life. Topics include morality, mind perception, judgment and decision making, happiness, affective forecasting, emotion, relationships, negotiation, personality, free will, stress/health, and religion. Clear communication of research also emphasized through figures, presentations, and papers.

**Requisites:** Prerequisites, PSYC 101, 260, and 270.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 570. The Social Psychology of Self-Regulation. 3 Credits.**

PSYC 270 recommended. An intensive review of self-regulation theory and research, focusing on the cognitive, motivational, and affective processes involved in goal commitment, monitoring, and overriding behavioral responses.

**Requisites:** Prerequisites, PSYC 101, 260, and either PSYC 210 or 215.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 572. Theoretical and Empirical Perspectives on Sex and Gender Differences. 3 Credits.**

An in-depth examination of psychological research and theory pertaining to the influence of gender on the lives of men and women. In general, emphasis will be placed on understanding gender as a social psychological construct.

**Requisites:** Prerequisites, PSYC 101 and 260.

**Gen Ed:** SS.

**Grading status:** Letter grade.

**PSYC 573. Psychology of Women and Gender. 3 Credits.**

This course will discuss theories, methods, and empirical research findings on the physical, cognitive, emotional, and social aspects of the psychology of women, as well as topics such as feminist psychology, intersectionality, bias in psychological research, sexual orientation, sexuality, lifespan development, work, and health. Men and masculinity, the psychology of transgender persons, and a critique of the gender binary are also discussed.

**Requisites:** Prerequisite, PSYC 101 or WGST 101.

**Grading status:** Letter grade

**Same as:** WGST 573.

**PSYC 601. Psychology and Law. 3 Credits.**

Examines the legal system from the perspective of psychology methods and research, with a focus on criminal law. Discusses dilemmas within the law and between the legal system and psychology.

**Requisites:** Prerequisites, PSYC 101, and either PSYC 210 or PSYC 215.

**Grading status:** Letter grade.

**PSYC 602. Evolutionary Psychology. 3 Credits.**

Major topics of general psychology are examined from an evolutionary perspective with an emphasis on empirical studies asking why much current human behavior and experience would have been adaptive for our early ancestors.

**Requisites:** Prerequisite, PSYC 101.

**Grading status:** Letter grade.

**PSYC 693H. Honors in Psychology I. 3 Credits.**

Required preparation, cumulative GPA of 3.3, in-process or completion of PSYC 395 (or equivalent experience in a faculty research lab), and acceptance through application to the honors committee. To be taken in the fall of the last year of studies as the first course in the two-semester honors sequence. Students conduct research under the direction of a faculty advisor and receive classroom instruction in research-related topics.

**Gen Ed:** SS, CI, EE- Mentored Research.

**Grading status:** Letter grade.

**PSYC 694H. Honors in Psychology II. 3 Credits.**

Admission to the psychology honors program required. To be taken as the second course in the two-semester honors sequence. Students conduct research under the direction of a faculty advisor and receive classroom instruction in research-related topics.

**Requisites:** Prerequisite, PSYC 693H.

**Gen Ed:** SS, CI, EE- Mentored Research.

**Grading status:** Letter grade.

**PSYC 701. Brain & Behavior I. 3 Credits.**

Graduate standing required. A survey of psychological and biological approaches to the study of sensory and perceptual information processing, with an emphasis on touch and pain.

**Grading status:** Letter grade

**Same as:** NBIO 701A.

**PSYC 702. Brain & Behavior II. 3 Credits.**

A survey of psychological and biological approaches to the study of basic learning and higher integrative processing.

**Grading status:** Letter grade

**Same as:** NBIO 702A.

**PSYC 703. Advanced Biological Psychology: Central Nervous System. 3 Credits.**

Each fall one special topic will be covered in depth (e.g., neural bases of memory storage, homeostasis, and perception). Format includes lectures and seminar meetings with student presentations.

**Requisites:** Prerequisite, PSYC 402.

**Grading status:** Letter grade

**Same as:** NBIO 703.

**PSYC 704. Applications of Experimental Psychology to Health Research. 3 Credits.**

This course provides a critical analysis of interdisciplinary research within experimental psychology, including such topics as psychopharmacology, psychoneuroimmunology, psychophysiology, and animal models of brain/behavior disorders.

**Grading status:** Letter grade

**Same as:** NBIO 704.

**PSYC 705. Behavioral Pharmacology. 3 Credits.**

Basic principles of pharmacology and behavior analysis are considered in relation to drugs that affect the central nervous system.

**Requisites:** Prerequisite, PSYC 404; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade

**Same as:** NBIO 705, PHCO 705.

**PSYC 707. Clinical Psychopharmacology. 3 Credits.**

Examinations of the clinical efficacy, side effects, and neuropharmacological actions of drugs used in the treatment of behavioral disorders. Additional topics include the behavioral and neuropharmacological actions of drugs of abuse.

**Grading status:** Letter grade.

**PSYC 708. Seminar in the Biological Foundations of Psychology. 3 Credits.**

Permission of the instructor. Limited to graduate students in psychology and neurobiology. Lectures and seminar presentations on a wide range of topics in the area of physiological psychology.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade

**Same as:** NBIO 708.

**PSYC 709. Seminar in Theoretical-Experimental Psychology. 1-3 Credits.**

Lectures, discussions, and seminar presentations on current topics in experimental psychology.

**Grading status:** Letter grade.

**PSYC 719. Seminar in Experimental Health Psychology. 3 Credits.**

An in-depth treatment of research topics in behavioral and biological aspects of health psychology.

**Grading status:** Letter grade.

**PSYC 720. Research Seminar in Addiction Science I. 3 Credits.**

Graduate standing in psychology required. Students design and conduct a supervised research project and engage in critical discussion of research performed by other students and faculty.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 721. Research Seminar in Addiction Science II. 3 Credits.**

Graduate standing in psychology required. Students design and conduct a supervised research project and engage in critical discussion of research performed by other students and faculty.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 738. Neurons to Neighborhoods: Contributions to Neurobiological Development and Behavioral Consequences. 3 Credits.**

This course provides an overview of what the field of human neuroscience has revealed about neural structure and function with an eye to examining individual differences. Current knowledge about the neural mechanisms supporting cognitive and emotional function will be investigated in depth through chapters, review articles, and empirical studies.

**Grading status:** Letter grade.

**PSYC 739. Cognitive Neuroscience. 3 Credits.**

This course will highlight recent research regarding the cognitive and neural architecture of human memory or attention, with the emphasis placed on studies using cognitive neuroscience methods (e.g. fMRI, EPRs).

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 740. Seminar in Cognitive Psychology. 3 Credits.**

Permission of the instructor. Discussion and critical evaluation of various theories of thinking; theories of concept formation, problem solving, and reasoning.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 741. Professional Development for Careers in Research. 3 Credits.**

Graduate standing required. This course covers research strategies, research collaboration, giving talks, writing review papers, writing research reports, the peer-review editorial process, the grant-proposal process, the academic job search process, and nonacademic career.

**Grading status:** Letter grade.

**PSYC 742. Attention. 3 Credits.**

Graduate standing in psychology required. This course will introduce the major issues in attention research and highlight recent work examining the neural mechanisms of attention and its interactions with other cognitive and social-cognitive processes.

**Grading status:** Letter grade.

**PSYC 743. Cognitive Aging. 3 Credits.**

This course examines theories of human cognitive aging and how these theories seek to explain age-group differences in various domains of cognitive functioning (e.g., episodic memory, language, judgment).

**Grading status:** Letter grade.

**PSYC 744. Psycholinguistics. 3 Credits.**

Graduate standing in psychology required. This seminar addresses the mental processes underlying human's ability to use language at a number of levels. Specific topics vary.

**Grading status:** Letter grade.

**PSYC 746. Seminar in Cognitive Psychology - Human Memory. 3 Credits.**

Selective overview of topics in the study of human memory Course will examine the findings from laboratory research to gain a better understanding of memory structure and organization.

**Grading status:** Letter grade.

**PSYC 750. Research Seminar in Cognitive Psychology. 3 Credits.**

Graduate standing in psychology required. Students conduct a supervised research project in cognitive psychology, and participate in discussion of current research and related ethical and methodological issues.

**Grading status:** Letter grade.

**PSYC 751. Research Seminar in Cognitive Psychology. 3 Credits.**

Graduate standing in psychology required. Students conduct a supervised research project in cognitive psychology, and participate in discussion of current research and related ethical and methodological issues.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 760. Advanced Cognitive Development. 3 Credits.**

This course covers the development of attention, perception, learning, memory, thinking, and language, beginning in infancy and covering the life-span from both information processing and Baldwin-Piaget approaches.

**Grading status:** Letter grade.

**PSYC 761. Advanced Social Development. 3 Credits.**

Current thinking and research relevant to social, emotional, and personality development across the life span. Topics include parent-child interaction, peer relations, aggression, competence, sex roles, and gender differences.

**Grading status:** Letter grade.

**PSYC 762. Developmental Psychology: Methodology I. 3 Credits.**

Philosophical and sociological perspectives on research in developmental psychology, with specific applications to ongoing projects. As announced.

**Grading status:** Letter grade.

**PSYC 763. ETHICS AND PROFESSIONAL ISSUES IN DEVELOPMENTAL PSYCHOLOGY. 3 Credits.**

The purpose of this course is to provide an introductory knowledge base of ethical and professional issues that guide the field of Psychology, with specific focus on the field of Developmental Psychology.

**Grading status:** Letter grade.

**PSYC 766. Developmental Psychobiology. 3 Credits.**

Provides an introduction to psychobiological research, focusing on early development in animals. Topics include embryology, developmental neurobiology, the development of sensory and communication systems, and social behavior. As announced.

**Grading status:** Letter grade.

**PSYC 767. Advanced Family Theory and Research. 3 Credits.**

Research related to family processes, especially regarding the developmental consequences of varying family environments on children. Topics include divorce, cognitive development, single parents, parental employment, discipline, cultural context.

**Grading status:** Letter grade.

**PSYC 768. Seminar in Developmental Psychology. 3 Credits.**

Permission of the instructor. Intensive study of selected topics in developmental psychology.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics.

**Grading status:** Letter grade.

**PSYC 780. Developmental Psychology Forum. 1 Credit.**

Permission of the instructor. Presentations of research by faculty, students, and visitors; discussion of professional topics.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.



**PSYC 781. Proseminar in Developmental Science. 3 Credits.**

Intensive study of selected topics in human development that are being explored by members of the Carolina Consortium on Human Development staff.

**Requisites:** Prerequisite, permission of the instructor.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 790. History of Psychology. 3 Credits.**

Review of the history of major areas of psychology, with special emphasis on the conceptual and methodological underpinnings of the discipline.

**Grading status:** Letter grade.

**PSYC 791. Special Readings in Psychology. 3 Credits.**

Permission of the instructor. Intended for advanced graduate students.

**Grading status:** Letter grade.

**PSYC 792. Professional Problems in Psychology. 1 Credit.**

Permission of the instructor. Consideration of problems facing academic psychologists.

**Grading status:** Letter grade.

**PSYC 793. Laboratory in College Teaching. 1 Credit.**

Specific training in presentational and interpersonal skills needed by college teachers, such as planning, lecturing, discussing, motivating, and evaluating.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 795. Functional Magnetic Resonance Imaging. 3 Credits.**

This course provides a comprehensive and rigorous introduction to the technique of functional magnetic resonance imaging (fMRI). Students will learn the basic physics underlying MRI; the biological principles of fMRI, the principles of experimental design, data analysis, the use of available software packages, and special considerations for patient research.

**Grading status:** Letter grade.

**PSYC 796. Seminar in Biomedical Imaging Science. 3 Credits.**

This course serves as a gateway course to the Graduate Certificate in Biomedical Imaging Science. This course offers an introduction to the most common imaging modalities, including MR, CT, PET, SPECT, ultrasound, and optical imaging. Lectures include discussions of hardware, physics, as well as pre-clinical and clinical applications.

**Grading status:** Letter grade

**Same as:** BMME 796.

**PSYC 803. Empirically Validated Approaches to Child and Family Psychotherapy. 3 Credits.**

Graduate status in clinical psychology required. This course covers the research bases and clinical application of psychotherapeutic interventions that have demonstrated empirical validity for assisting children and families.

**Grading status:** Letter grade.

**PSYC 804. Empirically Validated Approaches to Adult Psychotherapy. 3 Credits.**

Graduate status in clinical psychology required. This course covers the research bases and clinical application of psychotherapeutic interventions that have demonstrated empirical validity for assisting adult clients.

**Grading status:** Letter grade.

**PSYC 806. Clinical Research Methods. 3 Credits.**

Graduate status in clinical psychology required. Analysis of clinical and personality research in terms of their contribution to knowledge, their limitations, possibilities for their improvement, further research they suggest, etc. Preparation of individual research proposals for class presentation and critical evaluation. Three hours a week.

**Grading status:** Letter grade.

**PSYC 807. Clinical Research Seminar. 1 Credit.**

Graduate standing in clinical psychology required. Designing and presenting research proposals in individual students' research areas in oral and written form. Critiquing research proposals. Research ethics and preparing and evaluating protocols for ethical review.

**Requisites:** Prerequisite, PSYC 806.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 809. Adult Psychopathology. 3 Credits.**

First-year graduate status in clinical psychology required. The major forms of psychopathology are examined within a development framework.

**Grading status:** Letter grade.

**PSYC 810. Developmental Psychopathology. 3 Credits.**

First-year graduate status in clinical psychology required. The major forms of psychopathology are examined within a development framework.

**Grading status:** Letter grade.

**PSYC 811. Adult Practicum. 3 Credits.**

Second-year graduate status in clinical psychology required. Supervised experience in psychological assessment and psychotherapy. Six to eight laboratory hours a week.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 812. Child and Adolescent Practicum. 3 Credits.**

Second-year graduate status in clinical psychology required. Supervised experience in psychological assessment and psychotherapy. Six to eight laboratory hours a week.

**Grading status:** Letter grade.

**PSYC 813. Advanced Adult Assessment. 3 Credits.**

Graduate standing in clinical psychology required. Consideration of how various forms of assessment data can be utilized in understanding the structure and dynamics of adult personalities; problems of differential diagnosis, brain damage, etc., are also considered. Two lecture and two laboratory hours a week.

**Grading status:** Letter grade.

**PSYC 814. Assessment Across the Lifespan. 3 Credits.**

Theory, research, and application of objective and projective techniques for behavioral, emotional, psychiatric, interpersonal, and social cognitive assessment of cases across the lifespan (e.g., child, adolescent, adult). Two lecture and two laboratory hours a week.

**Grading status:** Letter grade.

**PSYC 815. Ethics and Practice in Clinical Psychology. 3 Credits.**

Graduate standing in clinical psychology required. A survey and discussion of the ethical and legal issues that clinical psychologists confront in a variety of professional settings.

**Grading status:** Letter grade.

**PSYC 817. Advanced Adult Practicum and Professional Ethics. 3 Credits.**  
Supervised clinical work in an area of particular interest to the student. Clinical activity is coordinated with reading and discussion of literature or professional ethics.

**Requisites:** Prerequisites, PSYC 811 and 812.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics.

**Grading status:** Letter grade.

**PSYC 818. Advanced Child/Adolescent Practicum and Professional Ethics. 3 Credits.**

Individualized clinical practicum for advanced doctoral students in clinical psychology. Supervised experience in psychotherapy, psychological assessment, and consultation. May be repeated for credit.

**Requisites:** Prerequisite, PSYC 817.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics.

**Grading status:** Letter grade.

**PSYC 822. Seminar in Clinical Psychology. 1-3 Credits.**

Lectures, discussions, and seminar presentations on current topics in clinical psychology.

**Grading status:** Letter grade.

**PSYC 823. Clinical Supervision and Consultation: Theory, Research, and Practice. 3 Credits.**

This course will familiarize fourth year clinical psychology doctoral students with methods and models of clinical supervision and consultation in an ethical and multicultural context. Includes a didactic seminar component and an applied supervision training component. Restricted to fourth year doctoral students in clinical psychology.

**Repeat rules:** May be repeated for credit. 3 total credits. 1 total completions.

**Grading status:** Letter grade.

**PSYC 825. Advanced Clinical Practicum. 1-3 Credits.**

Individualized clinical practicum for advanced doctoral students in clinical psychology, namely: supervised experience in psychotherapy, psychological assessment, and consultation. Practicum experience is paired with a seminar within the academic program of the clinical psychology doctoral program to discuss external community practicum experiences and relate these to academic coursework and earlier clinical training.

**Requisites:** Prerequisite, PSYC 811 or PSYC 812.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 827. Multiculturalism and Clinical Psychology. 3 Credits.**

Graduate standing in psychology and permission of the instructor.

The development and format of this course is guided by current 'best practice' in multicultural education in emphasizing three overriding goals: awareness and changes in attitudes and beliefs.

**Grading status:** Letter grade.

**PSYC 828. Child/Adolescent Assessment Practicum. 1 Credit.**

Graduate standing in psychology and permission of the instructor. This course provides students with an opportunity to integrate their academic foundation in clinical psychology assessment knowledge skills, ethics, and values in an applied practice setting with diverse clients.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 829. Clinical Psychological Assessment. 3 Credits.**

Introduction to the principles and practices of evidence-based assessment for clinical psychology.

**Grading status:** Letter grade.

**PSYC 830. Statistical Methods in Psychology I. 4 Credits.**

Required preparation, a course in introductory statistics. Data analysis, sampling, applied probability, elementary distribution theory, principles of statistical inference.

**Grading status:** Letter grade.

**PSYC 831. Statistical Methods in Psychology II. 4 Credits.**

Statistical estimation and hypothesis testing for linear models (ANOVA, ANCOVA, regression analysis); statistical models in the design and analysis of experiments.

**Requisites:** Prerequisite, PSYC 830.

**Grading status:** Letter grade.

**PSYC 833. Intra-individual Analysis. 3 Credits.**

This course is designed for graduate students seeking training in quantitative methods for analyzing a range of data often encountered in psychological and neural sciences studies where numerous observations are collected across time per individual. This data enables the possibility for intra-individual variability analysis (IVA), or how to quantitatively describe individuals' dynamic process.

**Requisites:** Prerequisites, PSYC 830 and 831; Recommended preparation, structural equation modeling, and permission of instructor.

**Grading status:** Letter grade.

**PSYC 834. Machine Learning. 3 Credits.**

This course is an introductory seminar on the theory and application of machine learning to data analysis. A lot of research in psychology has focused on hypothesis-driven, explanatory approaches to data analysis. Machine learning could supplement a researcher's analytic toolbox to explore patterns and assess the predictive value of various combinations of variables on an outcome.

**Requisites:** Prerequisites, PSYC 830 and PSYC 831.

**Grading status:** Letter grade.

**PSYC 838. Regression Models with Categorical Dependent Variables. 3 Credits.**

The goal of the course is to provide a firm foundation in the regression analysis of binary, ordinal, nominal, or count dependent variables. In addition, the course provides helpful background to those using other methods with categorical outcomes (e.g., item response theory, structural equation models). Students should have a solid background in OLS regression analysis and some familiarity with matrix notation.

**Grading status:** Letter grade.

**PSYC 839. Quantitative Research Methods. 3 Credits.**

Quantitative Research Methods explores the many dimensions of experimental and quasi-experimental design in the psychological sciences with a specific focus on topics that commonly arise in quantitative research. Exemplar topics include true- and quasi-experimental design, causal inference, sampling, randomization, self-selection, Monte Carlo computer simulation design, internal and external validity, and ethics.

**Requisites:** Prerequisites, PSYC 830 and 831; Permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 840. Computational Statistics. 3 Credits.**

Current computational environments for data analysis and visualization are taught and used as a basis for understanding current (and creating new) methods of computational statistics and dynamic statistical graphics.

**Requisites:** Prerequisite, PSYC 831; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 842. Test Theory and Analysis. 3 Credits.**

Survey of classical test theory and more recent developments in item analysis and test construction.

**Requisites:** Prerequisite, PSYC 831.

**Grading status:** Letter grade.

**PSYC 843. Factor Analysis. 3 Credits.**

Advanced topics in factor analytic models, multivariate correlational models, and analysis of covariance structures as applied in behavioral research.

**Requisites:** Prerequisite, PSYC 831; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 844. Structural Equation Modeling. 3 Credits.**

Examination of a wide range of topics in covariance structure models, including their history, underlying theory, controversies, and practical use with major computer packages.

**Requisites:** Prerequisite, PSYC 831; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 845. Longitudinal Structural Equation Modeling. 3 Credits.**

Latent curve modeling is a structural equations-based method for analyzing longitudinal data. Equal emphasis is placed on the statistical model and applications to real data.

**Grading status:** Letter grade.

**PSYC 846. Multilevel Modeling. 3 Credits.**

This course demonstrates how multilevel models (or hierarchical linear models) can be used to appropriately analyze clustered data (i.e. persons within groups) and/or repeated measures data in psychological research.

**Requisites:** Prerequisites, PSYC 830 and 831.

**Grading status:** Letter grade.

**PSYC 847. Advanced Topics in Quantitative Psychology: Measurement. 1 Credit.**

This is a one-credit hour seminar focused on contemporary topics in advanced quantitative psychology with a focus on psychometrics and measurement.

**Requisites:** Prerequisites, PSYC 830 and 831; Permission of the instructor for students lacking the prerequisite.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 3 total credits. 3 total completions.

**Grading status:** Letter grade.

**PSYC 848. Advanced Topics in Quantitative Psychology: Modeling. 1 Credit.**

This is a one-credit hour seminar focused on contemporary topics in advanced quantitative psychology with a focus on statistical and mathematical modeling.

**Requisites:** Prerequisites, PSYC 830 and 831; Permission of the instructor for students lacking the prerequisite.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics; 3 total credits. 3 total completions.

**Grading status:** Letter grade.

**PSYC 849. Advanced Topics in Quantitative Psychology: Computation. 1 Credit.**

This is a one-credit hour seminar focused on contemporary topics in advanced quantitative psychology with a focus on computational statistics.

**Requisites:** Prerequisites, PSYC 830 and 831; Permission of the instructor for students lacking the prerequisite.

**Repeat rules:** May be repeated for credit. 3 total credits. 1 total completions.

**Grading status:** Letter grade.

**PSYC 850. Quantitative Psychology Forum. 1 Credit.**

Presentations of research by faculty, students, and visitors; discussion of professional topics such as ethics, the publication process, research funding, and the reviewing of articles.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 859. Seminar in Quantitative Psychology. 1-3 Credits.**

Lectures, discussions, and seminar presentations on current topics in quantitative psychology.

**Repeat rules:** May be repeated for credit; may be repeated in the same term for different topics.

**Grading status:** Letter grade.

**PSYC 860. Directed Research Seminar in Social Psychology. 3 Credits.**

Graduate status in social psychology or permission of the instructor. Directed research problems and seminar discussion of related issues.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 861. Directed Research Seminar in Social Psychology. 3 Credits.**

First-year graduate status in social psychology or permission of the instructor. Directed research problems and seminar discussion of related issues.

**Grading status:** Letter grade.

**PSYC 862. Advanced Social Psychology. 3 Credits.**

Intensive study of interdependence theory and research of interpersonal relationships.

**Requisites:** Prerequisite, PSYC 867; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 863. Methods of Social Psychology. 3 Credits.**

Methods of investigation in social psychology, with primary emphasis upon experimental design and the nature of the experimental situation.

**Requisites:** Prerequisite, PSYC 867; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 864. Topics in Attitude Research. 3 Credits.**

A critical examination of selected topics in attitude theory and change.

**Requisites:** Prerequisite, PSYC 867; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 865. Methods of Applied Social Psychology. 3 Credits.**

Graduate standing required. Supervised research experience in an applied setting and accompanying methods of non-laboratory research, including nonquantitative methods of social psychology and evaluation of quasi-experimental and nonexperimental designs.

**Grading status:** Letter grade.

**PSYC 866. Interpersonal Processes and Close Relationships. 3 Credits.**

Intensive study of the processes by which adult close relationships are initiated and developed.

**Requisites:** Prerequisite, PSYC 867; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 867. Advanced Survey of Social Psychology. 3 Credits.**

Graduate standing or permission of the instructor. Survey of research and theories of attitude change, interpersonal relations, and small groups.

**Grading status:** Letter grade.

**PSYC 868. Seminar in Social Psychology. 3 Credits.**

Prerequisite, PSYC 867; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 869. Advanced Social Cognition. 3 Credits.**

Advanced theory and research in social psychology that explores the cognitive processes underlying social phenomena. Specific topics include attributions, emotions, heuristics, self, goals, motives, and others.

**Requisites:** Prerequisite, PSYC 867; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 870. Psychology of Emotions. 3 Credits.**

Graduate standing required. Seminar featuring research and theory on emotions. It stretches across traditional psychological subdisciplines because emotions are complex, multiply determined phenomena.

**Grading status:** Letter grade.

**PSYC 871. Advanced Group Processes. 3 Credits.**

Discusses both classic and contemporary theory and research related to group processes, including group performance, motivation, decision-making, social dilemmas, social justice, and other intragroup and intergroup phenomena.

**Requisites:** Prerequisite, PSYC 867; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 872. Seminar in Political Psychology. 3 Credits.**

Graduate standing required. This course surveys research in political psychology. Topics may include personality and politics, political values and attitudes, voter behavior, candidate evaluation, and the role of emotion in political decision-making.

**Grading status:** Letter grade.

**PSYC 873. Seminar on Prejudice and Stereotyping. 3 Credits.**

Graduate standing required. Seminar reviews classic and current literature on the psychology of stereotyping and prejudice. Focus is on causes, consequences, and mental processes that maintain social biases.

**Grading status:** Letter grade.

**PSYC 874. Social Judgment and Decision Making. 3 Credits.**

Discusses both classic and contemporary theory and research related to social judgment and decision making, including basic psychological processes, heuristics and biases, models of decision making, and social influences.

**Requisites:** Prerequisite, PSYC 863; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 875. Advanced Seminar in Positive Psychology. 3 Credits.**

Positive Psychology represents a scientific approach to understanding positive aspects of life, including character strengths and human flourishing. This seminar builds students' empirical skills in this vibrant area of inquiry.

**Requisites:** Prerequisite, PSYC 870.

**Grading status:** Letter grade.

**PSYC 876. Graduate Seminar in Social and Affective Neuroscience. 3 Credits.**

This course will provide students with an understanding of the more basic biological (and psychological) mechanisms that contribute to social processes such as stereotypes, person perception, moral judgments, and emotions. The course will prepare students to be informed consumers of contemporary neuroscience research.

**Requisites:** Prerequisite, PSYC 869 or PSYC 870; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 880. Social Psychobiology. 3 Credits.**

Psychological processes are increasingly being appreciated as key predictors of morbidity, mortality, and well-being. But how, exactly, do factors in the social environment 'get under the skin' to influence health? This is the main question we will investigate in this course. We will accomplish this primarily through extensive reading and discussion of journal articles and presentations on a variety of biomarkers, physiological processes, and pharmacological approaches.

**Grading status:** Letter grade.

**PSYC 888. Moral Psychology. 3 Credits.**

Course explores moral judgments and behavior; examines morality and cognition, emotion, mind perception, and religion; covers debates between reason vs. intuition, utilitarianism vs. deontology, and single vs. multiple domain theories. Discusses real world applications (courtroom, torture) and related concepts (free will).

**Requisites:** Prerequisites, PSYC 869 or PSYC 870; permission of the instructor for students lacking the prerequisite.

**Grading status:** Letter grade.

**PSYC 889. Professional Development in Psychology. 3 Credits.**

This course offers training and discussion in a wide array of skills rarely covered within formal academic curricula, including: how to select a career path, financial planning, media training, balancing personal/professional lives, applying for postdocs, writing research statements, getting tenure, multiculturalism, applying for grants, consulting, etc.

**Grading status:** Letter grade.

**PSYC 890. Case Formulation and Psychotherapy Integration. 3 Credits.**

Required preparation, third year or beyond in clinical psychology doctoral program. This advanced seminar provides clinical psychology graduate students with case formulation skills in the context of exposure to psychotherapy integration and contemporary evidence-based treatment models.

**Grading status:** Letter grade.

**PSYC 990. Practicum in Psychology and Neuroscience. 1-3 Credits.**

This course provides students with hands-on experience in an area of psychology and neuroscience relevant to the student's research interests through projects and work outside the University, such as an internship experience. The course exposes students to a different range of problems and application areas than they would encounter in the classroom, which is an essential part of their graduate study. The student is to be registered for the course while working.

**Requisites:** Prerequisite, Approval from instructor in advance.

**Repeat rules:** May be repeated for credit. 12 total credits. 12 total completions.

**Grading status:** Letter grade.

**PSYC 991. Advanced Research. 3 Credits.**

Six laboratory hours a week.

**Repeat rules:** May be repeated for credit.

**Grading status:** Letter grade.

**PSYC 993. Master's Research and Thesis. 3 Credits.****PSYC 994. Doctoral Research and Dissertation. 3 Credits.**