Fall 2019  
UNC Department of Psychology and Neuroscience  
Undergraduate Courses

*For the complete list of undergraduate Psychology courses, please refer to the Undergraduate Bulletin*

First-Year Seminars (FYS)

NSCI 071: Plasticity and the Brain (3)  
Instructor: Dr. Joseph Hopfinger  
This course will introduce you to the recent research and debate regarding neural plasticity and the ability of the healthy adult brain to change. Goals of this course include gaining knowledge of a new area of research in the psychological and neural sciences, developing skills in going beyond general-audience books and media coverage to critically evaluate research sources (scientific journal articles), and presenting your own well-researched ideas in written and oral formats.

PSYC 072: Women’s Lives and Experiences (3)  
Instructor: Dr. Anna Bardone-Cone  
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.

Lower-Level Undergraduate Courses (PSYC 100-399)

PSYC 101: General Psychology (3)  
Instructor: Dr. Charles Wiss (001), Dr. Jeannie Loeb (002 & 003)  
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.

NSCI 175: Introduction to Neuroscience (3)  
Instructor: Dr. Rachel Penton (001), Dr. Sabrina Robertson (002)  
Prerequisites: PSYC 101  
Neuroscience is a field that seeks to understand the structure and function of the nervous system and brain. This course provides a broad overview of the field. Topics include current methods used in neuroscience, the function of nerve cells, neuroanatomy of the mammalian brain, neuroplasticity, and diseases of the brain.

PSYC 210: Statistical Principles of Psychological Research (3)  
Instructor: Dr. Beth Jordon (001), Dr. Viji Sathy (002)  
Prerequisite: PSYC 101  
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.
PSYC 220: Biopsychology (3)
Instructor: Rebecca Stephens (001), Jacqueline Paniccia (002)
Prerequisite: PSYC 101
Study of the biological basis of behavior. Emphasis will be placed on human findings and applications.

NSCI 222: Learning (3)
Instructor: Dr. Sabrina Robertson (001)
Prerequisite: PSYC 101
Topics in conditioning, verbal learning, memory, and problem solving.

NSCI 225: Sensation and Perception (3)
Instructor: Dr. Vicki Chanon (001), Zachary Buchin (002)
Prerequisite: PSYC 101
Topics in vision, audition, and the lower senses. Receptor mechanisms, psychophysical methods, and selected perceptual phenomena will be discussed.

NSCI 225H: Sensation and Perception (3)
Instructor: Dr. Peter Gordon (001)
Prerequisite: PSYC 101
Honors version. Topics in vision, audition, and the lower senses. Receptor mechanisms, psychophysical methods, and selected perceptual phenomena will be discussed.

PSYC 230: Cognitive Psychology (3)
Instructor: Dr. Vicki Chanon (001), Kathryn Weatherford (002), Shaina Roth (003)
Prerequisite: PSYC 101
Topics in attention; memory; visual, auditory, and other forms of information processing; decision making; and thinking.

PSYC 242: Introduction to Clinical Psychology (3)
Instructor: Dr. Desiree Griffin (001), Jacquelynne Genzlinger (002)
Prerequisite: PSYC 101
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.

PSYC 245: Abnormal Psychology (3)
Instructor: Dr. Jon Abramowitz (001), Yun Chen (002), Danielle Weber (003), Alexandra Wojda (004)
Prerequisite: PSYC 101
Major forms of behavior disorders in children and adults, with an emphasis on description, causation, and treatment.

PSYC 250: Child Development (3)
Instructor: TBD (001), Tiffany Foster (002)
Prerequisite: PSYC 101
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.

PSYC 260: Social Psychology (3)
Instructor: Dr. Steven Buzinski (001), TBD (002), TBD (003), TBD (004), TBD (005)
Prerequisite: PSYC 101
Introductory survey of experimental social psychology covering attitudes, interpersonal processes, and small groups.

**PSYC 270: Laboratory Research in Psychology (4)**
Instructor: Dr. Patrick Harrison (001)
Prerequisites: PSYC 101, and 210 or 215
Experiments in biological, behavioral, cognitive, developmental, personality, and social psychology will be discussed, prepared, performed, and reported. One lecture hour and four laboratory hours per week.

**NSCI 320: Neuropsychopharmacology (3)**
Instructor: Dr. Rachel Penton (001)
Prerequisites: PSYC 101
This course will examine the use of drugs to alter behavior. Social implications of drug use and methods for preventing and treating drug abuse will also be considered.

**Upper-Level Undergraduate Courses (PSYC 400-699)**

**NSCI 421: Principles of Brain Circuits (3)**
Instructor: Dr. William Snider
Prerequisites: NSCI 175, or both PSYC 101 and PSYC 220; BIOL 101 recommended
This course is designed for upper level undergraduates who are interested in understanding how brain circuits control behavior. A major focus will be the new technique of optogenetics that is revolutionizing our approach to systems neuroscience. Circuits that control movement, sensation, sleep, memory, and homeostasis will be explored in detail. Points of emphasis will be circuits mediating pain as related to actions of opiates and circuits mediating feeding behavior as related to obesity.

**NSCI 427: Neurobiology of Aging (3)**
Instructor: Dr. Kelly Giovanello
Prerequisites: PSYC 175 or 220
This course will survey clinical and experimental literature regarding the neurobiology of aging, considering different theories of aging, how aging is studied in the laboratory, and recent findings. Biochemical, molecular, physiological, and behavioral changes associated with both "normal" and pathological aging will be considered.

**PSYC 432: Psychology of Language (3)**
Instructor: Dr. Jennifer Arnold (001)
Prerequisites: PSYC 101 and 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.

**PSYC 438: Psychology of Language (3)**
Instructor: Dr. Jennifer Arnold (001)
Prerequisites: PSYC 270, at least one course in linguistics (e.g. PSYC 432)
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.
PSYC 469: Evolution and Development of Biobehavioral Systems (3)
Instructor: Dr. Jean-Louis Gariepy (001 & 002)
Prerequisites: BIOL 101 and PSYC 101, 210, or 215
Examines the evolution and development of behavior patterns and their physiological substrates.

PSYC 490: Clinical Research: Design, Analyze, Disseminate (3)
Instructor: Dr. Desiree Griffin
Prerequisites: PSYC 210 and 270
In this project-based CURE course, students will work with a community partner to identify a clinical research question that will contribute to our understanding and treatment of psychological health and human behavior. Using an iterative method reflective of working in a clinical psychology research lab, students will collaborate with one another and community partners to develop hypotheses for the project, to prepare and analyze the data, to propose interpretations of the data, and to present their results.

PSYC 493: Internship in Psychology (3)
Instructor: Dr. Steven Buzinski (001)
Prerequisites: PSYC 101 and completion of application process

PSYC 501: Theoretical, Empirical Perspectives on Personality (3)
Instructor: Dr. Charlie Wiss (001)
Prerequisite: PSYC 101
An in-depth coverage of the traditional clinically based personality theories of the early 20th century contrasted with more recent empirically based perspectives.

PSYC 502: Psychology of Adulthood and Aging (3)
Instructor: Dr. Elizabeth Jordon
Prerequisite: PSYC 101 and 250
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.

PSYC 504: Health Psychology (3)
Instructor: Dr. Karen Gil (001 & 002)
Prerequisites: PSYC 101 and PSYC 245
An in-depth coverage of psychological, biological, and social factors that may be involved with health.

PSYC 517: Addiction (3)
Instructor: Dr. Stacey Daughters
Prerequisites: PSYC 101, 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.

PSYC 530: Design and Interpretation of Psychological Research (3)
Instructor: Dr. Viji Sathy
Prerequisites: PSYC 101 and 270
This is a course-based undergraduate research experience (CURE) class in which students will learn about methodological principles underlying psychology through hands-on project work. Students will team up to pose a novel question, gather and analyze data, and report findings on a topic relevant to our campus community. Students can expect to gain scientific skills as well as skills in collaboration and communication.
PSYC 532: Quantitative Psychology (3)
Instructor: Dr. Patrick Curran
Prerequisites: PSYC 210, SOCI 252, or STOR 155
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.

PSYC 533H: The General Linear Model in Psychology (3)
Instructor: Dr. Dan Bauer
Prerequisites: ECON 400 or PSYC 210 or 215 or SOCI 252 or STOR 155
Consideration of multiple regression and the general linear model in psychological research, including hypothesis testing, model formulations, and the analysis of observational and experimental data.

PSYC 559: Applied Machine Learning (3)
Instructor: Dr. Oscar Gonzalez
Prerequisites: PSYC 210
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.

PSYC 564: Interpersonal Processes (3)
Instructor: Dr. Sara Algoe
Prerequisites: PSYC 101, 210 or 215, and 260
Intensive coverage of normal interpersonal processes, focusing on the dyad.

PSYC 570: The Social Psychology of Self-Regulation (3)
Instructor: Dr. Steve Buzinski
Prerequisites: PSYC 101, 210 or 215, and 260. 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.

PSYC 601: Psychology and Law (3)
Instructor: Dr. Desiree Griffin
Prerequisites: PSYC 101 and 210 or 215
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.

PSYC 602: Evolutionary Psychology (3)
Instructor: Dr. Charles Wiss
Prerequisites: PSYC 101
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.

PSYC 693H: Honors in Psychology I (3)
Instructor: Dr. Beth Kurtz-Costes (001 & 002)
By application to the psychology honors committee and enrollment in the honors program. To be taken 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.