**Fall 2022**

**UNC Department of Psychology and Neuroscience**

**Undergraduate Courses**

*For the complete list of undergraduate Psychology courses, please refer to the Undergraduate University Catalog.*

*For the complete list of undergraduate Neuroscience courses, please refer to the Undergraduate University Catalog.*

**First-Year Launch** (FYL)

**PSYC 101: General Psychology (3)**
Instructor: Dr. Charles Wiss (001)
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. First-Year Launch course.

**Lower-Level Undergraduate Courses** (PSYC 100-399)

**PSYC 101: General Psychology (3)**
Instructor: Dr. Jeannie Loeb (001) & TBD (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. Monica Gaudier-Diaz (001), Dr. Sabrina Robertson (002), Dr. Shveta Parekh (003 & 004)
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 180: Social Media, Technology, and the Adolescent Brain (3)**
Instructor: Dr. Rosa Li (001)
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.

**PSYC 210: Statistical Principles of Psychological Research (3)**
Instructor: Dr. Patrick Harrison (001) & Dr. Natasha Parikh (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.
PSYC 220: Biopsychology (3)
Instructor: TBD (001), Alexis League (002), Gillian Barkell (003), Sophie Bendrath (004)
Prerequisite: PSYC 101
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.

NSCI 222: Learning (3)
Instructor: Dr. Vicki Chanon (001), Dr. Sara Estle (002), Eden Harder (003)
Prerequisite: PSYC 101 or NSCI 175
Topics in Pavlovian and operant (instrumental) conditioning, learning theory, higher order cognitive learning, and application of those principles to mental-health related situations. Previously offered as PSYC 222.

NSCI 225: Sensation and Perception (3)
Instructor: Dr. Vicki Chanon (001), Dr. Sara Estle (002)
Prerequisite: PSYC 101 or NSCI 175
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), TBD (002)
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), TBD (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: Psychopathology (3)
Instructor: Dr. Desiree Griffin (001), Dr. Don Baucom (002), Emily Carrino (003), Alexandra Wojda-Burlij (004)
Prerequisite: PSYC 101
Major forms of behavior disorders in children and adults, with an emphasis on description, causation, and treatment.

PSYC 245H: Psychopathology (3)
Instructor: Dr. Charles Wiss (001)
Prerequisite: PSYC 101
Major forms of behavior disorders in children and adults, with an emphasis on description, causation, and treatment. Honors version.

PSYC 250: Child Development (3)
Instructor: Dr. Rosa Li (001)
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), Joseph Leshin (002), Jieni Zhou (003), Tatum Jolink (004), Mallory Feldman (005), Taylor West (006), Connor O’Fallon (007)  
Prerequisite: PSYC 101  
Introductory survey of experimental social psychology covering attitudes, interpersonal processes, and small groups.

**PSYC 270: Laboratory Research in Psychology (3)**  
Instructor: Dr. Patrick Harrison (001), Dr. Natasha Parikh (002)  
Prerequisites: PSYC 101  
Experiments in biological, behavioral, cognitive, developmental, personality, and social psychology will be discussed, prepared, performed, and reported.

**NSCI 274: Neurophysiology Data Science Lab (3)**  
Instructor: Dr. Rachel Penton (001 & 002)  
Prerequisites: NSCI 175 and either COMP 110 or COMP 116  
In this research-based course, students will design novel experiments to examine sex differences in large neurophysiology datasets. Students will use Python to access and analyze data. Students will also learn research literature analysis, experimental design, data analysis, collaboration, and presentation skills by developing a research proposal, paper, and poster. Students may only receive credit for one of: NSCI 274, 276, 278 and 279. Restricted to Neuroscience Majors only.

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

**NSCI 421: Principles of Brain Circuits (3)**  
Instructor: Dr. William Snider (001)  
Prerequisites: NSCI 175 or PSYC 220  
This course will explore 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, homeostasis, memory, and fear 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 (001)  
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 433: Behavioral Decision Theory (3)**  
Instructor: Dr. Rosa Li (001)  
Prerequisites: PSYC 101  
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.
NSCI 434: Cognitive Neuroscience (3)
Instructor: Dr. Joseph Hopfinger (001)
Prerequisites: one of the following: NSCI 175, PSYC 220, NSCI 222, NSCI 225 or PSYC 230
Introduction to cognitive neuroscience. Higher mental processes including attention, memory, language, and consciousness will be covered, with an emphasis on the neural mechanisms that form the substrates of human cognition. Previously offered as PSYC 434.

NSCI 439: Neuroimmunology (3)
Instructor: Dr. Monica Gaudier-Diaz (001)
Prerequisites: NSCI 175 or PSYC 220
The nervous and immune systems interact with each other in complex ways to influence behavior, health and well-being. In this course, we will examine the mechanisms by which these two systems interact. Further, we will cover how the nervous and immune systems function together to serve homeostasis, behavior and disease.

PSYC 471: The Study of Adolescent Issues and Development (3)
Instructor: Dr. Andrea Hussong (001)
Prerequisites: PSYC 101, 210, or 215, and 250
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.

PSYC 490: Current Topics in Psychology (3)
Instructor: Dr. Julian Rucker (001)
Prerequisites: PSYC 101
Various special areas of psychological study, offered as needed. Course may be repeated for credit.

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

NSCI 493: Internship in Neuroscience (3)
Instructor: Dr. Steven Buzinski (001)
Prerequisites: PSYC 101 and completion of application process
Karen M. Gil Internship Program course.

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 528: Clinical Research (3)
Instructor: Dr. Desiree Griffin (001)
Prerequisites: PSYC 101
This course focuses on understanding behavior for the purposes of assessment and treatment by asking questions and researching the answers. The goal of this course is to expose you to the empirical basis of the field of clinical psychology by having you work with a community partner to identify a question of interest, create a research design that will quantitatively or qualitatively address the research question, analyze the subsequent data, and disseminate the findings to the community.
PSYC 531: Tests and Measurement (3)
Instructor: Dr. Oscar Gonzalez (001)
Prerequisites: PSYC 101 and either PSYC 210 or 215
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.

PSYC 532H: Quantitative Psychology (3)
Instructor: Dr. Patrick Curran (001)
Prerequisites: PSYC 210, 215, 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.

PSYC 565: Stereotyping, Prejudice, and Discrimination (3)
Instructor: Dr. Keith Payne (001)
Prerequisites: PSYC 101, 260 and either PSYC 210 or 215
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.

PSYC 602: Evolutionary Psychology (3)
Instructor: Dr. Charles Wiss (001)
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. Kristen Lindquist (001)
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.

PSYC 693H: Honors in Neuroscience I (3)
Instructor: Dr. Sabrina Robertson (001)
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.