Fall 2018
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)**

**PSYC 054: (3) Families and Children**
Instructor: Dr. Shauna Cooper
The 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.

**PSYC 061: Drug Addiction: Fact and Fiction (3)**
Instructor: Dr. Kate Reissner
The course will tackle questions through classroom discussions, lectures, movies, writing assignments, and a visit to a research laboratory and a treatment facility. Students will be introduced to fundamental concepts in addiction research.

**PSYC 062: Positive Psychology: The Science of Optimal Human Functioning (3)**
Instructor: Dr. Barbara Fredrickson
This course invites students to explore the opportunities presented by the vibrant and emerging field of positive psychology.

**PSYC 068: Psychology of Emotion (3)**
Instructor: Dr. Kristen Lindquist
This first year seminar is designed for students interested in exploring the psychological study of emotion. Topics will 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, emotion and health.

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

**PSYC 101: General Psychology (3)**
Instructor: Dr. Jeannie Loeb (001), Dr. Charles Wiss (002), & Dr. Jeannie Loeb (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.
PSYC 175: Introduction to Neuroscience (3)
Instructor: Dr. Marsha Penner (001), Dr. Rachel Panton (002), and Dr. Sabrina Robertson (003)
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. Viji Sathy (001) & Dr. Patrick Harrison (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: Douglas Hermes (001), Dr. Sylvia Fitting (002), Jacqueline Paniccia (003), Darin Knapp (004), and Michel Companion (005)
Prerequisite: PSYC 101
Study of the biological basis of behavior. Emphasis will be placed on human findings and applications.

PSYC 222: Learning (3)
Instructor: Dr. Vicki Chanon (001) & Christina Lebonville (002)
Prerequisite: PSYC 101
Topics in conditioning, verbal learning, memory, and problem solving.

PSYC 225: Sensation and Perception (3)
Instructor: Dr. Mark Hollins (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.

PSYC 230: Cognitive Psychology (3)
Instructor: Dr. Kelly Giovanello (001), Sandy Zerkle (002), Kathryn Weatherford (003), and Giulia Pancani (004)
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: Kelsey Ludwig (001) & Katie Smith (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: Danielle Weber (001), Yun Chen (002), and Dr. Beril Ulku-Steiner (003)
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: Dr. Elizabeth Adams (001), Melissa Grimes (002), and Jean-Louis Gariepy (003)
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), Holly Shablack (002), Neil Hester (003) & Amelia Goranson (004)
Prerequisite: PSYC 101
Introductory survey of experimental social psychology covering attitudes, interpersonal processes, and small groups.

PSYC 270: Conducting Research in Psychology (4)
Instructor: Dr. Patrick Harrison (001)
Prerequisites: PSYC 101 and 210
This course will give students the opportunity to engage in psychological research by conducting a team-based research project. Students will also develop the skills required to critically evaluate research findings. Prerequisites: PSYC 101 and 210

PSYC 330: Introduction to Cognitive Science (3)
Instructor: Dr. Peter Gordon (001)
Prerequisites: PSYC 101, and 210 or 215
An introduction to the interdisciplinary study of the mind, intelligent behavior, information processing, and communication in living organisms and computers.

PSYC 390: Current Topics in Psychology: Neuropsychopharmacology (3)
Instructor: Dr. Rachel Penton (001)
Prerequisites: PSYC 101 and PSYC 220 or PSYC 315
This course will provide an introduction to the scientific study of neuropsychopharmacology, with an emphasis on drugs of abuse and pharmacological treatments for addiction, neurodegenerative disease, and neuropsychiatric illness. Both physiological and behavioral effects of drug actions will be examined.

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

PSYC 415: History of Neuroscience
Instructor: Dr. Marsha Penner (001)
Prerequisites: PSYC 220 or 315.
In this class, we will consider how neuroscience emerged as a multidisciplinary field. The class will cover key research findings that propelled the field forward. We will also delve into the autobiographies of some of the pioneering researchers who made these important discoveries.

PSYC 434: Cognitive Neuroscience (3)
Instructor: Dr. Vicki Chanon (001)
Prerequisites: PSYC 101, and 210 or 215; and one of PSYC 220, 222, 225, 230, or BIOL 450, 455
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.
PSYC 467: The Development of Black Children (3)
Instructor: Dr. Shauna Cooper (001)
Prerequisites: PSYC 101 and 250
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.

PSYC 471: The Study of Adolescent Issues and Development (3)
Instructor: Dr. Eva Telzer (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. William Snider (001)
Prerequisites: PSYC 220 or PSYC 315, or BIOL 202, 205, or 450
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.

PSYC 490: Applied Machine Learning in Psychology (3)
Instructor: Oscar Gonzalez (002)
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 493: Internship in Psychology (3)
Instructor: Dr. Steven Buzinski (001)
Prerequisites: PSYC 101 and completion of application process

PSYC 500: Developmental Psychopathology (3)
Instructor: Dr. Andrea Hussong (001) & Dr. Margaret Sheridan (002)
Prerequisites: PSYC 101, 245, and 250
A survey of theories bearing on atypical development and disordered behavior, and an examination of major child and adolescent behavior problems and clinical syndromes.

PSYC 501: Theoretical, Empirical Perspectives on Personality (3)
Instructor: Dr. Charles 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 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 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 567: Research in Positive Psychology (3)**
Instructor: Dr. Barbara Fredrickson (001)
Prerequisites: PSYC 101 and 270, and 210 or 215
Majors only. This advanced course in positive psychology is research intensive and intended as a capstone for majors in psychology.

**PSYC 569: Practical Wisdom from Advanced Social Psychology**
Instructor: Dr. Kurt Gray (001)
Prerequisites: PSYC 101, 260, and 270
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.

**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.