

PSYCHOLOGY (PSYC)

PSYC 001 Introduction to Experimental Psychology

This course provides an introduction to the basic topics of psychology including our three major areas of distribution: the biological basis of behavior, the cognitive basis of behavior, and individual and group bases of behavior. Topics include, but are not limited to, neuropsychology, learning, cognition, development, disorder, personality, and social psychology.

For BA Students: Living World Sector

One-term course offered either term

Activity: Lecture

1 Course Unit

PSYC 070 Psychology of Food

Taught by: Rozin

Activity: Seminar

1 Course Unit

Notes: Does not count for the Psych major. To apply: <https://www.curf.upenn.edu/spring-2018-bfs-seminars>

PSYC 097 Decision Theory

One-term course offered either term

Activity: Lecture

1 Course Unit

PSYC 109 Introduction to Brain and Behavior

Introduction to the structure and function of the vertebrate nervous system, including the physiological bases of sensory activity, perception, drive, motor control and higher mental processes. The course is intended for students interested in the neurobiology of behavior. Familiarity with elementary physics and chemistry will be helpful.

For BA Students: Living World Sector

One-term course offered either term

Activity: Lecture

1 Course Unit

PSYC 111 Perception

How the individual acquires and is guided by knowledge about objects and events in their environment.

One-term course offered either term

Prerequisite: PSYC 001 or COGS 001

Activity: Lecture

1 Course Unit

PSYC 127 Physiology of Motivated Behaviors

This course focuses on evaluating the experiments that have sought to establish links between brain structure (the activity of specific brain circuits) and behavioral function (the control of particular motivated and emotional behaviors). Students are exposed to concepts from regulatory physiology, systems neuroscience, pharmacology, and endocrinology and read textbook as well as original source materials. The course focuses on the following behaviors: feeding, sex, fear, anxiety, the appetite for salt, and food aversion. The course also considers the neurochemical control of responses with an eye towards evaluating the development of drug treatments for: obesity, anorexia/cachexia, vomiting, sexual dysfunction, anxiety disorders, and depression.

Taught by: Grill

One-term course offered either term

Prerequisite: PSYC 001

Activity: Lecture

1 Course Unit

PSYC 149 Cognitive Neuroscience

The study of the neural systems that underlie human perception, memory and language; and of the pathological syndromes that result from damage to these systems.

Taught by: Epstein or Mackey

One-term course offered either term

Prerequisite: PSYC 001 or COGS 001

Activity: Lecture

1 Course Unit

PSYC 151 Language and Thought

This course describes current theorizing on how the human mind achieves high-level cognitive processes such as using language, thinking, and reasoning. The course discusses issues such as whether the language ability is unique to humans, whether there is a critical period to the acquisition of a language, the nature of conceptual knowledge, how people perform deductive reasoning and induction, and how linguistic and conceptual knowledge interact.

Taught by: Trueswell

One-term course offered either term

Prerequisites: PSYC 001, COGS 001, LING 105, or PSYC 207

Activity: Lecture

1 Course Unit

PSYC 160 Personality and Individual Differences

This course provides an introduction to the psychology of personality and individual differences. Many psychology courses focus on the mind or brain; in contrast to those approaches of studying people in general, the focus in this course is on the question "How are people different from each other?" It will highlight research that take a multidimensional approach to individual differences and attempts to integrate across the biological, cognitive-experimental, and social-cultural influences on personality.

One-term course offered either term

Prerequisite: PSYC 001

Activity: Lecture

1 Course Unit

PSYC 162 Abnormal Psychology

The concepts of normality, abnormality, and psychopathology; symptom syndromes; theory and research in psychopathology and psychotherapy.

Taught by: Ruscio

One-term course offered either term

Prerequisite: PSYC 001

Activity: Lecture

1 Course Unit

PSYC 170 Social Psychology

An overview of theories and research across the range of social behavior from intra-individual to the group level including the effects of culture, social environment, and groups on social interaction.

For BA Students: Society Sector

One-term course offered either term

Prerequisite: PSYC 001

Activity: Lecture

1 Course Unit

PSYC 181 Intro to Developmental Psychology

The goal of this course is to introduce both Psychology majors and non-majors to the field of Developmental Psychology. Developmental Psychology is a diverse field that studies the changes that occur with age and experience and how we can explain these changes. The field encompasses changes in physical growth, perceptual systems, cognitive systems, social interactions and much more. We will study the development of perception, cognition, language, academic achievement, emotion regulation, personality, moral reasoning, and attachment. We will review theories of development and ask how these theories explain experimental findings. While the focus is on human development, when relevant, research with animals will be used as a basis for comparison.

Taught by: Brannon

One-term course offered either term

Prerequisite: PSYC 001

Activity: Lecture

1 Course Unit

PSYC 207 Introduction to Cognitive Science

Cognitive Science is founded on the realization that many problems in the analysis of human and artificial intelligence require an interdisciplinary approach. The course is intended to introduce undergraduates from many areas to the problems and characteristic concepts of Cognitive Science, drawing on formal and empirical approaches from the parent disciplines of computer science, linguistics, neuroscience, philosophy and psychology. The topics covered include Perception, Action, Learning, Language, Knowledge Representation, and Inference, and the relations and interactions between such modules. The course shows how the different views from the parent disciplines interact, and identifies some common themes among the theories that have been proposed. The course pays particular attention to the distinctive role of computation in such theories, and provides an introduction to some of the main directions of current research in the field. It is a requirement for the BA in Cognitive Science, the BAS in Computer and Cognitive Science, and the minor in Cognitive Science, and it is recommended for students taking the dual degree in Computer and Cognitive Science.

Taught by: Brainard/Ungar

One-term course offered either term

Also Offered As: CIS 140

Prerequisites: An Introductory Course in Computer Science, Linguistics, Neuroscience, Philosophy, or PSYC 001

Activity: Lecture

1 Course Unit

PSYC 217 Visual Neuroscience

An introduction to the scientific study of vision, with an emphasis on the biological substrate and its relation to behavior. Topics will typically include physiological optics, transduction of light, visual thresholds, color vision, anatomy and physiology of the visual pathways, and the cognitive neuroscience of vision.

Taught by: Stocker

Course usually offered in spring term

Prerequisite: PSYC 109

Activity: Lecture

1 Course Unit

PSYC 225 Drugs, Brain, and Mind

The course will begin with a review of basic concepts in pharmacology: routes of drug administration, drug metabolism, the dose response curve, tolerance, and sensitization. Following a brief overview of cellular foundations of neuropharmacology (cell biology, synaptic and receptor function), the course will focus on various classes of drugs used to treat neuropsychiatric disorders including, among others, depression, schizophrenia, and anxiety. We will additionally consider mechanisms mediating the mind-altering, addictive and neurotoxic effects of abused drugs.

Taught by: Kane

Course usually offered in spring term

Prerequisite: PSYC 109 or BIBB 109

Activity: Lecture

1 Course Unit

PSYC 231 Evolution of Behavior: Animal Behavior

The evolution of social behavior in animals, with special emphasis on group formation, cooperation among kin, mating systems, territoriality and communication.

One-term course offered either term

Prerequisite: PSYC 001 or BIOL 102 or COGS 001

Activity: Lecture

1 Course Unit

PSYC 235 Psychology of Language

This course describes the nature of human language, how it is used to speak and comprehend, and how it is learned. The course raises and discusses issues such as whether language ability is innate and unique to humans, whether there is a critical period for the acquisition of a language, and how linguistic and conceptual knowledge interact.

Taught by: Dahan

One-term course offered either term

Prerequisite: PSYC 151 or LING 001

Activity: Lecture

1 Course Unit

PSYC 239 Neuroendocrinology

This course is designed to examine the various roles played by the nervous and endocrine systems in controlling both physiological processes and behavior. First, the course will build a foundation in the concepts of neural and endocrine system function. Then we will discuss how these mechanisms form the biological underpinnings of various behaviors and their relevant physiological correlates.

Taught by: Flanagan-Cato

One-term course offered either term

Prerequisite: PSYC 109

Activity: Lecture

1 Course Unit

PSYC 247 Neuroscience and Society

Cognitive, social, and affective neuroscience have made tremendous progress in the last two decades. As this progress continues, neuroscience is becoming increasingly relevant to all of the real-world endeavors that require understanding, predicting and changing human behavior. In this course we will examine the ways in which neuroscience is being applied in law, criminal justice, national defense, education, economics, business, and other sectors of society. For each application area we will briefly review those aspects of neuroscience that are most relevant, and then study the application in more detail.

Taught by: Gerstein

One-term course offered either term

Prerequisite: PSYC 109 or PSYC 149

Activity: Lecture

1 Course Unit

PSYC 253 Judgment and Decisions

Thinking, judgment, and personal and societal decision making, with emphasis on fallacies and biases.

One-term course offered either term

Also Offered As: PPE 153

Prerequisite: One semester of statistics or microeconomics

Activity: Lecture

1 Course Unit

PSYC 265 Behavioral Economics and Psychology

This course will introduce you to the study of choice, and will examine in detail what we know about how people make choices, and how we can influence these choices. It will utilize insights from psychology and economics, and will apply these insights to domains including consumer choice, risky decision making, and prosocial decision making.

Taught by: Bhatia

One-term course offered either term

Also Offered As: PPE 313

Prerequisites: Microeconomics and PSYC 001

Activity: Lecture

1 Course Unit

PSYC 266 Introduction to Positive Psychology

An introduction to the study of positive emotions, positive character traits, and positive institutions. The positive emotions consist of emotions about the past (e.g., serenity, satisfaction, pride), about the future (e.g., hope, optimism, faith), and emotions about the present (pleasure and gratification). The distinction among the pleasant life, the good life, and the meaningful life is drawn. The positive traits include wisdom, courage, humanity, justice, temperance, and spirituality, and the classification of these virtues is explored. The positive institutions are exemplified by extended families, free press, humane leadership, and representative government.

Course usually offered in spring term

Prerequisite: PSYC 001

Activity: Lecture

1 Course Unit

PSYC 272 Evolutionary Psychology

This course introduces the field of evolutionary psychology, which is an approach to the study of human behavior. We will consider the theoretical underpinnings of the field, including evolutionary theory, development, kinship, and adaptations for social life, and will sample some of the recent empirical contributions to this growing area.

Taught by: Kurzban

One-term course offered either term

Prerequisite: PSYC 001

Activity: Lecture

1 Course Unit

PSYC 275 Introduction to Political Psychology

This course will explore psychological approaches to understanding political beliefs, attitudes, and actions at the levels of both individual citizens and national leaders. It will also explore the possibility that psychological science itself is not immune to the political debates swirling around it. Specific topics will include: the workings of belief systems (and their power to shape what we "see"), cognitive biases (and their power to cause miscalculations), sacred values and their role in stabilizing belief systems and social interaction, personality and ideology (the linkages between the personal and the political), and clashing conceptions of morality and distributive and corrective justice (striking variations among people in what they consider to be fair). We shall also explore some topics that have sparked controversy in the psychological research literature and that tend to polarize opinion along political lines, including work on intelligence and unconscious bias.

Taught by: Tetlock

One-term course offered either term

Also Offered As: PPE 275

Prerequisite: PSYC 001 or COGS 001

Activity: Lecture

1 Course Unit

Notes: NOTE: Students who are more interested in business-related issues may want Wharton 276x which is a modified version of this course specifically for Wharton undergraduates.

PSYC 280 Developmental Psychology: Social and Emotional Development

This course will cover theory and research related to the development of attachment, emotional regulation, peer and intimate relationships, personality, moral reasoning, and emotional and behavioral disorders. The course will emphasize the degree to which family, peer, and community contexts influence development from infancy into adulthood. Efforts will be made to integrate biological and environmental accounts of development across the lifespan.

One-term course offered either term

Prerequisite: PSYC 001

Activity: Lecture

1 Course Unit

PSYC 281 Cognitive Development

What infants and young children come to know about the world, and how they learn it. Topics will include changes in children's thinking, perceptual development, language acquisition, and current theories of cognitive development.

Taught by: Swingley

One-term course offered either term

Prerequisite: PSYC 001 or COGS 001

Activity: Lecture

1 Course Unit

PSYC 311 Research Experience in Perception

In this research course, students will begin by first replicating earlier experiments to measure human visual memory capacity. After several class discussions to discuss ideas, each student will design and conduct their own experiment to further investigate visual and/or familiarity memory.

Taught by: Rust

One-term course offered either term

Prerequisites: One semester of statistics, and one of the following:

PSYC 111, 149, 151, 217, or permission of instructor.

Activity: Seminar

1 Course Unit

Notes: Dept permission required. Undergraduates only.

PSYC 351 Research Experience in Cognitive Psychology

Students will work in small groups to develop, empirically test, and report on a research question in the field of cognitive psychology. Through this process, students will learn how to conduct and report a psychological study, including the appropriate statistical tests. Class discussions will help students craft their projects, and in-class presentations will provide the opportunity to develop and refine presentation skills. Psychology majors only. Class size is limited to 16 students.

Taught by: Weisberg

One-term course offered either term

Prerequisites: One semester of statistics.

Activity: Seminar

1 Course Unit

Notes: Dept permission required. Psych majors only.

PSYC 362 Research Experience in Abnormal Psychology

PSYC 362-301 is a two-semester course starting in the Fall. Class size limited to 8 students.

Taught by: Dr. Melissa Hunt

Prerequisites: PSYC 162 and one semester of statistics. Psych majors only. Instructor permission required.

Activity: Seminar

1 Course Unit

Notes: PSYC 362-301 is a two-semester course starting in the Fall.

PSYC 370 Research Experience in Social Psychology

In this course students will work in small groups to develop, empirically test, and report on a research question within one of the domains of social psychology. Depending on the nature of the project, students will employ survey, experimental, or observational research methodology, and learn how to conduct and report the appropriate statistical tests with Excel and/or SPSS (typically, correlations, t-tests, ANOVA and ANCOVA, multiple regression, , factor analysis, and measures of reliability). Class discussions will help students craft their projects, and in-class presentations will provide the opportunity to develop and refine presentation skills. Psychology majors only. Class size is limited to 12 students.

Taught by: Royzman

Prerequisites: PSYC 170 AND one semester of statistics.

Activity: Seminar

1 Course Unit

Notes: Dept permission required. Psychology majors only.

PSYC 380 Research Exp Develop Psy

Activity: Seminar

1 Course Unit

PSYC 399 Individual Empirical Research

Individual research involving data collection. Students do independent empirical work under the supervision of a faculty member, leading to a written paper. Normally taken in the junior or senior year.

One-term course offered either term

Activity: Independent Study

1 Course Unit

Notes: Dept permission required

PSYC 400 Senior Honors Seminar in Psychology

Open to senior honors candidates in psychology. A two-semester sequence supporting the preparation of an honors thesis in psychology. Students will present their work in progress and develop skills in written and oral communication of scientific ideas.

Taught by: Thompson-Schill

Prerequisite: acceptance into the Honors Program in Psychology

Activity: Seminar

0.5 Course Units

Notes: Dept permission required

PSYC 407 Behavioral Genetics

This course will cover basic principles of human and animal behavior genetics, including the genetics of normal variation as well as extreme phenotypes represented by behavioral, psychiatric and neurologic disorders. The course will focus on methods necessary to critically evaluate research findings on normal and abnormal human behavior. Animal models will also be reviewed.

Taught by: Price

One-term course offered either term

Prerequisite: Basic statistics or permission of instructor

Activity: Seminar

1 Course Unit

PSYC 421 Neurobiology of Learning and Memory

This advanced course focuses on the current state of our knowledge about neurobiological basis of learning and memory. Students will explore the molecular and cellular basis of learning invertebrates and vertebrates from a behavioral and neural perspective.

Taught by: Gerstein

One-term course offered either term

Also Offered As: NGG 575

Activity: Seminar

1 Course Unit

PSYC 429 Big Data, Memory, and the Human Brain

Advances in brain recording methods over the last decade have generated vastly more brain data than had been collected by neuroscientists during the previous century. To understand the human brain, scientists must now use computational methods that exploit the power of these huge data sets. This course will introduce you to the use of big data analytics in the study of human memory and its neural basis. Through hands-on programming projects, we will analyze multi-terabyte data sets both to replicate existing phenomena and to make new discoveries. Although the course has no formal neuroscience or psychology prerequisites it does require CIS121 and Python experience. Because of the heavy computing resources required to perform the assignments enrollment is limited to 15 students and there is a required course application. <http://psychology.sas.upenn.edu/undergraduate/forms>

Taught by: Kahana

Prerequisite: CIS121 & Python experience

Activity: Seminar

1 Course Unit

Notes: Instructor permission required. Application form can be found here: <http://psychology.sas.upenn.edu/undergraduate/forms>

PSYC 431 Seminar in Animal Cognition

The aim of this course will be to provide advanced undergraduates with a detailed review of a number of research areas in behavioral ecology.

One-term course offered either term

Prerequisite: PSYC 231/Biol 231/ BIBB 231

Activity: Seminar

1 Course Unit

PSYC 435 Psycholinguistics

Taught by: Dahan

Prerequisites: PSYC 151, or PSYC 235, or LING 001, or permission of instructor.

Activity: Seminar

1 Course Unit

PSYC 439 Neuroendocrinology Seminar

This course is designed to examine the various roles played by the nervous and endocrine systems in controlling both physiological processes and behavior. First, the course will build a foundation in the concepts of neural and endocrine system function. Then, we will discuss how these mechanisms form the biological underpinnings of various behaviors and their relevant physiological correlates. We will focus on sexual and parental behaviors, stress, metabolism, neuroendocrine-immune interactions, and mental health.

Taught by: Flangan-Cato

One-term course offered either term

Prerequisite: PSYC 109

Activity: Seminar

1 Course Unit

PSYC 440 Sleep and Sleep Disorder

Activity: Lecture

1 Course Unit

PSYC 447 Seminar in Neuroscience

Neurology

Taught by: Gottfried

One-term course offered either term

Prerequisite: PSYC 109

Activity: Seminar

1 Course Unit

Notes: Undergraduates only.

PSYC 449 Seminar in Cognitive Neuroscience

Topics vary each semester. PSYC 449 (Gerstein) Neuroscience for Policymakers: This seminar will provide an overview of the neuroscience behind some of the most relevant issues in public health policy today. We will examine the primary scientific literature as well as delve into lay articles about the science and policy surrounding each issue. /PSYC 449 (Epstein) Consciousness: Consciousness is our subjective experience of the world, including both perceptions and felt internal states. In this seminar, we will explore the the burgeoning scientific literature on the neural basis of consciousness. We will focus in particular on three topics: What are the neural systems underlying visual awareness? What are the mechanisms that control the progression of conscious contents to create our stream of thought? What is the relationship between consciousness and behavior? /PSYC 449 (Jenkins) The Social Brain: This seminar examines the cognitive and neural mechanisms that enable humans to predict and understand people's behavior. We will be propelled throughout the course by fundamental questions about the human social brain. For example, why are humans so social? Does the human brain have specialized processes for social thought? Consideration of these questions will involve advanced treatment of a range of topics.

Prerequisite: PSYC 149

Activity: Seminar

1 Course Unit

Notes: PSYC 449-601 is an LPS course. PSYC 449-301,-302 and -303 are Psych Dept. courses.

PSYC 453 Seminar in Decision Making: Judgment and Decisions

This seminar will be a series of engaging discussions on a variety of topics that are important to the field of behavioral decision theory. We'll cover issues such as constructed preferences, loss aversion, nudging, emotions, well-being, other-oriented decisions, intuitive predictions, unethical choices, and more. Students will be asked to present papers and generate ideas for potential research projects each week. Grades will be based on class contributions and a paper that is either a literature review or a careful and detailed proposal for a research project.

Taught by: Mellers

One-term course offered either term

Prerequisite: PSYC 253 or PSYC 265

Activity: Seminar

1 Course Unit

Notes: Undergraduates only.

PSYC 460 Body Image: Etiology, Psychopathology and Treatment

Course not offered every year

Activity: Seminar

1 Course Unit

PSYC 462 Seminar in Abnormal Psychology

Topics vary each semester.

Prerequisite: PSYC 162

Activity: Seminar

1 Course Unit

Notes: Undergraduates only. 462-601 is an LPS course.

PSYC 470 Seminar in Social Psychology

Topics vary each semester.

One-term course offered either term

Prerequisite: PSYC 170

Activity: Seminar

1 Course Unit

Notes: Undergraduates only.

PSYC 472 Behavioral Biology of Women

A course that explores female behavior focusing on evolutionary, physiological, and biosocial aspects of women's lives from puberty, through reproductive processes such as pregnancy, birth, lactation to menopause and old age. Examples are drawn from traditional and modern societies and data from nonhuman primates are also considered.

Taught by: Apicella

One-term course offered either term

Prerequisites: PSYC 272 or permission of instructor.

Activity: Seminar

1 Course Unit

PSYC 473 Neuroeconomics

This course will review recent research that combines psychological, economic and neuroscientific approaches to study human and animal decision-making. A particular focus will be on how evidence about the neural processes associated with choices might be used to constrain economic and psychological theories of decision-making. Topics covered will include decisions involving risk and uncertainty, reinforcement learning, strategic interactions and games, and social preferences.

Taught by: Kable

One-term course offered either term

Also Offered As: NGG 706

Prerequisites: PSYC 149, 253, or 265

Activity: Seminar

1 Course Unit

PSYC 474 PSYC 474-301: Being Human; PSYC 474-601: Cultural Psychology

Taught by: Platt (PSYC 474-301); Abiola (PSYC 474-601)

Prerequisite: PSYC 001

Activity: Seminar

1 Course Unit

Notes: Undergraduates only. PSYC 474-601 is an LPS course.

PSYC 477 Seminar in Political Psychology: Terrorism, Radicalization, Martyrdom and Revolution

Seminar will focus on rare events that change history: terrorism; revolution, and martyrdom (not to be confused with suicide bombing). Applying theory and research from social psychology, evolutionary psychology and behavioral economics we will try to understand these phenomena from the inside out: from individual psychology of terrorists, revolutionaries and martyrs to mass psychology of large publics moved by these individuals.

Taught by: Moskalenko

One-term course offered either term

Prerequisite: PSYC 170

Activity: Seminar

1 Course Unit

Notes: Undergraduates only.

PSYC 478 CAPSTONE: SOCIAL PSYCHOLOGY

Though almost half a century old, Milgram's 1961-1962 studies of "destructive obedience" continue to puzzle, fascinate, and alarm. In this seminar, we will take an in-depth look at these famous studies (along with the more recent replications) and explore their various psychological, historical, and philosophical ramifications. This course has a number of intellectual goals that go beyond simply rarifying one's understanding of a particular content area (important and generative as it may be). One such a goal is to enable you to think critically (though not disparagingly) about other people's research and theoretical claims that ensue from it, all with the hope that you can then apply the self-same critical acumen to your own future work. Second, this course will offer a hospitable environment for developing (and exchanging) creative ideas of your own. Your work on your individual reaction papers and on the term paper in particular will be a key element in achieving this goal.

Taught by: Royzman

Also Offered As: PPE 477

Prerequisite: PSYC 170

Activity: Seminar

1 Course Unit

PSYC 480 Seminar in Developmental Psychology

PSYC 480-301 (Brannon): The field of educational neuroscience is an emerging field with the goal of joining knowledge gained from the disciplines of neuroscience, cognitive science, developmental psychology, and education. This interdisciplinary course will focus on how scientific exploration of the mind and brain can inform educational practices. PSYC 480-302 (Connolly): This advanced discussion-based seminar will focus on approaches to success in domains of modern life such as social living and academia. The first portion of this seminar will be a psychology book club where we read various books written by psychology researchers. This will contribute to an ongoing discussion about scientific communication, and the presentation of psychological research to various audiences. From there, students will focus on a specific area of interest, and write a literature review based on contemporary empirical research critiquing their given topic. Students must understand the workload for this seminar requires intensive reading culminating in a large written assignment.

Taught by: Weisberg, Brannon, or Connolly

Prerequisite: PSYC 001

Activity: Seminar

1 Course Unit

Notes: Undergraduates only.

PSYC 482 Inside the Criminal Mind

This seminar explores the development of antisocial behavior including psychopathy, aggression, and violence. At its core, this course examines what increases the risk that children will develop behavior problems and go onto more chronic and extreme forms of violence and psychopathic personality that results in harm to others. We will examine psychiatric diagnoses associated with these antisocial behaviors in both childhood and adulthood and how they link to other relevant forms of psychopathology (e.g., substance use, ADHD). We will explore research elucidating the neural correlates of these behaviors, potential genetic mechanisms underlying these behaviors, and the environments that increase risk for these behaviors. Thus, there will be a focus on neurobiology and genetics approaches to psychiatric outcomes, as well as a social science approach to understanding these harmful behaviors, all while considering development across time. We will also consider ethical and moral implications of this research.

Taught by: Waller

Prerequisites: PSYC 162 and PSYC 181

Activity: Seminar

1 Course Unit

Notes: Undergraduates only.

PSYC 492 Social Cognition

Activity: Seminar

1 Course Unit

PSYC 511 Visual Tasks, Models, Processing, Receptors & Stimuli

Activity: Lecture

1 Course Unit

PSYC 521 Judgment & Decisions

Activity: Seminar

1 Course Unit

PSYC 525 Controversies in Psychology and Neuroscience

In this seminar, we will discuss several recent controversies in psychology and neuroscience, for example: "p-hacking," replicability, methodological terrorists, neural activity in dead salmon and failures to control the false positive rate in neuroimaging, "voodoo correlations" and double dipping, whether Tic-Tacs can improve self-control and whether reading "old" makes you walk slower. Our goal is not just to engender ennui and/or schadenfreude, but also to ask what we can learn from these discussions about how to do science in the most rigorous, reproducible manner possible.

Activity: Seminar

1 Course Unit

PSYC 539 Theoretical and Computational Neuroscience

This course will develop theoretical and computational approaches to structural and functional organization in the brain. The course will cover: (i) the basic biophysics of neural responses, (ii) neural coding and decoding with an emphasis on sensory systems, (iii) approaches to the study of networks of neurons, (iv) models of adaptation, learning and memory, (v) models of decision making, and (vi) ideas that address why the brain is organized the way that it is. The course will be appropriate for advanced undergraduates and beginning graduate students. A knowledge of multi-variable calculus, linear algebra and differential equations is required (except by permission of the instructor). Prior exposure to neuroscience and/or Matlab programming will be helpful.

Taught by: Balasubramanian

Course not offered every year

Also Offered As: NGG 594

Activity: Lecture

1 Course Unit

PSYC 547 Foundations of Social, Cognitive, and Affective Neuroscience

Activity: Lecture

1 Course Unit

PSYC 549 Neuroscience and Society

Activity: Lecture

1 Course Unit

PSYC 557 Neuroscience, Ethics & Law

How does the neuroscience of human decision-making and emotion impact our understanding of ethics and law? What can neuroscience tell us about why people find actions moral or immoral, worthy of praise or punishment? What, if anything, can it tell us normatively about morality, agency and responsibility? And what other insights might neuroscience offer regarding other morally and legally relevant phenomena such as stereotyping and bias, the causes of antisocial behavior and the detection of deception?

Activity: Seminar

1 Course Unit

PSYC 579 Exp Methods Perception

Activity: Lecture

1 Course Unit

PSYC 600 Proseminar in General Psychology

Choice of half or full course units each sem. covering a range of subjects and approaches in academic psychology.

One-term course offered either term

Activity: Seminar

1 Course Unit

Notes: Dept permission required

PSYC 609 Systems and Integrative Neuroscience

Course usually offered in fall term

Also Offered As: NGG 573

Activity: Lecture

1 Course Unit

Notes: Fulfills the Brain requirement

PSYC 611 Statistics for Psychologists

Course usually offered in fall term

Activity: Lecture

1 Course Unit

PSYC 612 Introduction to Nonparametric Methods and Log-linear Models

Course usually offered in spring term

Activity: Lecture

1 Course Unit

PSYC 671 Violence: A Clinical Neuroscience Approach

Developed for both Psychology and Criminology graduate students, this interdisciplinary course outlines a clinical neuroscience approach to understanding violence in which the tools of neuroscience- neuroanatomy, neurophysiology, neurocognition, neuroendocrinology, neuropharmacology, molecular and behavioral genetics- are used to help inform the etiology and treatment of violence. Clinical components include psychopathy, proactive and reactive aggression, homicide domestic violence, conduct disorder, oppositional defiant disorder, antisocial personality disorder, crime, and delinquency as well as their comorbid conditions (schizophrenia, drug abuse, hyperactivity). The interaction between social, psychological, and neurobiological processes in predisposing to violence will be highlighted, together with neurodevelopmental perspectives on violence focusing on prospective longitudinal and brain imaging research. Key implications for the criminal justice system, neuroethics, forensics psychology, and intervention will also be outlined.

Taught by: Raine

Course usually offered in fall term

Activity: Lecture

1 Course Unit

Notes: Graduate students only.

PSYC 698 Laboratory Rotation.

Lab rotation for psychology grad students.

One-term course offered either term

Activity: Lecture

3 Course Units

Notes: Dept permission required. Open only to psychology dept graduate students.

PSYC 699 Individual Research for First-Year Graduate Students

Two terms. student must enter first term.

Activity: Independent Study

3 Course Units

PSYC 703 Special Topics in Psychology

One-term course offered either term

Activity: Seminar

1 Course Unit

PSYC 704 Research Methods and Statistical Procedures for Social and Clinical Sciences

This course has three primary objectives: 1) developing criteria and strategies for strong inference of causal relationships in social and clinical psychology research; 2) examining the array of research designs employed in the social/clinical sciences together with the threats to internal and external validity associated with each; 3) learning and applying statistical analytical methods appropriate for questions in the social/clinical sciences. The course will employ a seminar format and a project-oriented approach to learning. Students will be encouraged to utilize examples from their own research programs in applying the design and analysis concepts covered in the course.

One-term course offered either term

Activity: Seminar

1 Course Unit

PSYC 705 Neuroethics

Neuroscience is increasingly affecting all aspects of human life, from the relatively familiar medical applications in neurology and psychiatry, to new applications in education, business, law, and the military.

Today's neuroscience graduate students will be among the scientists, citizens, and policymakers who will lead society through the maze of decisions regarding the appropriate uses of neuroscience. This course provides a survey of the key ethical, legal, and social issues at the intersection of neuroscience and society. It will include a combination of traditional classroom lectures, discussion and debates, as well as an online component coordinated with a course at Wisconsin's Neuroscience and Public Policy graduate program.

Taught by: Farah

One-term course offered either term

Activity: Seminar

1 Course Unit

Notes: Dept permission required.

PSYC 709 Special Topics in Clinical Psychology

In this seminar we will survey substantive, methodological and statistical issues that arise in the planning, conduct, and interpretation of empirical inquiries about the effects of psychotherapies. Challenges presented in efforts to disseminate evidence-based clinical practices will also be addressed.

One-term course offered either term

Activity: Seminar

1 Course Unit

Notes: Graduate students only.

PSYC 711 Basic Problems in Developmental II

One-term course offered either term

Activity: Seminar

1 Course Unit

PSYC 712 Regression & Anova II

One-term course offered either term

Activity: Seminar

1 Course Unit

PSYC 745 Special Topics in Cognitive Neuroscience

One-term course offered either term

Activity: Seminar

1 Course Unit

PSYC 810 Psychodiagnostic Testing

Course usually offered in fall term

Activity: Seminar

1 Course Unit

PSYC 811 Psychodiagnostic Interviewing

Course usually offered in fall term

Activity: Seminar

1 Course Unit

PSYC 815 Introductory Practicum

Course usually offered in spring term

Activity: Seminar

1 Course Unit

PSYC 820 Advanced Practicum

Intensive studies of single individuals including interviews, tests, and experiments; also clinical experience at appropriate community agencies.

One-term course offered either term

Activity: Seminar

1 Course Unit

PSYC 999 Individual Study and Research

One-term course offered either term

Activity: Independent Study

0.5 Course Units