PSYCHOLOGY (PSYC)

PSYC 0001 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.
Fall or Spring
1 Course Unit

PSYC 0400 The Pursuit of Happiness
What is happiness? Can it be successfully pursued? If so, what are the best ways of doing so? This interactive course will consider various ways of answering these questions by exploring theoretical, scientific, and practical perspectives on flourishing, thriving, and wellness. We will discuss approaches to happiness from the humanities and the sciences and then try them out to see how they might help us increase our own well-being and that of the communities in which we live.
Fall
1 Course Unit

PSYC 0405 Grit Lab: Fostering Passion and Perseverance in Ourselves and Others (SNF Paideia Program Course)
At the heart of this course are cutting-edge scientific discoveries about passion and perseverance for long-term goals. As in any other undergraduate course, you will learn things you didn’t know before. But unlike most courses, Grit Lab requires you to apply what you’ve learned in your daily life, to reflect, and then to teach what you’ve learned to younger students. The ultimate aim of Grit Lab is to empower you to achieve your personal, long-term goals--so that you can help other people achieve the goals that are meaningful to them. LEARN -> EXPERIMENT -> REFLECT -> TEACH. The first half of this course is about passion. During this eight-week period, you’ll identify a project that piques your interest and resonates with your values. This can be a new project or, just as likely, a sport, hobby, musical instrument, or academic field you’re already pursuing. The second half of this course is about perseverance. During this eight-week period, your aim is to develop resilience, a challenge-seeking orientation, and the habits of practice that improve skill in any domain. By the end of Grit Lab, you will understand and apply, both for your benefit and the benefit of younger students, key findings in the emerging science on grit.
Fall
Also Offered As: OIDD 0050, OIDD 2000
1 Course Unit

PSYC 0986 Study abroad College elective
Non-major elective in the College study abroad
Fall or Spring
1 Course Unit

PSYC 0996 Transfer College elective
Non-major elective in the College transfer
Fall or Spring
1 Course Unit

PSYC 1210 Introduction to Brain and Behavior
Introduction to the structure and function of the vertebrate nervous system. We begin with the cellular basis of neuronal activities, then discuss the physiological bases of motor control, sensory systems, motivated behaviors, and higher mental processes. This course is intended for students interested in the neurobiology of behavior, ranging from animal behaviors to clinical disorders.
Fall or Spring
Also Offered As: BIOL 1110, NRSC 1110
1 Course Unit

PSYC 1212 Physiology of Motivated Behavior
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.
Fall or Spring
Also Offered As: NRSC 2227
Prerequisite: PSYC 0001
1 Course Unit

PSYC 1230 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.
Fall or Spring
Also Offered As: NRSC 2249
Prerequisite: PSYC 0001 OR COGS 1001
1 Course Unit

PSYC 1310 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.
Fall or Spring
Also Offered As: LING 0750
Prerequisite: PSYC 0001 OR COGS 1001
1 Course Unit
**PSYC 1333 Introduction to Cognitive Science**
How does mind work? This course surveys a wide range of answers to this question from disciplines ranging from philosophy to neuroscience. The course devotes special attention to the use of simple computational and mathematical models. Topics include perception, learning, memory, decision making, emotion and consciousness. 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.
Fall
Also Offered As: CIS 1400, COGS 1001, LING 1005, PHIL 1840
1 Course Unit

**PSYC 1340 Perception**
How the individual acquires and is guided by knowledge about objects and events in their environment.
Fall
Also Offered As: VLST 2110
Prerequisite: PSYC 0001 OR COGS 1001
1 Course Unit

**PSYC 1440 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.
Fall or Spring
Prerequisite: PSYC 0001
1 Course Unit

**PSYC 1450 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.
Fall or Spring
Prerequisite: PSYC 0001
1 Course Unit

**PSYC 1462 Abnormal Psychology**
The concepts of normality, abnormality, and psychopathology; symptom syndromes, theory and research in psychopathology and psychotherapy.
Fall or Spring
Prerequisite: PSYC 0001
1 Course Unit

**PSYC 1530 Memory**
This course presents an integrative treatment of the cognitive and neural processes involved in learning and memory, primarily in humans. We will survey the major findings and theories on how the brain gives rise to different kinds of memory, considering evidence from behavioral experiments, neuroscientific experiments, and computational models.
Also Offered As: NRSC 1159
1 Course Unit

**PSYC 1777 Introduction to Developmental Psychology**
The goal of this course is to introduce both Psychology majors and non-majors 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 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.
Fall or Spring
Prerequisite: PSYC 0001
1 Course Unit

**PSYC 2220 Evolution of Behavior: Animal Behavior**
The evolution of behavior in animals will be explored using basic genetic and evolutionary principles. Lectures will highlight behavioral principles using a wide range of animal species, both vertebrate and invertebrate. Examples of behavior include the complex economic decisions related to foraging, migratory birds using geomagnetic fields to find breeding grounds, and the decision individuals make to live in groups. Group living has led to the evolution of social behavior and much of the course will focus on group formation, cooperation among kin, mating systems, territoriality and communication.
Fall
Also Offered As: BIOL 2140, NRSC 2140
Prerequisite: BIOL 1102 OR BIOL 1121 OR PSYC 0001
1 Course Unit

**PSYC 2240 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.
Spring
Also Offered As: NRSC 2217, VLST 2170
Prerequisite: NRSC 1110
1 Course Unit

**PSYC 2250 Drugs, Brain and Mind**
The course will begin with a review of basic concepts in pharmacology including: routes of drug administration, drug metabolism, the dose response curve, tolerance and sensitization. Following a brief overview of cellular foundations of neuropharmacology (neuronal biology, synaptic and receptor function), the course will focus on several neurotransmitter systems and the molecular and behavioral mechanisms mediating the mind-altering, addictive and neuropsychiatric disorders, including depression, schizophrenia and anxiety with an emphasis on their underlying neurobiological causes, as well as the pharmacological approaches for treatment.
Fall
Also Offered As: NRSC 2270
Prerequisite: NRSC 1110
1 Course Unit
PSYC 2260 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. We will focus on sexual and parental behaviors, stress, metabolism, neuroendocrine-immune interactions, and mental health.
Fall or Spring
Also Offered As: NRSC 2260
Prerequisite: NRSC 1110
1 Course Unit

PSYC 2288 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.
Fall or Spring
Prerequisite: NRSC 1110 OR PSYC 1230
1 Course Unit

PSYC 2310 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.
Fall or Spring
Prerequisite: NRSC 1110 OR PSYC 1230
1 Course Unit

PSYC 2314 Data Science for Studying Language and the Mind
Data Science for Studying Language and the Mind is an entry-level course designed to teach basic principles of data science to students with little or no background in statistics or computer science. Students will learn to identify patterns in data using visualizations and descriptive statistics; make predictions from data using machine learning and optimization; and quantify the certainty of their predictions using statistical models. This course aims to help students build a foundation of critical thinking and computational skills that will allow them to work with data in all fields related to the study of the mind (e.g. linguistics, psychology, philosophy, cognitive science).
Fall
Also Offered As: LING 0700
1 Course Unit

PSYC 2355 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.
Fall or Spring
Also Offered As: PPE 2355
Prerequisite: PSYC 0001 OR COGS 1001
1 Course Unit

PSYC 2377 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.
Not Offered Every Year
Prerequisite: PSYC 0001 OR COGS 1001
1 Course Unit

PSYC 2400 Introduction to Positive Psychology (SNF Paideia Program Course)
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.
Spring
Prerequisite: PSYC 0001
1 Course Unit

PSYC 2477 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.
Not Offered Every Year
Prerequisite: PSYC 0001
1 Course Unit
PSYC 2555 Neuroeconomics
This course will introduce students to neuroeconomics, a field of research that combines economic, psychological, and neuroscientific approaches to study decision-making. The course will focus on our current understanding of how our brains give rise to decisions, and how this knowledge might be used to constrain or advance economic and psychological theories of decision-making. Topics covered will include how individuals make decisions under conditions of uncertainty, how groups of individuals decide to cooperate or compete, and how decisions are shaped by social context, memories, and past experience.
Also Offered As: NRSC 2273
1 Course Unit

PSYC 2737 Judgment and Decisions
Thinking, judgment, and personal and societal decision making, with emphasis on fallacies and biases.
Fall or Spring
1 Course Unit

PSYC 2750 Behavioral Economics and Psychology
Our understanding of markets, governments, and societies rests on our understanding of choice behavior, and the psychological forces that govern it. 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 risky decision making, intertemporal decision making, and social decision making.
Fall
Also Offered As: PPE 3003
1 Course Unit

PSYC 2760 How We Change: Social-Psychological and Communication Dynamics (SNF Paideia Program Course)
Have you wondered why people undergo religious conversion, change their political affiliation, suddenly endorse conspiracy theories, alter their taste in music, or seek hypnosis to quit smoking? What is common to these processes of change, and how does resistance to change play out across these seemingly different contexts? In "Why We Change," we will ask unique questions such as how religious change might highlight methods of transforming public health communications or how the study of attitude change might yield new theories about the impact of life experiences on personality. Broadly speaking, the class will provide an opportunity for students to learn theories of belief formation, attitudes and persuasion, normative influence, and behavioral change.
For example, we will work to understand how specific beliefs, such as group stereotypes, or specific attitudes, such as trust and values, change in response to variations in the environment and communication with other people. We will cover culturally based and professional approaches to change, from fear appeals to motivational interviewing, to hypnosis. Students will read empirical studies and conduct observational projects about potential sources of social, cultural, or psychological change and resistance to change in Philadelphia.
Also Offered As: COMM 2760, NURS 2760
1 Course Unit

PSYC 2900 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.
Fall or Spring
Prerequisite: PSYC 0001
1 Course Unit

PSYC 3100 Being Human: The Biology of Human Behavior, Cognition, and Culture
This course will examine the biological basis of human behavior and culture as an emergent product of the brain and its interactions with the physical and social environment. As we explore this topic, we will emphasize human brain function at the level of neural systems and the neural networks they supply, how these systems may have evolved, how they change depending on experience, and what dysfunction of these circuits as occurs in neuropsychiatric and neurodevelopment disorders reveals about human thought and behavior. We will focus on key features of human nature, including language, mathematics, creativity and innovation, empathy, strategic thinking, cooperation, deception, economic behavior, and technology, amongst others.
Prerequisite: PSYC 0001
1 Course Unit

PSYC 3220 Neural Systems and Behavior
This course will investigate neural processing at the systems level. Principles of how brains encode information will be explored in both sensory (e.g. visual, auditory, olfactory, etc.) and motor systems. Neural encoding strategies will be discussed in relation to the specific behavioral needs of the animal. Examples will be drawn from a variety of different model systems.
Spring
Also Offered As: BIOL 4110, NRSC 4110
Prerequisite: BIOL 2110
1 Course Unit

PSYC 3230 Neuroscience for Policymakers: Cognitive Neuroscience Seminar
Topics vary each semester.
Prerequisite: PSYC 1230
1 Course Unit

PSYC 3231 Consciousness Seminar in Cognitive Neuroscience
Consciousness is our subjective experience of the world, including both perceptions and felt internal states. In this seminar, we will explore 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?
1 Course Unit

PSYC 3232 The Social Brain Seminar
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.
1 Course Unit
PSYC 3233 Seminar in Cognitive Neuroscience: Brain Development
This discussion-based seminar will focus on the neural bases of cognitive development. Each week the class will discuss a selection of papers that consider the roles of genes and environment on topics including the development of perceptual abilities, language, and cognition. The course will cover several aspects of pre- and postnatal brain and behavioral development with particular emphasis on animal models. This course is intended for students interested in neurobiology, cognitive psychology, evolutionary psychology and development.
Fall
Also Offered As: NRSC 4233
Prerequisite: PSYC 1230
1 Course Unit

PSYC 3260 Neuroendocrinology Seminar
This course is an upper-level seminar, designed to examine the various roles played by the nervous and endocrine systems in controlling both physiological processes and behavior. We will focus on sexual and parental behaviors, stress, metabolism, neuroendocrine-immune interactions, and mental health. The format will be a mixture of lectures and journal club discussions based on recent primary literature in the field of neuroendocrinology. Students will also write several short papers based on the clinical neuroendocrinology.
Fall or Spring
Also Offered As: NRSC 4460
Prerequisite: NRSC 1110
1 Course Unit

PSYC 3280 Neurological Insights into Cognition and Behavior Seminar
Our modern understanding of the brain began with very humble foundations. Long before transgenic mice, MRI scans, and neuronal recordings, most knowledge about brain function was based on clinical observations of human patients with neurological lesions. This advanced seminar will focus on the cognitive neuroscience of perception, emotion, language, and behavior – through the unique perspective of real-life patients – to illustrate fundamental concepts of brain function. Tuesday classes will explore different cognitive neuroscience topics through student presentations and discussion. Thursday classes will involve observing medical history taking and examination of a patient with cognitive deficits pertinent to the Tuesday topic, with opportunity for students to interact with the patient. Pre-requisites: Instructor permission required and PSYC 109 OR PSYC 149 OR PSYC 159
Spring
Prerequisite: NRSC 1110
1 Course Unit

PSYC 3281 Computational Neuroscience Lab
This course will focus on computational neuroscience from the combined perspective of data collection, data analysis, and computational modeling. These issues will be explored through lectures as well as Matlab-based tutorials and exercises. The course requires no prior knowledge of computer programming and a limited math background, but familiarity with some basic statistical concepts will be assumed. The course is an ideal preparation for students interested in participating in a more independent research experience in one of the labs on campus.
Spring
Also Offered As: NRSC 3334
Prerequisite: NRSC 1110
1 Course Unit

PSYC 3300 Seminar in Sleep and Memory
Why do we sleep? This question has puzzled scientists for centuries, but one reason emerging from research in the area is that sleep is critical for forming, retaining, and transforming our memories. This seminar explores human and animal research in psychology and neuroscience that has shed light on how sleep carries out these functions. Topics will include the different stages of sleep and their roles in memory consolidation, its neural systems involved in representing memory at different timescales, and the role of dreams in processing memories.
Spring
Also Offered As: NRSC 4429
Prerequisite: CIS 1210
1 Course Unit

PSYC 3301 Neurobiology of Learning and Memory
This course focuses on the current state of our knowledge about the neurobiological basis of learning and memory. A combination of lectures and student seminars will explore the molecular and cellular basis of learning in invertebrates and vertebrates from a behavioral and neural perspective.
Fall
Also Offered As: BIOL 4142, NRSC 4442
Prerequisite: BIOL 2110
1 Course Unit

PSYC 3310 Psycholinguistics Seminar
This course examines how people use language. We will focus on Herb H. Clark's book "Using Language" (1996). In this book, Clark proposes that language use is a form of joint action, and extensively develop what this claim entails and how it accounts for people's linguistic behavior. The course will consist of a detailed examination of Clark's thesis.
Also Offered As: LING 3750
Prerequisite: PSYC 1310 OR PSYC 2310 OR LING 0001
1 Course Unit

PSYC 3340 Positive Psychology Seminar: Positive Education
This intensive, discussion-based seminar will equip you with useful insight and critical analysis about Positive Psychology by emphasizing scientific literacy. The workload for this seminar requires intensive reading. To excel in this seminar, students must be willing to enthusiastically read, dissect, and critique ideas within Positive Psychology. This requires students to articulate various ideas in verbal and written form.
Fall
Prerequisite: PSYC 0001
1 Course Unit

PSYC 3440 Friendship and Attraction Seminar
This seminar primarily focuses on heterosexual friendship between men and women, and the methodological issues of investigating such relationships. The scope for sexuality and romance in heterosexual opposite-sex friendship will be explored, as well as the possibility that men and women perceive opposite-sex friendship differently from each other. The ramifications of sex, romance, and incongruent perspectives in these relationships will be discussed, as will intimacy, competition, homosexual friendship, and same-sex friendship.
Fall or Spring
Prerequisite: PSYC 1440
1 Course Unit
PSYC 3441 Psychology and Religion Seminar
The purpose of the seminar is to introduce the relationship between psychology and religion in a balanced fashion. I do not assume that either of these two powerful forces in the world has the last word on the other. Not do I assume that they can hide behind their typical assumptions without offering good reasons for them. So the seminar offers the opportunities for a disciplined personal engagement with the material. Almost everyone brings personal background and emotion as well as intellectual curiosity to religion and its relationship to human nature; this is the relationship that we will take seriously, pondering the emotional and immediately experiential as well as the cognitive and distanced aspects of the topics we study.
Fall or Spring
1 Course Unit

PSYC 3442 Moral Psychology Seminar
This seminar will cover a range of topics within contemporary moral psychology, including: the nature of morality, the extent to which moral beliefs are based on reasoning as opposed to more intuitive or affective processes, the extent to which moral values can be traded off, the role of justice and blame in moral thinking, moral selfidentity, the causes of immoral behavior, and the cultural, political, and personal significance of people's moral beliefs. Students will be expected to read and actively discuss selected papers, and will be asked to present readings at various points. There will be mid-term and final paper assignments.
Fall or Spring
1 Course Unit

PSYC 3443 Psychology and Law Seminar
During the past several years, this seminar has emphasized criminal law, procedure, and social justice issues. The emphasis in each year's course varies somewhat with what is going on "in the real world" outside of the classroom.
Fall or Spring
1 Course Unit

PSYC 3444 Evolutionary Perspectives in Social Psychology
This discussion-based seminar uses evolutionary (Darwinian) perspectives to examine selected topics central to social psychology. Topics will include: Fundamental theories of evolutionary psychology; the self; prosocial behavior and altruism; aggression and violence; love, attraction, and mating; human sex differences in social behavior; religion and morality; and group behavior.
Not Offered Every Year
1 Course Unit

PSYC 3461 Survey of Mood Disorders Seminar
Mood disorders are common, sometimes debilitating, mental health conditions with considerable societal costs. These disorders include depression, bipolar disorder, and several variants of these disorders. In industrialized nations, depression alone ranks among the leading causes of disability. Bipolar disorder, while less common, is associated with even more marked impairments. In this course, we will examine mood disorders in depth, covering historical, cross-cultural, diagnostic, developmental, neuroscientific, etiological, and therapeutic issues. Throughout the course, I hope to encourage students to appreciate what we know about problems of mood, how we have acquired this knowledge, and how much we still do not understand.
Prerequisite: PSYC 1462
1 Course Unit

PSYC 3462 Gender and Psychopathology Seminar
This course will explore contemporary theory and research on the role of gender in vulnerability to and expression of psychopathology. In the beginning of the course, we will explore and critique definitions of sex and gender and methodological approaches to the study of gender differences. This will include considering strong challenges to our conceptions of identity categories such as sex and gender. For instance, we will examine the evolution and controversies surrounding the diagnosis of Gender Dysphoria. Next, we will explore literature on gender differences in emotional expression, coping, and several forms of psychopathology, including mood disorders, eating disorders, disorders related to anxiety and trauma exposure, substance-related disorders and aggressive disorders. Finally, we will consider the role of gender in help-seeking behavior.
1 Course Unit

PSYC 3463 Seminar in Abnormal Psychology: Developmental Psychopathology
Developmental psychopathology has been defined as “the study of the origins and course of individual patterns of behavioral maladaptation, whatever the age of onset, whatever the causes, whatever the transformations in behavioral manifestation, and however complex the course of the developmental pattern may be.” (Sroufe & Rutter, 1984, p. 18). We will read and discuss seminal papers in the field of developmental psychopathology, case studies, memoirs, and sociological writings with the goal that students will acquire a deep understanding of the historical and theoretical origins of the field, key concepts, popular methodological approaches, and well-replicated findings.
Fall, even numbered years only
Prerequisite: PSYC 1462
1 Course Unit

PSYC 3464 Seminar in Clinical Psychology: Theories of Psychotherapy
This seminar provides an introduction to several major theoretical approaches to psychotherapy, such as psychodynamic/psychoanalytic, behavioral and cognitive-behavioral, humanistic, and interpersonal/group therapy models. Students will learn how these theoretical frameworks differentially influence assessment, case conceptualization, treatment planning, style of the therapeutic relationship, intervention techniques, and methods of evaluating therapy process and outcomes. Using case vignettes, film demonstrations, classroom role playing, and other experiential exercises, students will learn how these models are applied in real world settings and begin to develop an awareness of their own therapeutic philosophy. Critical analysis of the models will be advanced through ethical considerations and the application of multicultural and feminist perspectives.
Fall
Prerequisite: PSYC 1462
1 Course Unit

PSYC 3465 Seminar in Clinical Psychology: Social Psychology
This seminar provides an introduction to several major theoretical approaches to social psychology, including topics such as attitudes, social influence, social cognition, social identity, and social behavior. Students will learn how these theoretical frameworks can be used to understand and predict human behavior in social contexts.
Fall
1 Course Unit
PSYC 3730 Three Perspectives on Judgment and Decision Making: Seminar
This course is designed to help you become a better decision maker. By the end of the semester, you should have the skills to approach decision making from a broader perspective with new tools and a new awareness of many common errors and biases. You will learn about normative decisions (how people should make choices if they want to use principles of rationality, logic and probability), descriptive decisions (how people really do make decisions) and prescriptive decisions (how people can make better decisions given normative principles and what we know about human behavior). We'll discuss the theoretical foundations of the field, some of the key empirical insights. We'll discuss what it means to have good judgment and how experts and novices differ. We look at decision making in such as public policy, medicine, the law, business, and intelligence analysis. Decision making is something we do every day, many times a day. It is so natural that some people don't even realize they are doing it. Many of the insights from this field have real-world implications.
Fall or Spring
Prerequisite: PSYC 2737 OR PPE 3003
1 Course Unit

PSYC 3766 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 on to 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.
Prerequisite: PSYC 1462 AND PSYC 1777
1 Course Unit

PSYC 3770 Educational Neuroscience Seminar
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.
Prerequisite: PSYC 0001
1 Course Unit

PSYC 3771 Psychology of Modern Life: Success and Achievement
This intensive, discussion-based seminar focuses on the utility of Psychology in modern life. We will take a top-down approach to a range of contemporary ideas that could be described as practical: useful and applicable. Broadly, we will investigate the concepts of success and achievement to this end. This includes topics such as intelligence, grit, self-control, growth mindset, expertise, flow, and creativity. This will equip you with useful insight and critical analysis about various iterations of success, and how the field of Psychology conceptualizes how to achieve success. This seminar emphasizes scientific literacy.
1 Course Unit

PSYC 3780 PPE Capstone: Obedience
Though almost half a century old, Milgram's 1961-1962 studies of “destructive obedience” continue to puzzle, fascinate, and alarm. The main reason for their continued grip on the field's attention (other than the boldness of the idea and elegance of execution) may be simply that they leave us with a portrait of human character that is radically different from the one that we personally wish to endorse or that the wider culture teaches us to accept. 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, political and philosophical ramifications.
Not Offered Every Year
Also Offered As: PPE 4802, PSYC 4780
1 Course Unit

PSYC 3790 Neuroeconomics Seminar
This seminar will review recent research that combines psychological, economic, and neuroscientific approaches to study human and animal decision-making. The course will focus on our current state of knowledge regarding the neuroscience of decision-making, and how evidence concerning the neural processes associated with choices might be used to constrain or advance economic and psychological theories of decision-making. Topics covered will include decisions involving risk and uncertainty, decisions that involve learning from experience, decisions in strategic interactions and games, and social preferences. Prerequisite: Psychology 149, 153, or 165, or permission of the instructor.
Fall or Spring
Also Offered As: NRSC 4473
Prerequisite: PSYC 1230 OR PSYC 2737 OR PPE 3003
1 Course Unit

PSYC 3900 Behavioral Biology of Women Seminar
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.
Fall or Spring
Prerequisite: PSYC 2900 OR BIOL 1102 OR ANTH 1040 OR ANTH 1430
1 Course Unit

PSYC 3990 Sleep and Sleep Disorders
This class will provide an introduction to sleep and sleep disorders, focusing on current research in the field. Students will learn about the neurobiology of sleep/wake regulation, the relationship between sleep and memory and how sleep is related to physical and mental health. Sleep disorders, including sleep apnea, insomnia, and narcolepsy will be covered in terms of pathophysiology, assessment and treatment.
Summer Term
Prerequisite: PSYC 0001
1 Course Unit
PSYC 4290 Big Data, Memory and the Human Brain
This course fulfills the research experience requirement in the psychology major. 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. Through hands-on Python-based programming projects, we will analyze very large data sets both to replicate existing phenomena and to make new discoveries. Programming experience in python is required for this course.
Fall, even numbered years only
Also Offered As: COGS 4290
1 Course Unit

PSYC 4310 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.
Fall or Spring
1 Course Unit

PSYC 4340 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.
Fall or Spring
Also Offered As: VLST 2120
1 Course Unit

PSYC 4440 Sexuality and Attraction Research Experience Course
The overarching goal of this course is to offer a practicum (hands-on experience) in designing, conducting, and reporting a piece of psychological research. This objective will be met principally through participation in a group research project, class discussions related to the project and various exercises focusing on individual components of the research process. There are additional goals as well. One is to enable you to think critically (though not disparagingly) about other people’s research, all with the hope of eventually applying the the self-same critical acumen to some future work of your own. This objective will be met primarily through class lectures and discussions of the assigned readings. I also hope that our interactions throughout the course will be conducive to developing (and exchanging) creative ideas of your own. Lastly, the course aims to offer an informal introduction to research design and research ethics. This objective will be met primarily through class discussions, group project, exercises, and some additional readings.
1 Course Unit

PSYC 4462 Research Experience in Abnormal Psychology
This is a two-semester course starting in the Fall. Class size limited to 8-10 students.
1 Course Unit

PSYC 4463 Research Experience Course in Clinical Psychological Data Analysis
This is a semester-long research experience class on the analysis of data from clinical trials and epidemiological studies to better understand topics relevant to clinical psychology and mental health. The class will primarily focus on practical application of data analytic skills to understand psychological phenomena, including analysis of existing clinical datasets using statistical analysis tools such as R.
Not Offered Every Year
1 Course Unit

PSYC 4900 The Science of Behavior Change
The objective of this 14-week discussion-based seminar for advanced undergraduates is to expose students to cutting-edge research from psychology and economics on the most effective strategies for changing behavior sustainably and for the better (e.g., promoting healthier eating and exercise, encouraging better study habits, and increasing savings rates). The weekly readings cover classic and current research in this area. The target audience for this course is advanced undergraduate students interested in behavioral science research and particularly those hoping to learn about using social science to change behavior for good. Although there are no pre-requisites for this class, it is well-suited to students who have taken (and enjoyed) courses like OIDD 2900: Decision Processes, PPE 2030/PSYC 2650: Behavioral Economics and Psychology, and MKTG 2660: Marketing for Social Impact and are interested in taking a deeper dive into the academic research related to promoting behavior change for good. Instructor permission is required to enroll in this course. Please complete the application if interested in registering for this seminar: http://bit.ly/bcfg-class-2020. The application deadline is July 31, 2020. Prerequisite: Permission of instructor required.
Fall or Spring
Also Offered As: OIDD 4900
1 Course Unit

PSYC 4997 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. Prerequisite: Acceptance into the Honors Program in Psychology.
0.5 Course Units

PSYC 4998 Mentored Research
Mentored 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.
Fall or Spring
1-2 Course Units
PSYC 4999 Honors Thesis Empirical Research
The Honors Program has been developed to recognize excellence in psychology among Penn undergraduates and to enhance skills related to psychological research. The 4998 credit signifies an Honors Independent Study, completed as part of the Honors Program. The honors program involves: (a) completing a year-long empirical research project in your senior year under the supervision of a faculty member (for a letter grade). This earns 2 cu’s. (b) completing a second term of statistics (for a letter grade) before graduation. (c) participating in the year-long Senior Honors seminar (for a letter grade). This seminar is designed especially for Psychology Honors majors, this receives a total of 1 cu. (d) participating in the Undergraduate Psychology Research Fair in the Spring semester, at which honors students present a poster and give a 15-minute talk about their research. (e) a total of 15 cu’s in psychology is required. Students will be selected to be part of the Honors Program in the Spring of their junior year (see application process online).

Fall or Spring
1-2 Course Units

PSYC 5110 Probabilistic Models of Perception
How does vision work? What computations should be performed on images to support visual tasks? What computations do biological and engineered vision systems actually use? This course will provide an in-depth treatment of several topics in vision with implications for both biological and human-engineered systems. We will develop an understanding of select visual abilities in humans and in other creatures from around the animal kingdom (praying mantises, cuttlefish, etc.) and we will show how computational solutions that emerge from the study of biological systems can improve performance in engineered systems like smartphone cameras. The course will provide an introduction to useful tools like signal detection theory, dimensionality reduction, and optimal estimation theory and show how these tools are applied to the covered topics. Some programming experience is desirable.
1 Course Unit

PSYC 5210 Judgment & Decisions
Thinking, judgment, and personal and societal decision making, with emphasis on fallacies and biases.
1 Course Unit

PSYC 5250 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.
1 Course Unit

PSYC 5390 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.
Spring
Also Offered As: BE 5300, NGG 5940, NRSC 5585, PHYS 5585
1 Course Unit

PSYC 5410 Sleep and Memory
Why do we sleep? This question has puzzled scientists for centuries, but one reason emerging from research in the area is that sleep is critical for forming, retaining, and transforming our memories over time. This seminar explores human and animal research in psychology and neuroscience that has shed light on how sleep carries out these functions. Topics will include the different stages of sleep and their roles in memory consolidation, the neural systems involved in representing memory at different timescales, and the role of dreams in processing memories.
1 Course Unit

PSYC 5470 Foundations of Social, Cognitive, and Affective Neuroscience
This course is designed to introduce students to the interdisciplinary field of social, cognitive and affective neuroscience. We begin with the basics of neurons, synapses and neurotransmission and the functional anatomy of the human brain. We then move on to neuroscience methods including cellular recordings, EEG/ERP lesion methods, structural and functional neuroimaging and brain stimulation. The remainder of the course covers the neural systems involved in emotion, social cognition, executive function, learning and memory, perception and development. We focus on how our understanding of these systems has emerged from the use of the methods studied earlier.
1 Course Unit
PSYC 5490 A Neuroscience Perspective of Artificial Intelligence
This seminar course asks what would be required to achieve Strong Artificial Intelligence, also referred to as Artificial General Intelligence (AGI), in light of what we know about the emergence of life and mind in the universe. Specifically, we will consider the question whether it is possible for machines to become self-aware by asking what Natural Intelligence is, and considering what it implies about whether and how AGI can be achieved. To grapple with this question, in Part I of the course we will examine what is known about the emergence of Natural Intelligence in the universe. This study includes the phenomena of: (1a) Abiogenesis, (1b) The Universal Role of Entropy and Information in Evolution, (1c) Signal Transduction, intracellular signaling, and Mechanism of Stimulus-Response Coupling in Unicellular Organisms; (2a) The Evolution of the Metazoa during the Cambrian Explosion, (2b) The Consequences of Motility and Predator - Prey Dynamics in the Metazoa for the Evolution of Complex Nervous Systems and Behaviors; (3a) The Implications of Invertebrate Navigation by Dead Reckoning for Understanding Insect Behavior, (3b) Insect Behavior in Relation to Robotics; (4a) Origin of the Vertebrates and the Evolution of the Vertebrate Nervous System, (4b) The Mammalian Neocortex; (5) Molecular Mechanisms of Synaptic Plasticity; (6) The Evolution of the Hominins and the Hominin Brain; (7) Higher-Order Thinking and Epistemology; (8a) Meta-awareness as the Foundation of Human Consciousness, (8b) The Fluidity of Mind Embodiment, (8c) Theories and Philosophy of Human Consciousness. (9a) Other Minds: The Atypical Nervous System of the Ctenophore and The Nervous System and Mind of the Octopus, (9b) Animal intelligence, (10a) The History and Trajectory of AI, (10b) Superintelligence, Human Cognitive Fluidity and the Existence of a Global Network of Human Superintelligence.
1 Course Unit

PSYC 5510 Eye Movements in Perception, Language and Cognition
In this course, we examine how the recording of eye movements can provide a moment-by-moment record of perceptual, cognitive and linguistic processes. Four areas of research will be discussed: (1) task-based scene perception, (2) language processing (in both reading and spoken language); (3) category learning, and (4) decision making. In all of these domains, eyetracking research has led to a greater understanding of how attention and information selection supports real-time cognitive processes. Students will have access to eyetracking systems, giving them hands-on experience in designing, running, and analyzing eyetracking experiments. By the end of the semester, students will have collected pilot eyetracking data. Projects will be done individually or within small research teams. Requirements: Weekly readings; class presentations and discussion; and a paper.
Fall
1 Course Unit

PSYC 5570 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?
1 Course Unit

PSYC 5620 Anxiety Disorders, OCD, and PTSD: Theory, Diagnosis, and Evidence
Schizophrenia is the same as “split personality”... or is it? People with mental illness are frequently violent... or are they? “Shock” therapy is barbaric...or is it? The “answers” to these questions as portrayed by the media often reinforce common myths and stereotypes about psychopathology, its treatments, and its treatment providers. These myths can have a tremendous impact on individuals and society. This course was designed to help students develop awareness of popular myths and stereotypes depicted in the media about psychopathology, treatment and providers; the ability to identify and understand the sources and impact of media representations of psychopathology; and knowledge about current empirical research on media depictions of psychopathology and their relationship to stigma. By the end of the course, students should be able to identify the many forms of media in which psychopathology is depicted; recognize common myths; critique the common and specific ways in which particular mental disorders are inaccurately or stereotypically portrayed in the media; evaluate the potential impact of psychopathology depictions on individuals and society; and describe current efforts to assess and reduce the stigmatization of mental health through the media.
1 Course Unit

PSYC 5730 Seminar in Neuroeconomics
This seminar will review recent research that combines economic, psychological, and neuroscientific approaches to study decision-making. The course will focus on our current state of knowledge regarding the neuroscience of decision-making, and how evidence concerning the neural processes associated with choices might be used to constrain or advance economic and psychological theories of decision-making. Topics covered will include decisions involving risk and uncertainty, decisions that involve learning from experience, decisions in strategic interactions and games, and social preferences.
Not Offered Every Year
1 Course Unit

PSYC 5790 Experimental Methods of Perception
The course will be lab based, and designed to introduce students to the major experimental
1 Course Unit

PSYC 6000 Proseminar in General Psychology
Choice of half or full course units each sem. covering a range of subjects and approaches in academic psychology.
Fall or Spring
0.5-1 Course Unit

PSYC 6090 Systems Neuroscience
This course provides an introduction to what is known about how neuronal circuits solve problems for the organism and to current research approaches to this question. Topics include: vision, audition, olfaction, motor systems, plasticity, and oscillations. In addition, the course aims to provide an overview of the structure of the central nervous system. A number of fundamental concepts are also discussed across topics, such as: lateral inhibition, integration, filtering, frames of reference, error signals, adaptation. The course format consists of lectures, discussions, readings of primary literature, supplemented by textbook chapters and review articles.
Spring
Also Offered As: NGG 5730
1 Course Unit
PSYC 6110 Applied Regression and Analysis of Variance
An applied graduate level course in multiple regression and analysis of variance for students who have completed an undergraduate course in basic statistical methods. Emphasis is on practical methods of data analysis and their interpretation. Covers model building, general linear hypothesis, residual analysis, leverage and influence, one-way anova, two-way anova, factorial anova. Primarily for doctoral students in the managerial, behavioral, social and health sciences. Permission of instructor required to enroll.
Fall
Also Offered As: BSTA 5500, STAT 5000
1 Course Unit

PSYC 6120 Introduction to Nonparametric Methods and Log-linear Models
An applied graduate level course for students who have completed an undergraduate course in basic statistical methods. Covers two unrelated topics: loglinear and logit models for discrete data and nonparametric methods for nonnormal data. Emphasis is on practical methods of data analysis and their interpretation. Primarily for doctoral students in the managerial, behavioral, social and health sciences. Permission of instructor required to enroll.
Spring
Also Offered As: STAT 5010
1 Course Unit

PSYC 6980 Laboratory Rotation
Lab rotation for psychology grad students.
Fall or Spring
0.5-3 Course Units

PSYC 6999 Individual Research for First-Year Graduate Students
Individual Research for First-Year Graduate Students
Two Term Class, Student must enter first term; credit given after both terms are complete
0.5-4 Course Units

PSYC 7030 Special Topics in Psychology
Special Topics in Psychology.
Fall or Spring
1 Course Unit

PSYC 7040 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.
Fall or Spring
1 Course Unit

PSYC 7050 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.
Fall or Spring
1 Course Unit

PSYC 7110 Regression & ANOVA
A graduate-level course on the theory and application of multiple regression and analysis of variance.
Fall or Spring
1 Course Unit

PSYC 7120 Regression & ANOVA II
An advanced graduate-level course on the theory and application of multiple regression and analysis of variance.
Fall or Spring
1 Course Unit

PSYC 7140 Brain Development & Society
In this seminar, we will explore a series of topics in developmental neuroscience, focusing on recent scientific progress and its social relevance. Two major topics will be covered: Autism and other forms of “neurodiversity”, including gender-nonconformity, and socioeconomic status. For both of these topics we will examine the state of the fast-developing science, the implications of the science for policy, and the relations between the developmental neuroscience and society more broadly (issues such as identity, stigma and politics).
Fall or Spring
1 Course Unit

PSYC 7450 Special Topics in Cognitive Neuroscience
Special Topics in Cognitive Neuroscience
Fall or Spring
1 Course Unit

PSYC 7470 Contemporary Research Issues in Social, Cognitive and Affective Neuroscience
This course is intended to take you from a textbook-level acquaintance with psychology and neuroscience to critical engagement with the primary literature, through lectures, discussion, and short written assignments. You will learn to extract, from the dense and detail-laden pages of a journal article, its contribution to the “big picture” of human neuroscience. You will also learn to recognize problematic research practices when they arise, and to analyze and communicate about the strengths and weaknesses of research articles.
Spring
Also Offered As: BIOE 7470
1 Course Unit
PSYC 8100 Psychodiagnostic Testing  
This course provides a basic introduction to the theories and tools of psychological assessment. Students learn how to administer and interpret a number of standard cognitive, neuropsychological and personality tests including the WAIS-III, WMS-III, WIAT-II, Wisconsin Card Sort, Minnesota Multiphasic Personality Inventory (MMPI) and the Millon Index of Personality Styles. Attention is given to serving as a consultant, differential diagnosis, case conceptualization, and integrating test results into formal but accessible reports.  
Fall  
1 Course Unit  

PSYC 8110 Psychodiagnostic Interviewing  
This course, usually taken simultaneously with Psychology 810, provides a basic introduction to psychodiagnostic interviewing and differential diagnosis. Students learn to take clinical histories and to administer a number of standardized diagnostic interviews, including the mental status exam, the SCID I and II for DSM-IV, the ADIS, and various clinician rating scales such as the Hamilton Rating Scale for Depression. Attention is also given to self-report symptom inventories such as the Beck Depression Inventory and the Symptom Checklist-90-Revised as well as to computerized diagnostic tools.  
Fall  
1 Course Unit  

PSYC 8150 Introductory Practicum  
Students typically complete 8-10 full assessment batteries on complex patients referred from a number of different sources in the community. This practicum offers intensive supervision, with live (in the room) supervision of every trainee's first case, and live peer-supervision of their second case. Throughout their time in the practicum they receive close supervision of every case, including checking the scoring of tests and measures, and close reading and editing of every report. Students do a final feedback session with every patient which the supervisor co-leads at the beginning of the year, and observes in the room throughout the rest of the year, thus ensuring direct observation of every trainee throughout the year.  
Spring  
1 Course Unit  

PSYC 8200 Advanced Practicum  
Intensive studies of single individuals including interviews, tests, and experiments; also clinical experience at appropriate community agencies.  
Fall or Spring  
1 Course Unit  

PSYC 9999 Individual Study and Research  
Individual Study and Research  
Fall or Spring  
0.5-4 Course Units