Psychological and Brain Sciences Courses (PSY)

This is a list of all psychological and brain sciences courses. For more information, see Psychological and Brain Sciences.

**PSY:1000 First-Year Seminar** 1 s.h.
Small discussion class taught by a faculty member; topics chosen by instructor; may include outside activities (e.g., films, lectures, performances, readings, visits to research facilities, field trips). Requirements: first- or second-semester standing.

**PSY:1001 Elementary Psychology** 3 s.h.
Psychology as a behavioral science. GE: Social Sciences.

**PSY:1010 Your Brain Unlocked: Learning About Learning** 1 s.h.
Research about the human mind and brain that students can use to foster academic success at the UI; presentation of research findings that indicate best practices for studying, learning, and succeeding at the UI (not a remedial study skills course); topics range from retrieving information stored in memory to maintaining psychological health under stress; course format consists of lecture, student response to reading assignments, and discussion; readings are primarily original documents (journal articles).

**PSY:2130 Advanced Psychology for Pre-Medical Track** 3 s.h.
Psychology as a behavioral science; elementary psychology in more depth, advanced topics. Prerequisites: PSY:1001. Requirements: non-psychology major.

**PSY:2301 Introduction to Clinical Psychology** 3 s.h.
Introduction to abnormal psychology; scientist-practitioner model, training, ethics, research methods in clinical psychology; current approaches to intellectual, personality, behavioral assessment; theories, research on treatment of psychological disorders. Prerequisites: PSY:1001. GE: Social Sciences.

**PSY:2401 Introduction to Developmental Science** 3 s.h.
Current research in developmental science; prenatal development, brain development, motor and physical development, perceptual development, language development, cognitive development, aspects of socio-emotional development; emphasis on modern theoretical approaches. Prerequisites: PSY:1001. GE: Social Sciences.

**PSY:2501 Introduction to Social Psychology** 3 s.h.
Research and theories on people's thoughts, feelings, and behaviors in social situations; attitudes, attributions, person perception, aggression, stereotypes and prejudice, attraction, relationships, social influence, group processes, altruism. Prerequisites: PSY:1001.

**PSY:2601 Introduction to Cognitive Psychology** 3 s.h.
Individual human cognition; perception, attention, memory, language, learning, problem solving, decision making, thought considered from viewpoint of information processing. Prerequisites: PSY:1001. GE: Social Sciences.

**PSY:2701 Introduction to Behavioral Neuroscience** 4 s.h.
Biological mechanisms of behavior; comparative study of behavior, behavioral organization, animal intelligence, social behavior, communication; behavioral neuroscience, how brain systems control sensation, movement, homeostasis, emotion, learning. Prerequisites: PSY:1001.

**PSY:2810 Research Methods in Psychology** 4 s.h.
Logic of experimental and nonexperimental methods, application of methods to analysis of behavioral phenomena; skills for critical evaluation of professional and public literature dealing with scientific study of behavior: philosophy of scientific psychology, principles of research design and control, psychological testing, applications in several research areas. Prerequisites: STAT:1020 or STAT:1020 or PSQF:4143 or SOC:2160 or STAT:1030 or PSQF:4143 or STAT:3510.

**PSY:2811 Research Methods and Data Analysis in Psychology I** 3 s.h.
Foundational knowledge in psychological research methods and corresponding statistical concepts; basic concepts of statistics, statistical inference, and research design as applied in psychological research; study of descriptive statistics, measurement, survey design, correlational analyses, and regression analysis; first in a sequence of two courses. Prerequisites: PSY:1001 or PSY:2701.

**PSY:2812 Research Methods and Data Analysis in Psychology II** 3 s.h.
Foundational knowledge in psychological research methods and corresponding statistical concepts; basic concepts of statistics, statistical inference, and research design as they are applied in psychological research; study of experimental control, experimental design, and hypothesis testing; second in a sequence of two courses. Prerequisites: PSY:2811 with a minimum grade of C-.

**PSY:2910 Industrial/Organizational Psychology** 3 s.h.
Applications of psychology to problems in world of work; emphasis on personnel selection, training, attitudes, motivation, measurement of job performance. Prerequisites: PSY:1001.

**PSY:2920 Fundamentals of Human Neuropsychology** 3 s.h.
Basic understanding of relationship between brain and behavior through examination of behavioral and cognitive consequences of brain damage from disease or trauma; foundations of neuropsychology, structure of the nervous system, functional specialization of the brain, cognitive functions, and assessments of brain disorders. Prerequisites: PSY:1001. Requirements: non-psychology major.

**PSY:2930 Abnormal Psychology: Health Professions** 3 s.h.
Introduction to psychological disorders; description of psychopathology; general issues in etiology and treatment; for non-psychology students in allied health professions. Prerequisites: PSY:1001. Requirements: non-psychology major.

**PSY:2975 Introduction to Cognitive Neuroscience** 3 s.h.
Analysis of brain systems and neuroanatomy that underlie cognitive tasks such as vision, hearing, emotion, attention, language, decision making, learning, and memory. Prerequisites: PSY:2701.
PSY:3010 Health Psychology 3 s.h.
Psychological contributions to understanding etiology, prevention, treatment of physical illness; basic and clinical research that addresses reciprocal effects of behavior and physical health. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and (PSY:2301 with a minimum grade of C- or PSY:2501 with a minimum grade of C- or PSY:2701 with a minimum grade of C-).

PSY:3015 Psychology of Interpersonal Relations 3 s.h.
Theories, empirical findings, speculation from social psychology and related disciplines regarding how people form, maintain, and alter close, interpersonal relationships. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and (PSY:2501 with a minimum grade of C- or PSY:2301 with a minimum grade of C-).

PSY:3020 Mind and Behavior 3 s.h.
Theories of what it is to act and know, of what intelligence might be in animals, humans, machines; perspectives from philosophy, psychology. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and (PSY:2301 with a minimum grade of C- or PSY:2501 with a minimum grade of C- or PSY:2401 with a minimum grade of C-).

PSY:3030 Social and Personality Development 3 s.h.
Emotional, social, and personality development from infancy to adolescence; major theories and empirical research; child temperament, parent-child relationship, and social context as contributors to individual differences. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and (PSY:2701 with a minimum grade of C- or PSY:2810 with a minimum grade of C-)

PSY:3040 Psychology of Learning 3 s.h.
Psychological science of acquired behavior; interests in experimental study of Pavlovian conditioning, operant conditioning, cognition in humans and nonhuman animals, relevance to behavioral adaptation. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and (PSY:2701 with a minimum grade of C- or PSY:2501 with a minimum grade of C- or PSY:2401 with a minimum grade of C-).

PSY:3060 Visual Perception and Cognition 3 s.h.
Psychological and neurophysiological examination of vision. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and (PSY:2601 with a minimum grade of C- or PSY:2701 with a minimum grade of C-).
PSY:3280 Introduction to Health Biopsychology 3 s.h.
Physiological basis of behavior and cognition; interaction between brain and body in normal and pathological states. Prerequisites: PSY:2701 with a minimum grade of C- and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-).

PSY:3320 Abnormal Psychology 3 s.h.
Etiology, phenomenology, and treatment of child and adult DSM-IV psychological disorders (e.g., mood disorders, psychotic disorders, anxiety disorders, personality disorders). Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2301 with a minimum grade of C-.

PSY:3330 Childhood Psychopathology 3 s.h.
Major forms of childhood psychopathology; current theoretical approaches and methodological issues in diagnosis, conceptualization, treatment of developmental psychopathology. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2301 with a minimum grade of C-.

PSY:3340 Behavior Modification 3 s.h.
Basic approaches to modification of clinically distressing behavior; learning theory principles underlying techniques, translation into procedures, experimental evaluation of effectiveness. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2301 with a minimum grade of C-.

PSY:3350 Psychotherapies 3 s.h.
Current theories and research on frequently used psychotherapeutic approaches; focus on methodology in psychotherapy research, specific types of therapy, and empirically supported therapies. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2301 with a minimum grade of C-.

PSY:3420 Cognitive Development of Children 3 s.h.
Developmental research, theory concerning children's concepts, thinking, problem solving, memory, communication. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2401 with a minimum grade of C-.

PSY:3451 Infant Development 3 s.h.
Physical, motor, perceptual, cognitive, and social development during first two years of life; focus on early mechanisms of change; locomotion, perceptual abilities, precursors of cognition, early language acquisition, social interaction. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2401 with a minimum grade of C-.

PSY:3460 Language and Communication Development 3 s.h.
Vocal and social development from prelinguistic communication through early language; precursors of language development; social cognitive aspects of language development; comparative perspectives of communication development. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2401 with a minimum grade of C-.

PSY:3530 Personality 3 s.h.
Classic theoretical models and contemporary empirical research in personality, including influence of heredity and environment, consistency and stability of behavior. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2301 with a minimum grade of C- or PSY:2501 with a minimum grade of C-.

PSY:3540 Attitude Change 3 s.h.
Current theoretical approaches; laboratory and field methods of research; basic processes of change considered within broader framework of psychology. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2501 with a minimum grade of C-.

PSY:3550 Psychology of Gender 3 s.h.
Origins of gender roles, gender socialization in childhood, gender differences across lifespan; research on gender differences in cognition, emotions, behavior, physical and mental disorders, communication. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2501 with a minimum grade of C-.

PSY:3570 Social Cognition 3 s.h.
Research and theory on cognitive structures and processes that underlie judgment, decision, belief, and behavior in social situations; attribution, heuristics, schemas, person perception, stereotypes, attitudes. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2501 with a minimum grade of C-.

PSY:3580 Judgment and Decision Making 3 s.h.
Processes and biases that shape judgments and decisions of various types (e.g., about other people, the future, competitions, products, medical treatments, health risks, crime suspects). Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2501 with a minimum grade of C-.

PSY:3590 Stereotyping and Prejudice 3 s.h.
Research and theory on prejudice, stereotyping, discrimination, and stigmatization; focus on nature, origins, and impact of prejudice and stereotypes. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2501 with a minimum grade of C-.

PSY:3595 Psychology of Negotiation 3 s.h.
Distributive and integrative bargaining; cognitive, motivational, and emotional processes that inhibit or facilitate effectiveness in negotiating; team and multiparty negotiations; agency and ethics; complex disputes; and cross-cultural issues. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2501 with a minimum grade of C-.

PSY:3620 Human Memory 3 s.h.
Contemporary psychological theory and research on short-term and long-term memory, acquisition processes, related topics in cognition. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2601 with a minimum grade of C-.
PSY:3670 Language Processes 3 s.h.
Psychological processes involved in using languages, including speech perception and production, the meaning of words, understanding and producing sentences, and basics of discourse and pragmatics; developmental and neural bases of language processes. Prerequisites: (PSY:2701 and PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2601 with a minimum grade of C-) or PSY:2601 with a minimum grade of C-) or (CS:1015 or LING:3001). Same as LING:3670.

PSY:3680 Introduction to Computational Cognitive Modeling 3 s.h.
Introduction to computational modeling as a methodology for studying cognition; role and use of computational models as a framework for thinking about cognition; emphasis on hands-on simulation exercises. Prerequisites: (PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and (CS:1020 with a minimum grade of C- or CS:1110 with a minimum grade of C-) and PSY:2601 with a minimum grade of C-) or (STAT:1020 and (CS:1020 with a minimum grade of C- or CS:1110 with a minimum grade of C-) and PSY:2601 with a minimum grade of C-).
PSY:6101 Cognitive Science of Language Proseminar I 3 s.h.
Survey of five major disciplines within language sciences: formal linguistic, communication disorders, psychological, neuroscience, and computational approaches. Requirements: graduate standing in communication sciences and disorders, linguistics, psychology, or neuroscience. Same as CSD:6101, LING:6101.

PSY:6102 Cognitive Science of Language Proseminar II 3 s.h.
Survey of five major disciplines within language sciences: formal linguistic, communication disorders, psychological, neuroscience, and computational approaches. Requirements: graduate standing in communication sciences and disorders, linguistics, psychology, or neuroscience. Same as CSD:6102, LING:6102.

PSY:6200 Behavioral Pharmacology 3 s.h.
Behavioral analysis of drug action; emphasis on physiological and biological mechanisms underlying behavioral processes in experimental animals, humans.

PSY:6230 Foundations of Learning, Memory, and Cognition 3 s.h.
Determinants of adaptive behavior in humans and animals; emphasis on behavioral analysis of learning, memory, and cognition; relevance of laboratory research to real life activities.

PSY:6250 Neurobiology of Drug Addiction and Stress 3 s.h.
Neurobiology of drug addiction and stress from molecular/cellular to systems level; discussion of classic and recent journal articles.

PSY:6265 Neuroscience Seminar 0-1 s.h.
Research presentations. Same as ACB:6265, BIOL:6265, MPB:6265, NSCI:6265.

PSY:6270 Fundamentals of Health Biopsychology 3 s.h.
Biological basis of behavior and cognition in relation to disordered regulation of body-brain systems in pathological states.

PSY:6280 Structural and Functional MRI Methods and Application 3 s.h.
Introduction to basic principles of magnetic resonance imaging and its application to psychology; imaging of brain structure; focus on functional MRI. Requirements: graduate-level introductory statistics.

PSY:6340 Psychological Therapies 3 s.h.
Historical development and current status of empirically based therapies for psychological disorders, including anxiety, depression, schizophrenia, childhood disorders; emphasis on critical evaluation of therapy techniques.

PSY:6350 Ethics and Professional Concerns arr.
Major ethical and legal issues relevant to clinical psychologists' varied roles; understanding of legal and ethical issues encountered by psychologists in varied settings, development of personal working model for resolving ethical and professional concerns.

PSY:6370 Principles of Neuropsychology 3 s.h.
Principles of human neuropsychology, including foundations (history, methods, approaches), major functional systems (vision, memory, language, spatial processing), executive functions (emotional processing and personality), and applications (experimental, clinical). Recommendations: prior course work in psychological assessment, psychopathology, and neuroanatomy.

PSY:6440 Developmental Cognitive Neuroscience 3 s.h.
Overview of current developmental cognitive neuroscience theory, research, and methods (PET, fMRI, optical imaging, EEG, ERPs); neural development, computational neuroscience, and methods.

PSY:6460 Translating Developmental Science to Applied Problems 3 s.h.
Relationship between basic and applied research in development; individual differences work and how applied work informs theory.

PSY:6480 Computational Approaches to Development 3 s.h.
Use of computational models to understand development; model development, specific approaches, model evaluation, and hands-on model work.

PSY:6510 Advanced Social-Personality Psychology 3 s.h.
Classic and contemporary theory, research, methodological issues in social-personality psychology.

PSY:6520 Attitudes and Persuasion 3 s.h.
Classic and current theories and findings on persuasion, the formation and measurement of attitudes.

PSY:6530 Advanced Social Cognition 3 s.h.
Research and theory on cognitive processes that underlie judgment, decision, belief, and behavior in social situations; attribution, heuristics, counterfactual thinking, schemas, person perception, stereotypes, attitudes.

PSY:6550 Advanced Social and Personality Development 3 s.h.
Theory and research on social and personality development; overview of development and individual differences in emotions, temperament, attachment, self, social cognition, conscience; influence of biological factors, social relationships, and broader ecology on adaptive and maladaptive developmental pathways.

PSY:6560 Stereotyping, Prejudice, and Discrimination 3 s.h.
Theory and research on origins and mechanisms of stereotyping, prejudice, and discrimination; implications for perceivers, targets, and interpersonal interactions.

PSY:6580 Moral Psychology 3 s.h.
Research and theory on cognitive and affective processes that underpin moral judgment and moral behavior; neuroscience approaches to moral judgment; political differences in moral judgment; development, evolution, and clinical variation in morality.

PSY:6590 Judgment and Decision Making 3 s.h.
Theory and research on how people gather, perceive, and use information when making judgments and decisions; includes risky and uncertain contexts; social and nonsocial contexts.

PSY:6600 Computational Modeling of Cognition 3 s.h.
Introduction to computational modeling as a methodology for studying cognition; computational models' role and use as a framework for thinking about cognition; emphasis on hands-on simulation exercises.

PSY:6620 Visual Perception 3 s.h.
Theoretical and empirical analyses of low- and high-level visual functions, including edge detection, surface representation, object identification.

PSY:6650 Attention 3 s.h.
Theory and research on attention, from viewpoints of cognitive psychology and cognitive neuroscience, including historical perspectives, recent approaches.
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<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PSY:6740</td>
<td>Drug Addiction</td>
<td>3 s.h.</td>
<td>Analysis of factors involved in drug addiction; social, clinical, and biological processes.</td>
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<tr>
<td>PSY:7020</td>
<td>Seminar: Cognitive Neuroscience</td>
<td>0-2 s.h.</td>
<td>Neurological and behavioral investigations of attention, perception, learning, memory, decision making, planning; contemporary models, theories.</td>
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<tr>
<td>PSY:7030</td>
<td>Seminar: Health Psychology</td>
<td>0-3 s.h.</td>
<td>Theoretical and methodological issues; focus on specific topics (i.e., chronic disease, psychoneuroimmunology).</td>
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<tr>
<td>PSY:7070</td>
<td>Seminar: Behavioral Biomedical Interface</td>
<td>1 s.h.</td>
<td>Ongoing seminar; discussion of research at behavioral-biomedical interface. Requirements: acceptance to Behavioral Biomedical Interface Training Program.</td>
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<tr>
<td>PSY:7110</td>
<td>Research Projects</td>
<td>arr.</td>
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<tr>
<td>PSY:7120</td>
<td>M.A. Thesis Research</td>
<td>arr.</td>
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<tr>
<td>PSY:7150</td>
<td>Current Topics in Psychology</td>
<td>3 s.h.</td>
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<tr>
<td>PSY:7170</td>
<td>Teaching Practicum</td>
<td>arr.</td>
<td>Supervised practice in teaching.</td>
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<tr>
<td>PSY:7210</td>
<td>Seminar: Advanced Topics in Behavioral and Cognitive Neuroscience</td>
<td>3 s.h.</td>
<td>Prerequisites: PSY:5210.</td>
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<tr>
<td>PSY:7270</td>
<td>Principles of Scholarly Integrity</td>
<td>1 s.h.</td>
<td>Training in responsible conduct of research; student/mentor responsibilities; authorship and reviewing; plagiarism/falsification/fabrication of data; intellectual property; conflict of interest; fiscal, institutional, societal; treatment of human and animal subjects; data handling. Requirements: enrollment in graduate psychology or biology program. Same as BIOL:7270.</td>
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<tr>
<td>PSY:7310</td>
<td>Seminar: Orientation to Clinical Research</td>
<td>0-1 s.h.</td>
<td>Issues in clinical research, including use of databases, advisor/advisee relationships, preparation of IRB proposals, paper presentation and publication, common early career problems, funding resources.</td>
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<tr>
<td>PSY:7350</td>
<td>Introductory Practicum</td>
<td>arr.</td>
<td>Orientation to Department of Psychology clinic, including instruction in interviewing, observation of clinic procedures, attendance at clinic rounds under supervision of clinical psychology faculty members.</td>
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<tr>
<td>PSY:7365</td>
<td>External Practicum</td>
<td>arr.</td>
<td>Supervised practice and clinical experience in field setting; psychological assessment techniques and/or application, evaluation of psychological therapies.</td>
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<tr>
<td>PSY:7370</td>
<td>Supervision and Consultation Practicum</td>
<td>arr.</td>
<td>Supervision and training of less advanced students; consultation to other programs and agencies.</td>
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<tr>
<td>PSY:7430</td>
<td>Seminar: Cognitive Development</td>
<td>0-3 s.h.</td>
<td>Theoretical, methodological issues focused on cognitive and perceptual development.</td>
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<tr>
<td>PSY:7510</td>
<td>Seminar: Social Psychology</td>
<td>1 s.h.</td>
<td>Professional issues, current topics relevant to social psychologists.</td>
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<tr>
<td>PSY:7604</td>
<td>Principles of Scholarly Integrity</td>
<td>0 s.h.</td>
<td>Training in responsible conduct of research and scholarly activities; student/mentor responsibilities; authorship; plagiarism/falsification/fabrication of data; intellectual property; conflict of interest; fiscal, institutional, societal; treatment of human and animal subjects; data handling. Requirements: postdoctoral standing in psychology or biology. Same as BIOL:7604.</td>
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<tr>
<td>PSY:7610</td>
<td>Seminar: Cognitive Psychology</td>
<td>2 s.h.</td>
<td>Professional issues and current topics relevant to psychologists studying human perception and performance.</td>
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<tr>
<td>PSY:7620</td>
<td>Seminar: Human Perception and Performance</td>
<td>1 s.h.</td>
<td>Professional issues and current topics relevant to psychologists studying human perception and performance.</td>
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