# 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
<th>GE</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY:1000</td>
<td>First-Year Seminar</td>
<td>1</td>
<td>PSY:1001</td>
<td></td>
<td>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.</td>
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<tr>
<td>PSY:1010</td>
<td>Your Brain Unlocked: Learning About Learning</td>
<td>1</td>
<td>PSY:1001</td>
<td></td>
<td>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).</td>
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<tr>
<td>PSY:2105</td>
<td>Winning Hearts and Minds: Understanding Social Influence</td>
<td>1</td>
<td>PSY:1001</td>
<td></td>
<td>What social psychologists have discovered about changing people's attitudes and behavior; social influence strategies including applications to fundraising, public service campaigns, religious cults, sales, and political campaigns.</td>
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<tr>
<td>PSY:2130</td>
<td>Advanced Psychology for Pre-Medical Track</td>
<td>3</td>
<td>PSY:1001</td>
<td></td>
<td>Psychology as a behavioral science; elementary psychology in more depth, advanced topics. Prerequisites: PSY:1001. Requirements: non-psychology major.</td>
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<tr>
<td>PSY:2301</td>
<td>Introduction to Clinical Psychology</td>
<td>3</td>
<td>PSY:1001</td>
<td></td>
<td>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.</td>
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<tr>
<td>PSY:2401</td>
<td>Introduction to Developmental Science</td>
<td>3</td>
<td>PSY:1001</td>
<td></td>
<td>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.</td>
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<tr>
<td>PSY:2501</td>
<td>Introduction to Social Psychology</td>
<td>3</td>
<td>PSY:1001</td>
<td></td>
<td>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.</td>
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<tr>
<td>PSY:2701</td>
<td>Introduction to Behavioral Neuroscience</td>
<td>4</td>
<td>PSY:1001</td>
<td></td>
<td>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.</td>
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<tr>
<td>PSY:2810</td>
<td>Research Methods in Psychology</td>
<td>4</td>
<td>PSY:1001</td>
<td></td>
<td>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.</td>
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<tr>
<td>PSY:2811</td>
<td>Research Methods and Data Analysis in Psychology I</td>
<td>3</td>
<td>PSY:1001</td>
<td></td>
<td>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. GE: Quantitative or Formal Reasoning.</td>
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<tr>
<td>PSY:2812</td>
<td>Research Methods and Data Analysis in Psychology II</td>
<td>3</td>
<td>PSY:1001</td>
<td></td>
<td>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-.</td>
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<tr>
<td>PSY:2910</td>
<td>Industrial/Organizational Psychology</td>
<td>3</td>
<td>PSY:1001</td>
<td></td>
<td>Applications of psychology to problems in world of work; emphasis on personnel selection, training, attitudes, motivation, measurement of job performance. Prerequisites: PSY:1001.</td>
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<tr>
<td>PSY:2920</td>
<td>The Damaged Brain</td>
<td>3</td>
<td>PSY:1001</td>
<td></td>
<td>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.</td>
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<tr>
<td>PSY:2930</td>
<td>Abnormal Psychology: Health Professions</td>
<td>3</td>
<td>PSY:1001</td>
<td></td>
<td>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.</td>
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<tr>
<td>PSY:2975</td>
<td>Introduction to Cognitive Neuroscience</td>
<td>3</td>
<td>PSY:1001</td>
<td></td>
<td>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.</td>
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</tbody>
</table>
PSY:3005 Scientific Communication in Psychology 3 s.h.
Training in modes of communication in psychological science; scientific writing; APA format for scientific papers; describing psychological research; creating research presentations tailored to different audiences. Prerequisites: PSY:2811 with a minimum grade of C- or PSY:2810 with a minimum grade of C.

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:2811 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:2811 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-). Requirements: junior or senior standing.

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:2811 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:2601 with a minimum grade of C-). Requirements: junior or senior standing.

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:2811 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: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:2811 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:2401 with a minimum grade of C-).

PSY:3050 Applied Psychology: Addressing Real-World Problems 3 s.h.
Bridging the basic applied research divide in psychology; contributions of cognitive, clinical, social, and developmental psychology to understand real-world problems (e.g., traffic safety, screen time). Prerequisites: PSY:2301 with a minimum grade of C- or PSY:2401 with a minimum grade of C- or PSY:2501 with a minimum grade of C- or PSY:2601 with a minimum grade of C-.

PSY:3060 Visual Perception and Cognition 3 s.h.
Psychological and neurophysiological examination of vision.

PSY:3065 The Aging Mind and Brain 3 s.h.
Current theories and research on biological, cognitive, and emotional changes that occur during aging; methodologies for studying cognitive and brain aging. Prerequisites: (PSY:2811 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:2601 with a minimum grade of C-).

PSY:3071 Cognition and the Brain 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:2811 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-).

Similarities and differences in human language and animal communication; contexts of communication, function of communication, cognitive bases of communication, and mechanisms of communication. Prerequisites: (PSY:2811 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and (PSY:2401 with a minimum grade of C- or PSY:2701 with a minimum grade of C-).

PSY:3090 Psychology of Workplace Behaviors 3 s.h.
Introduction to theory and research of workplace and work-related behaviors; focus on industrial and organizational psychology. Prerequisites: (PSY:2811 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:2601 with a minimum grade of C-).

PSY:3095 Psychology of Relationship Violence 3 s.h.
Introduction to psychological theory and research on violence in relationships; topics will include intimate partner violence, sexual assault and rape, sexual harassment, and stalking; includes a service learning component. Prerequisites: (PSY:2811 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:3220 Behavioral Neuroscience 3 s.h.
Basic concepts and techniques in neurosciences, their application to analysis of sensory processes, arousal mechanisms, motivation, learning. Prerequisites: PSY:2701 with a minimum grade of C- and (PSY:2811 with a minimum grade of C- or PSY:2810 with a minimum grade of C-).

PSY:3230 Psychopharmacology 3 s.h.
How drugs act to influence behavior; general principles of drug action on the nervous system; licit and illicit drugs, use/abuse, historical perspective on drug use. Prerequisites: (PSY:2811 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) or (HHP:1300 with a minimum grade of C- or HHP:3500 with a minimum grade of C-). Same as HHP:3230.

PSY:3240 Motivation, Addiction, and the Brain 3 s.h.
Analysis of motivated behaviors (e.g., behaviors to obtain specific goals, such as food) and the brain processes that guide such behavior; exploration of brain processes underlying addiction. Prerequisites: PSY:2701 with a minimum grade of C- and (PSY:2811 with a minimum grade of C- or PSY:2810 with a minimum grade of C-).
PSY:3250 Neuroscience of Learning and Memory 3 s.h.
Major topics in the neuroscience of learning and memory; focus on anatomical, cellular, molecular bases of various learning and memory processes. Prerequisites: (PSY:2701 with a minimum grade of C- or BIOL:2753 with a minimum grade of C-) and (PSY:2811 with a minimum grade of C- or PSY:2810 with a minimum grade of C-).

PSY:3265 Cognitive and Clinical Neuroscience of Executive Functions 3 s.h.
Major topics in cognitive and clinical neuroscience of executive functions; focus on attention, working memory, cognitive control, and executive dysfunction in psychiatric and neurological disorders. Prerequisites: (PSY:2811 with a minimum grade of C- or PSY:2810 with a minimum grade of C-) and PSY:2701 with a minimum grade of C-.

PSY:3270 Neurobiology of Stress 3 s.h.
Introduction to concept of stress and physiological systems involved; factors modulating stress vulnerability versus resilience; stress interactions with other systems with health relevance; emphasis on current research on brain mechanisms. Prerequisites: PSY:2701 with a minimum grade of C- and (PSY:2811 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: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:2811 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:2811 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:2811 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:2811 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:2811 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:2811 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; compulsions of language development; social cognitive aspects of language development; comparative perspectives of communication development. Prerequisites: (PSY:2811 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:2811 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: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:2811 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:3550 Psychological and Brain Sciences Courses (PSY) 3
Psychological and Brain Sciences Courses (PSY)
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:2811 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:2811 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:2811 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 CSD: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:2811 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-.

PSY:3994 Research Practicum in Psychology arr.
Small-group participation in faculty research projects; literature review, study planning, data collection, analysis, interpretation, write-up.

PSY:3995 Advanced Research Practicum 1-3 s.h.
Individual participation in faculty research projects; significant reading and writing. Requirements: two semesters of PSY:3994 or HONR:3994.

PSY:3996 External Practicum in Psychology 1-3 s.h.
Student participation in career-related professional activities in community and University of Iowa agencies.

PSY:3997 Teaching/Advising Practicum in Psychology 1-3 s.h.
Participation in faculty teaching as undergraduate teaching assistant or the Psychology Peer Advisor Program.

PSY:3998 Individual Readings and Projects 1-3 s.h.
Requirements: psychology major and undergraduate standing.

PSY:3999 Independent Research in Neuroscience 2-3 s.h.
Independent scientific research related to the field of neuroscience. Same as BIOL:3999.

PSY:4020 Laboratory in Psychology 4 s.h.
Laboratory study of an aspect of behavior; topics in a particular area (e.g., learning and memory, perception, social behavior, operant behavior, physiological processes). Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-).

PSY:4025 Laboratory in Cognitive Neuroscience 4 s.h.
Practical, hands-on experience analyzing data from three of the most common methods of cognitive neuroscience—scalp electroencephalography (brain waves), functional magnetic resonance imaging (brain imaging), and transcranial magnetic stimulation (brain stimulation). Prerequisites: PSY:2975 and PSY:2812. Requirements: neuroscience major.

PSY:4090 Psychology Seminar 3 s.h.
Readings from original sources, presentations, papers, student participation. Prerequisites: PSY:2701 and (PSY:2812 with a minimum grade of C- or PSY:2810 with a minimum grade of C-). Requirements: psychology B.S. major and senior standing, or completing honors in psychology.

PSY:4990 Honors Thesis Research 1-3 s.h.
Supervised original project; leads to written thesis, oral defense. Requirements: honors standing.

PSY:4995 Honors Research in Neuroscience arr.
Independent scientific research related to the field of neuroscience. Requirements: honors standing in neuroscience, UI g.p.a. of at least 3.33, and neuroscience g.p.a. of at least 3.33. Same as BIOL:4995.

PSY:5050 Quantitative Methods in Psychology 4 s.h.
Overview of statistical methods based on the general linear model, including ANOVA, ANCOVA, and multiple regression; how to conduct these analyses using SPSS. Requirements: first-year graduate standing in psychology.

PSY:5055 Mixed-Effects Modeling in Psychology 4 s.h.
Introduction to mixed-effects analysis of hierarchically structured and cross-classified psychological data using R. Prerequisites: PSY:5050.

PSY:5070 Programming for Psychologists 3 s.h.
Basics of programming; experiment design, stimulus delivery and response recording using Python; implementation of online testing using JavaScript; data analysis of behavioral data using Python; basic machine learning techniques and their applications to data analysis implemented using Python. Requirements: PSY:2812 or graduate standing.

PSY:5203 Fundamental Neurobiology 3 s.h.
Neurobiology from molecular/cellular to systems levels, including cell biology of the neuron; membrane electrophysiology; synaptic transmission and plasticity, functional neuroanatomy, peripheral and CNS sensory systems, peripheral and CNS motor systems, autonomic systems, emotion, memory, sleep, language, attention and cognition, neuronal development. Same as BIOL:5653, NSCI:5653.

PSY:5204 Fundamental Neurobiology Discussion 1 s.h.
Discussion of selected papers, including classics from neurobiology literature; coordinated with BIOL:5653 lecture material. Same as BIOL:5658, NSCI:5658.

PSY:5210 Fundamentals of Behavioral Neuroscience 3-4 s.h.
Concepts, methods, and findings in behavioral and cognitive neurosciences; emphasis on principles of neuroscience, sensation, motivation, emotion. Same as NSCI:5210.

PSY:5212 Foundations in Behavioral and Cognitive Neuroscience 4 s.h.
Concepts, methods, and findings in behavioral and cognitive neurosciences. Prerequisites: BIOL:3253 or PSY:5210 or NSCI:5210. Same as NSCI:5212.
PSY:3200 Descriptive Psychopathology 3 s.h.
Psychiatric syndromes, including description, etiology, experimental and clinical research; development, function of classification systems.

PSY:3300 Principles of Psychological Assessment 4 s.h.
Assessment theory and basic psychometric principles in test construction, evaluation, application; ethical, social, psychological, and psychometric issues and controversies in assessment.

PSY:3650 Seminar: Neuropsychology and Neuroscience arr.
Clinical neuropsychology and cognitive neuroscience: cutting-edge research from scientific journals, case presentations in clinical neuropsychology, and current research. Same as NEUR:5365, NSCI:5365.

PSY:4100 Proseminar in Developmental Science 3 s.h.
Introduction to developmental process and developmental science; topics organized around mechanisms of development, with cross-disciplinary focus.

PSY:5100 Proseminar in Cognition and Perception 3 s.h.
Broad overview of study of cognition, including cognitive psychology, computer science and artificial intelligence, linguistics, neuroscience, philosophy of mind.

PSY:5710 Introduction to Health and Behavioral Science 3 s.h.
Evolution of health psychology; survey of major physiological systems in which pathology is affected by behavioral processes; review of theoretical approaches, experimental paradigms from behavioral science as they may apply to assessment of health problems; prevention, intervention, psychological adaptation to physical disease.

PSY:6050 Clinical Behavioral Medicine 3 s.h.
Biopsychosocial framework applied to study, treatment of chronic and acute physical conditions; clinical concepts, procedures.

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:6210 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 to 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: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 coursework 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: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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSY:6550</td>
<td>Advanced Social and Personality Development</td>
<td>3 s.h.</td>
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<tr>
<td>PSY:6560</td>
<td>Stereotyping, Prejudice, and Discrimination</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PSY:6580</td>
<td>Moral Psychology</td>
<td>3 s.h.</td>
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<tr>
<td>PSY:6590</td>
<td>Judgment and Decision Making</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PSY:6620</td>
<td>Computational Modeling of Cognition</td>
<td>3 s.h.</td>
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<tr>
<td>PSY:6640</td>
<td>Visual Perception</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PSY:6650</td>
<td>Attention</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PSY:7020</td>
<td>Seminar: Cognitive Neuroscience</td>
<td>0-2 s.h.</td>
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<tr>
<td>PSY:7030</td>
<td>Seminar: Health Psychology</td>
<td>0-3 s.h.</td>
</tr>
<tr>
<td>PSY:7070</td>
<td>Seminar: Behavioral Biomedical Interface</td>
<td>1 s.h.</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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<td>PSY:7150</td>
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**Prerequisites:** PSY:5210.