

Political Science—PLS

920 Research Seminar in American Politics
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:NM: PLS 820.
Intensive study of one subfield of American politics. Critical evaluation of the literature.

950 Research Seminar in Comparative Politics
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 850)
Intensive study of one subfield of comparative politics. Critical evaluation of the literature.

960 Research Seminar in International Politics
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 860)
Intensive study of one subfield of international politics. Critical evaluation of the literature.

970 Research Seminar in Political Thought
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 870)
Intensive study of one subfield of political philosophy.

980 Research Seminar in Formal Theory
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 880)
Intensive study of one formal modeling technique used in political science research.

993 Readings in Political Science
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.
Supervised reading in a subfield of political science, public administration, or public policy.

999 Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to doctoral students in Political Science or Political Science-Urban Studies.
Doctoral dissertation research.

102 Elementary Portuguese II
Spring. 4(4-1) P: (PRT 101)
Further practice in using and understanding Portuguese to develop listening, speaking, reading, and writing skills. Pronunciation, grammar, vocabulary, and cultural topics.

201 Second-Year Portuguese I
Fall. 4(4-0) P: (PRT 102)
Intermediate level review and development of aural comprehension, speaking, reading, and writing skills. Topics in the cultures of the Portuguese-speaking world.

202 Second-Year Portuguese II
Spring. 4(4-0) P: (PRT 201)
Further review and development of aural comprehension, speaking, reading, and writing skills. Topics in the cultures of the Portuguese-speaking world.

290 Independent Study
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

320 Advanced Portuguese
Fall. 3(3-0) P: (PRT 202)
Conversation, reading, and writing to develop proficiency.

340 Topics in Luso-Brazilian Language and Culture
Spring. 3(3-0) P: (PRT 202)
Cultural issues related to Portuguese-speaking countries.

490 Independent Study
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Approval of department.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

602 Primary Care Ambulatory Clerkship
Fall, Spring, Summer. 1 to 36 credits. A student may earn a maximum of 36 credits in all enrollments for this course. Interdepartmental with Internal Medicine; Osteopathic Surgical Specialties; Pediatrics; Osteopathic Medicine; Family and Community Medicine. RB: Successful completion of the preclerkship requirements in College of Osteopathic Medicine Units I and II.

A 24-week ambulatory care continuity experience involving 12 weeks in a multidisciplinary environment (family medicine, pediatrics, and internal medicine), 4 weeks in family medicine and 8 weeks in specialty areas (internal medicine, surgery, pediatrics, and obstetrics and gynecology). Didactic sessions are scheduled concurrently.

608 Psychiatry and Behavioral Science Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: College of Osteopathic Medicine students must have passed all preclinical courses. R: Open only to graduate-professional students in Colleges of Human and Osteopathic Medicine.
Supervised practice with in-patient, out-patient, emergency, and community mental health services.

609 Adult Psychiatry Clerkship
Fall, Spring, Summer. 4 to 16 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: (PSC 608) R: Open only to graduate-professional students in Colleges of Human and Osteopathic Medicine.
Subspecialty experiences in psychiatry in clinical settings with adults.

610 Child Psychiatry Clerkship
Fall, Spring, Summer. 4 to 16 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: (PSC 608) R: Open only to graduate-professional students in Colleges of Human and Osteopathic Medicine.
Subspecialty experiences in psychiatry in clinical settings with child patients and their families.

PSYCHOLOGY

PSY

Department of Psychology College of Social Science

101 Introductory Psychology
Fall, Spring, Summer. 4(4-0)
Mind and behavior from biological, individual, and social perspectives. Scientific and professional aspects of psychology.

200 Cognitive Psychology
Fall, Spring, Summer. 3(3-0) P: (PSY 101)
Concepts, theories, methods, and research findings in human information processing. Attention, perception, memory, problem solving, decision making, and language comprehension and production.

PORTUGUESE

PRT

Department of Spanish and Portuguese College of Arts and Letters

101 Elementary Portuguese I
Fall. 4(4-1) R: No previous experience in Portuguese or approval of department.
Practice in using and understanding Portuguese to develop listening, speaking, reading, and writing skills. Pronunciation, grammar, vocabulary, and cultural topics.

PSYCHIATRY

PSC

Department of Psychiatry College of Human Medicine

591 Special Problems in Psychiatry
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.
Work under the direction of a faculty member on an experimental, theoretical, or applied problem.

- 204 Lesbian, Bisexual, and Gay Studies: Psychological and Cultural Issues**
Spring of odd years. 3(3-0) Interdepartmental with Women's Studies. Administered by Women's Studies Program.
Nature, origins, and development of sexual orientation and sexual identity in the context of personality, culture, and society. Multicultural and feminist perspectives on the relationship between sexual orientation and gender, race, class, ethnicity, and religion.
- 209 Brain and Behavior**
Fall, Spring. 3(3-0) P: (PSY 101)
Relation of structure and function of the nervous system to the biological bases of behavior.
- 235 Social Psychology**
Fall, Spring, Summer. 3(3-0) P: (PSY 101)
Not open to students with credit in SOC 241.
Major topics, theories, and research findings in social psychology, particularly as viewed from a psychological perspective.
- 236 Personality**
Fall, Spring, Summer. 3(3-0) P: (PSY 101)
Theories of personality, assessment techniques, and research on personality functioning and individual differences in interpersonal behavior. Emphasis on normal behavior.
- 239 Psychology of Women**
Fall. 3(3-0) P: (PSY 101)
Development and implications of sex-typed behavior and sex differences. Women's decisions about and experiences of menstruation, sexuality, motherhood, relationships, achievement, employment, retirement.
- 244 Developmental Psychology: Infancy Through Childhood**
Fall, Spring, Summer. 3(3-0) P: (PSY 101)
Physical, cognitive, emotional, and social development from infancy through childhood.
- 246 Sensitivity to Children I**
Fall. 3(2-2) P: (PSY 101) R: To receive credit PSY 246 and PSY 247 must be completed satisfactorily except by prior arrangement with instructor. Not open to students who have completed more than 6 credits of PSY 490 and PSY 491 combined.
First course of two-semester sequence that emphasizes weekly play with a child and analysis of videotaped sessions. Readings and discussions cover problems faced by parents, teachers and child therapists.
- 247 Sensitivity to Children II**
Spring. 3(2-2) P: (PSY 246) R: To receive credit PSY 246 and PSY 247 must be completed satisfactorily except by prior arrangement with instructor.
Weekly play with a child to understand child development and to increase skills in communicating with children.
- 255 Industrial and Organizational Psychology**
Spring, Summer. 3(3-0) P: (PSY 101)
Recruitment, selection, and training of personnel. Performance appraisal, leader behavior, worker attitudes and behavior, communication, group organization, and processes in the workplace.
- 270 Community Psychology**
Fall. 3(3-0) P: (PSY 101)
Theory and research in community psychology. Prevention, social change, dissemination models, empowerment, and measurement models.
- 280 Abnormal Psychology**
Fall, Spring, Summer. 3(3-0) P: (PSY 101)
Theory and research on dynamics, characteristics, and treatment of psychological disorders. Therapies and theories of prevention.
- 290 Exploring and Planning for Careers in Psychology**
Fall, Spring. 3(2-2) P: (PSY 101) Completion of Tier I writing requirement. R: Open only to sophomores in Psychology. Open only to juniors in Psychology.
Introduction to career options for psychology majors. Development of career preparation and career seeking skills.
- 295 Data Analysis in Psychological Research**
Fall, Spring, Summer. 3(3-0) P: (PSY 101) and (MTH 110 or MTH 114 or MTH 116 or MTH 124 or MTH 106) or (MTH 132 or MTH 152H or MTH 201 or STT 200 or STT 201) Not open to students with credit in STT 315.
Descriptive and inferential statistics as applied to the analysis of psychological research. Measurement, control, and research design with psychological variables. Data analysis. Interpreting research findings. Relations between research and theory.
- 310 Psychology and Biology of Human Sexuality**
Spring of odd years. 3(3-0) Interdepartmental with Zoology. P: (PSY 101 or concurrently) and (BS 110 or concurrently or BS 111 or concurrently or LBS 144 or concurrently or LBS 145 or concurrently or LBS 148H or concurrently or LBS 149H or concurrently) Not open to students with credit in FCE 445.
Sexual behavior from biological, psychological and neuroscience perspectives. Sexual differentiation of the body. Role of hormones in development and reproduction in humans and other animals. Human sexual orientation. Fertility and contraception. Sexual disorders. Sexually transmitted diseases.
- 320 Health Psychology**
Fall, Spring. 3(3-0) P: (PSY 101)
Social, psychological, and biological factors affecting health, illness, and use of health services. Stress and coping processes, lifestyles, and illness management.
- 325 Affect and Self Esteem**
Fall, Spring. 3(3-0) P: (PSY 101)
Psychological study of affect as a mediator of stress, self esteem, and powerlessness. Development of psychological health, personal identity, and interpersonal competence through principles of affect.
- 330 Personality from a Psychoanalytic Perspective**
Fall, Spring. 3(3-0) P: (PSY 101)
A Freudian framework, including psychosocial development, dreams, unconscious processes, defense mechanisms, prejudice, discrimination, cults, inability to sleep, anxiety, depression, schizophrenia, sexual problems, and love.
- 344 Developmental Psychology: Adolescence Through Youth**
Spring, Summer. 3(3-0) P: (PSY 244)
Theory and research in physical, cognitive, emotional, and social development from puberty to early adulthood.
- 371 Psychological Innovations and Research I**
Fall, Spring, Summer. 4(2-4) P: (PSY 101) R: Approval of department. To receive credit PSY 371 and PSY 372 must be completed satisfactorily except by prior arrangement with instructor. Not open to students who have completed more than 6 credits of PSY 490 and PSY 491 combined.
First course of two-semester sequence. Theoretical and technical background and direct involvement in a major psychological innovation or research project.
- 372 Psychological Innovations and Research II**
Fall, Spring, Summer. 4(2-4) P: (PSY 371)
Second course of a two-course sequence. Theoretical and technical background and direct involvement in a major psychological innovation or research project
- 395 Research Design and Measurement in Psychological Research**
Fall, Spring, Summer. 3(2-2) P: (PSY 295) SA: PSY 304
Validity and reliability concepts in psychological measurement and causal inference. Experimental design in psychological research.
- 401 Memory and Skill (W)**
Fall of even years. 3(3-0) P: (PSY 200 and PSY 295) and completion of Tier I writing requirement.
Human learning, memory, and skilled performance. Effects of attention, practice, and knowledge on cognitive and perceptual motor skills.
- 402 Sensation and Perception (W)**
Fall of even years. 3(3-0) P: (PSY 295) and (PSY 200 or PSY 209) and completion of Tier I writing requirement.
Biological and psychological approaches to the study of the extraction, representation, and interpretation of sensory information. Review of major methodologies. Emphasis on vision.
- 403 Laboratory in Cognitive Psychology (W)**
Fall, Spring. 3(2-2) P: (PSY 200 and PSY 295) and completion of Tier I writing requirement. SA: PSY 302
Rationale, methods, data analysis, and interpretation of experimental research in cognitive psychology.
- 405 History of Modern Psychology (W)**
Spring. 3(3-0) P: (PSY 295) and completion of Tier I writing requirement. R: Open only to juniors or seniors in the Department of Psychology.
Themes, periods, and contributions of the leading psychologists. Psychological systems such as behaviorism, cognition, and psychoanalysis. Evolution of psychological concepts. Social context.
- 409 Psychobiology of the Life Span (W)**
Spring of odd years. 3(3-0) P: (PSY 209 or ZOL 402) and completion of Tier I writing requirement.
Current research on the development and aging of the brain. Aging and behavior.
- 410 Neurobiology of Learning and Memory (W)**
Fall. 3(3-0) P: (PSY 209 or ZOL 402) and completion of Tier I writing requirement. SA: PSY 308
Neural mechanisms responsible for learning and memory.

Psychology—PSY

- 411 Hormones and Behavior (W)**
Spring of even years. 3(3-0) P: (PSY 209 or ZOL 402) and completion of Tier I writing requirement.
Current research on biological mechanisms that control motivation in humans and non-human species.
- 413 Laboratory in Behavioral Neuroscience (W)**
Fall. 4(2-4) Interdepartmental with Zoology. P: (PSY 209 or ZOL 402) and (PSY 295 or concurrently or STT 201) and completion of Tier I writing requirement. SA: PSY 309
Theory and laboratory experience in the study of behavioral neuroscience. Relationship among hormones, brain, and behavior.
- 424 Child and Family Psychopathology (W)**
Fall, Spring, Summer. 3(3-0) P: (PSY 244 and PSY 295) and completion of Tier I writing requirement. R: Open only to juniors or seniors in the Department of Psychology or students in the Psychology disciplinary minor.
Description, etiology, and developmental patterns of behavior problems of children, adolescents, and their families. Child and family interventions.
- 440 Attitudes and Social Cognition (W)**
Fall of even years. 3(3-0) P: (PSY 235 and PSY 295) and completion of Tier I writing requirement. R: Open only to juniors or seniors in the Department of Psychology.
Psychological research on the cognitive foundations of social behavior. Attribution, stereotyping, impression formation, social memory, and persuasion.
- 441 Interpersonal Behavior and Groups (W)**
Spring of even years. 3(3-0) P: (PSY 235 and PSY 295) and completion of Tier I writing requirement. R: Open only to juniors or seniors in the Department of Psychology.
Major theories and research findings in the social psychology of group processes and interpersonal relationships.
- 442 Stereotypes, Prejudice, and Discrimination (W)**
Fall of odd years. 3(3-0) P: (PSY 235 and PSY 295) and completion of Tier I writing requirement. R: Open only to juniors or seniors in the Department of Psychology or in the Interdisciplinary Studies in Social Science major.
Cognitive processes in stereotyping. Contribution of affect and motivation to the linkages among stereotypes, prejudice, and discrimination.
- 450 Thinking Critically About Psychological Research (W)**
Spring. 3(3-0) P: (PSY 295) and completion of Tier I writing requirement. SA: PSY 307
Statistical and methodological principles from the perspective of a critical consumer of research results. Recognizing non-empirical assertions, necessary bases for inferring relationships and causal relationships, common threats to research validity, and pertinent biases in human judgment.
- 455 Organizational Research Techniques (W)**
Spring. 3(3-0) P: (PSY 255 and PSY 395) and completion of Tier I writing requirement. R: Open only to juniors or seniors in the Department of Psychology or in the Interdisciplinary Studies in Social Science major.
Quantitative psychological research techniques applied to human resource problems in organizations. Survey research, job analysis, training needs analysis, evaluation and selection, and test validation.
- 463 Introduction to Cognitive Science**
Spring. 3(3-0) Interdepartmental with Linguistics; Philosophy. Administered by Department of Linguistics and Germanic, Slavic, Asian and African Languages. RB: (PHL 462 or LIN 401 or CSE 440 or PSY 200)
Cognitive processing of information by animals, humans, and computers. Relevant issues in philosophy, linguistics, psychology, neurophysiology, and artificial intelligence.
- 475 Personality Theories (W)**
Spring of odd years. 3(3-0) P: (PSY 236) and completion of Tier I writing requirement. R: Open only to juniors or seniors in the Department of Psychology.
Major personality theories of development, structure, and dynamics. Implications for behavioral disorders and therapy.
- 490 Special Problems in Psychology**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. P: (PSY 295) R: Open only to juniors or seniors with at least 9 credits in psychology. Students are limited to a combined total of 9 credits in PSY 490 and PSY 491. Students who completed PSY 246, PSY 247 are limited to a combined total of 6 credits in PSY 490 and PSY 491. Approval of department.
Each student will work under direction of a faculty member on an experimental, theoretical, or applied problem.
- 491 Participation in Psychological Project**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to juniors or seniors with at least 9 credits in psychology. Students are limited to a combined total of 9 credits in PSY 490 and PSY 491. Students who completed PSY 246, PSY 247 are limited to a combined total of 6 credits in PSY 490 and PSY 491. Approval of department.
Each student will participate in a psychological project under direction of a faculty member.
- 492 Special Topics in Psychology**
Fall, Spring. 1 to 3 credits. P: (PSY 101 and PSY 295)
Special topics supplementing regular course offerings proposed by faculty.
- 493 Issues in Psychology (W)**
Fall, Spring. 3(3-0) P: (PSY 101 and PSY 295) and completion of Tier I writing requirement.
Current information, research, and practice in psychology.
- 498H Development of Research Proposal**
Fall, Spring, Summer. 3(0-6) R: Approval of department.
Independent research with faculty supervision. Literature survey, naturalistic observation, and experimental investigation. Preparation of the proposal for the Senior Honors Thesis.
- 499H Senior Honors Thesis**
Fall, Spring, Summer. 3(0-6) P: (PSY 498H) R: Approval of department.
Continuation of independent research with faculty supervision. Completion of senior honor thesis.
- 801 Sensation and Perception**
Fall of odd years. 3(3-0) RB: (PSY 401) or approval of department. R: Open only to graduate students in Psychology.
Biological and psychological approaches to the study of extraction, representation, and interpretation of sensory information. Review of major methodologies. Emphasis on vision.
- 802 Basic Cognitive Processes**
Fall. 3(3-0) R: Open only to graduate students in the Department of Psychology or Interdepartmental Graduate Specializations in Cognitive Science or approval of department. SA: PSY 810
Advanced exploration of methods used to study human cognition as applied to sensory processes, perception, attention, memory, and control of action
- 803 Higher Order Cognitive Processes**
Spring. 3(3-0) R: Open only to graduate students in the Department of Psychology or Interdepartmental Graduate Specializations in Cognitive Science or approval of department. SA: PSY 810
Advanced exploration of inductive and deductive reasoning, categorization, analogy, decision making, and problem solving
- 804 Molecular and Developmental Neurobiology**
Fall. 3(3-0) Interdepartmental with Neuroscience; Pharmacology and Toxicology; Pathology; Zoology. Administered by Program in Neuroscience. RB: Bachelor's degree in a Biological Science or Psychology. R: Open only to graduate students in the Neuroscience major.
Nervous system specific gene transcription and translation. Maturation, degeneration, plasticity and repair in the nervous system.
- 805 History of Psychology**
Spring. 4(4-0) R: Open only to graduate students in Psychology.
Scientific, cultural, philosophical, and personal influences in the development of psychology. Persisting issues.
- 806 Advanced Neuroscience Techniques Laboratory**
Spring. 3(0-9) Interdepartmental with Neuroscience; Pharmacology and Toxicology; Radiology; Physical Medicine and Rehabilitation. Administered by Program in Neuroscience. RB: (PHM 827) R: Open only to doctoral students in the Neuroscience major.
Methods and underlying principles of neuroscience research.

- 809 Developmental Psychobiology**
Fall of odd years. 3(3-0) RB: (PSY 409) or approval of department. R: Open only to graduate students in Psychology.
Basic principles of neural development over the life span.
- 811 Advanced Behavioral Neuroscience**
Spring. 3(3-0) Interdepartmental with Neuroscience. RB: (PSY 411) or approval of department. R: Open only to graduate students in the Psychology and Neuroscience major.
Biological mechanisms involved in learning and memory, motivated behaviors, biological rhythms, and psychopathologies.
- 814 Psycholinguistics**
Spring of even years. 3(3-0) RB: (PSY 414) R: Open only to graduate students in Psychology.
Language processing. Speech perception, lexical representation and access, sentence parsing, discourse comprehension and memory, and language production.
- 815 Quantitative Research Design and Analysis in Psychology**
Fall. 4(3-2) R: Open only to graduate students in Psychology.
Design and analysis of psychological research. Applied descriptive and inferential statistical procedures. Emphasis on discerning and confirming structural relationships among psychological variables. Analysis of variance, regression, and related methods.
- 818 Psychometric Theory and Test Construction**
Spring. 3(3-0) RB: (PSY 817) R: Open only to graduate students in Psychology.
Classical and item response theory approaches to test development. Validation of measures.
- 828 Clinical Assessment**
Fall. 3(2-2) R: Open only to graduate students in Psychology.
Cognitive, neuropsychological, projective, and behavioral assessment. Ethical and statistical issues of assessment.
- 829 Child and Family Assessment**
Spring of even years. 4(3-2) RB: (PSY 828) R: Open only to graduate students in Psychology.
Assessment of behavioral, cognitive, psychomotor, and emotional problems in children and families.
- 831 Personality Assessment**
Fall of odd years. 4(3-2) RB: (PSY 828) R: Open only to graduate students in Psychology.
Objective and projective personality measures for adults. MMPI, Rorschach, Thematic Apperception Test, and other selected measures.
- 834 Social and Personality Psychology**
Fall. 3(3-0) Not open to students with credit in SOC 870.
Major theoretical and empirical problems in social and personality psychology.
- 835 Research Methods: Interpersonal and Individual Behavior**
Spring. 3(2-2) RB: (PSY 815 or concurrently) R: Open only to graduate students in Psychology.
Strategies and tactics for conducting systematic empirical research on complex human functioning. Social and clinical phenomena.
- 836 Personality Processes and Social Behavior**
Fall of odd years. 3(3-0) R: Open only to graduate students in the Psychology major or approval of department.
Effects of personality processes on social behavior. Laboratory research of experimental, personality, and social psychologists.
- 837 Social Cognition**
Spring of even years. 3(3-0) RB: 15 credits of social sciences. R: Open only to graduate students in the Psychology major or approval of department. SA: PSY 842A
Research on cognitive mediators of social behavior and life outcomes. Attribution, person perception, stereotyping, attitudes, and social memory.
- 838 Interpersonal Behavior and Relationships**
Fall of even years. 3(3-0) RB: 15 credits in the social sciences. R: Open only to graduate students in the Psychology major or approval of department. SA: PSY 842B
Theory and empirical research on interpersonal processes. Social comparison, social support, self-evaluation, relationship development and dissolution, attraction, and love.
- 839 Systems Neuroscience**
Spring. 4(4-0) Interdepartmental with Neuroscience; Human Anatomy; Pharmacology and Toxicology; Physiology; Zoology. Administered by Program in Neuroscience. R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Agriculture and Natural Resources, Natural Science, Social Science, and Veterinary Medicine. SA: ANT 839
Anatomy, pharmacology, and physiology of multicellular neural systems. Sensory, motor, autonomic, and chemo-regulatory systems in vertebrate brains.
- 840 Group Processes**
Spring of odd years. 3(3-0) RB: 15 credits in the social sciences. R: Open only to graduate students in the Psychology major or approval of department. SA: PSY 842C
Contemporary theory and research dealing with the individual in a group context.
- 841 Advanced Endocrine Physiology and Pharmacology**
Fall. 4(4-0) Interdepartmental with Physiology; Animal Science; Pharmacology and Toxicology. Administered by Department of Physiology. RB: (BMB 461 and PSL 432) R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Veterinary Medicine, Natural Science, and Agriculture and Natural Resources.
Basic and advanced concepts of endocrine and reproductive physiology and pharmacology.
- 845 Developmental Psychology: Infancy**
Fall of even years. 4(3-2) R: Open only to graduate students in Psychology.
Prenatal development. Infancy to three years. Basic processes, caregiver-infant relationships, social-cultural context, and assessment from a developmental biopsychosocial systems perspective.
- 847 Developmental Psychology: Adolescence**
Fall of odd years. 3(3-0) R: Open only to graduate students in Psychology.
Research and theory in human psychological development from puberty until adulthood.
- 851 Neuropsychology**
Fall. 4(4-0) R: Open only to graduate students in Psychology.
Basic research and theory in neuropsychology of cognition, language, memory, emotion, motor skill, and lateralization of function. Emphasis on human functions.
- 852A Neuropsychological Assessment**
Spring of odd years. 3(3-0) RB: (PSY 811 and PSY 851) R: Open only to graduate students in Psychology.
Diagnosis of brain injuries through the study of brain behavior processes. Concepts and tools relevant for neuropsychological examinations.
- 852B Neuropsychological Assessment Laboratory**
Spring of even years. 3(0-6) R: Open only to graduate students in the Psychology major.
Theory and clinical interpretation of the Halstead Reitan Test Battery and selected other neuropsychological tests.
- 853 Behavior Disorders**
Fall. 4(4-0) R: Open only to graduate students in Psychology.
Classification, description, and etiology of behavior disorders. Conceptual models, epidemiology, and review of major diagnostic classification systems.
- 854 Behavior Disorders in Children and Families**
Spring. 4(4-0) RB: (PSY 853) R: Open only to graduate students in Psychology.
Developmental psychopathology. Explanations for the development of child behavior disorders.
- 855 Theory and Practice of Psychotherapy**
Spring. 3(3-0) R: Open only to graduate students in Psychology or Psychology-Urban Studies.
Theoretical approaches to psychotherapy, and the practical application of techniques derived from these theories. Ethnic and gender issues in therapy.
- 860 Industrial and Organizational Psychology**
Fall. 3(3-0) R: Open only to graduate students in Psychology.
Theory, research, and practice in organizational training, development, and behavior.
- 862 Organizational Psychology and Behavior**
Spring. 3(3-0) R: Open only to graduate students in Psychology.
Theory and research on individual behavior in complex organizations. Industrial and organizational psychology. Linking macro- and micro- research and theory.
- 863 Seminar in Cognitive Science**
Fall, Spring. 1(1-0) A student may earn a maximum of 2 credits in all enrollments for this course. RB: Prior or current graduate-level work in at least one cognitive science related field
Contemporary issues, problems, theories, and data in cognitive science, seen from a variety of perspectives
- 864 Personnel Selection**
Spring of odd years. 3(3-0) R: Open only to graduate students in the Psychology major.
Methods and research in personnel selection. Job analysis, performance appraisal, and development of predictors. Evaluating validity, reliability, and utility of selection procedures.

Psychology—PSY

865 Research Methods in Applied Psychology
Fall. 3(3-0) RB: (PSY 815) R: Open only to graduate students in the Department of Psychology major.

Human resource issues and applied research. Measurement problems and issues. Planning, conducting, analyzing, and disseminating applied research.

867 Nature and Practice of Cognitive Science
Spring. 3(3-0) Interdepartmental with Zoology; Linguistics; Philosophy; Computer Science and Engineering. Administered by Department of Zoology. RB: Undergraduate course work in behavioral biology, cognitive psychology, philosophy, linguistics, or artificial intelligence.

Survey of how different disciplines explore the cognitive processes underlying intelligent behavior.

870 Ecological-Community Psychology
Fall. 3(3-0) RB: (PSY 815 or concurrently) R: Open only to graduate students in Psychology.

Theory, methodology and research in experimental ecological approaches to community psychology. Identifying researchable problems and funding. The dynamics of research teams.

871 History and Theory in Ecological-Community Psychology
Fall. 3(3-0) RB: (PSY 815 or concurrently) R: Open only to graduate students in Psychology.

Theoretical perspectives, contemporary problems, philosophies of science, and ethical issues facing the ecological psychologist.

872 Field Research in Psychology
Spring. 3(2-2) RB: (PSY 815) R: Open only to graduate students in Psychology.

Unobtrusive, observational, and interview measures. Policy analysis, proposal preparation, and research design.

873 Community Interventions
Spring. 3(2-2) RB: (PSY 815 and PSY 870 and PSY 871) R: Open only to graduate students in Psychology.

Entry and operational issues in community interventions and research. Group dynamics, community politics, intervention integrity.

890 Special Problems in Psychology
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to graduate students in Psychology.

Supervised student research on an experimental, theoretical, or applied problem.

899 Master's Thesis Research
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 35 credits in all enrollments for this course. R: Open only to graduate students in Psychology.

Master's thesis research.

926 Scientific and Professional Ethics
Spring of even years. 3(3-0) R: Open only to graduate students in Psychology.

Ethical issues in human and animal research. Ethical decisions involving issues of gender, ethnicity, and cultural diversity in psychological practice.

950 Advanced Child and Family Interventions
Fall. 3(3-0) RB: (PSY 854) or approval of department. R: Open only to graduate students in Psychology, Marriage and Family Therapy, and Counseling Psychology.

Intervention approaches with children, families and couples. Psychodynamic, experiential, and family systems perspectives. Empirical basis for interventions.

952 Psychodynamic Theory, Research and Intervention Across the Life Span
Fall of odd years. 3(3-0) RB: (PSY 853 and PSY 854) Graduate courses in behavior disorders.

Psychodynamic theories. Research on psychodynamic theoretical concepts and interventions. Intervention concepts, techniques, and types.

953 Social Systems: Theory, Research, and Intervention Across the Life Span
Fall of even years. 3(3-0)

Theories. Current research, and intervention strategies for communities, families, couples, and groups across the life span.

954 Cognitive-Behavioral Theory, Research, and Intervention Across the Life Span
Spring of even years. 3(3-0) RB: Course(s) in behavioral disorders.

Theories, techniques, and empirical bases of behavioral and cognitive-behavioral psychotherapy.

961 Training and Organizational Development
Spring of odd years. 3(3-0) RB: (PSY 860) R: Open only to graduate students in Psychology.

Theory and research on identification, development, and evaluation of training activities in organizations. Analysis of organizational functioning and change.

962 Work Motivation and Job Satisfaction
Fall of odd years. 3(3-0) RB: (PSY 860) R: Open only to graduate students in Psychology.

General theories of human motivation, attitudes, and affect. Specific theories of work motivation and job satisfaction.

970 Advanced Topics in Ecological and Community Psychology
Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to graduate students in Psychology.

Contemporary ecological and community psychology issues. Program evaluation, systems analysis. Empowerment, social support, and homelessness.

992 Seminar in Psychology
Fall, Spring. 3(3-0) A student may earn a maximum of 18 credits in all enrollments for this course. R: Open only to graduate students in Psychology.

Theoretical and research topics in psychology.

994 Practicum
Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. R: Open only to graduate students in Psychology or Psychology-Urban Studies.

Clinical assessment, consultation, and psychotherapy. Supervised experience in assessment, consultation, and psychotherapy with adults, families, and children. Didactic seminar in related theory and research.

999 Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 75 credits in all enrollments for this course. R: Open only to doctoral students in Psychology or Psychology-Urban Studies.

Doctoral dissertation research.

RADIOLOGY

RAD

Department of Radiology College of Human Medicine

401 Quantitative Human Biology
Spring. 3(4-0) Interdepartmental with Biomedical Engineering; Materials Science and Engineering; Human Anatomy. Administered by College of Engineering. P: (MTH 235 and PHY 184) and (PSL 250 or concurrently or PSL 431 or concurrently) and (CEM 141 or CEM 151) and (ANTR 350 or concurrently) RB: (CSE 131 or concurrently or CSE 231 or concurrently or PSL 410)

Qualitative description and quantitative engineering analysis of selected, tractable human-biological systems. Multi-disciplinary problem-solving among medical and engineering professionals.

552 Medical Neuroscience
Spring. 4(3-2) Interdepartmental with Neurology and Ophthalmology; Physiology; Human Anatomy. Administered by Department of Neurology and Ophthalmology. R: Graduate-professional students in the Colleges of Human Medicine and Osteopathic Medicine. SA: ANT 552

Correlation of normal structure and function of the human nervous system with clinical testing, classical lesions, and common diseases.

553 Introduction to Radiology
Spring. 1(1-0) R: Graduate-professional students in colleges of Human and Osteopathic Medicine or approval of department. Principles of medical diagnostic radiology: means of generating diagnostic images, and anatomical and physiological changes that result in such images.

590 Independent Study
Fall, Spring, Summer. 1 to 3 credits. R: Approval of department. Special aspects of radiology. Imaging as a diagnostic tool in patient management.

609 Radiology Clerkship
Fall, Spring, Summer. 4 to 8 credits. A student may earn a maximum of 32 credits in all enrollments for this course. R: Completion of two years of graduate-professional program in College of Human Medicine or College of Osteopathic Medicine.

Diagnostic imaging consultation. Participation in image interpretation and observation in hospital or out-patient radiology setting.