Psychological Sciences (PSYC)

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5100. History of Psychology

Three credits. Prerequisite: Open only to Psychological Sciences graduate students, others with consent.

Intellectual antecedents to contemporary clinical, developmental, experimental, and social psychology.

5101. Motivation

(Also offered as COMM 5101.) Three credits.

Theories of motivation considered in relation to their supporting data.

5104. Foundations of Research in the Psychological Sciences I

Three credits. Prerequisite: Open only to Psychological Sciences graduate students, others with consent.

Introduction to the logic of experimental design and data analysis in the psychological sciences. Analysis of group designs, especially analysis of variance, and introduction to hypothesis testing.

5105. Foundations of Research in the Psychological Sciences II

Three credits. Prerequisite: PSYC 5104; open only to Psychological Sciences graduate students, others with consent.

Expands on material covered in PSYC 5104, including the development and application of correlational methods specific to conducting and understanding research in the psychological sciences.

5120. Health Psychology

Three credits. Prerequisite: Instructor consent.

Interaction of biological, psychological, and social factors in health. Topics include disease prevention and health promotion, psychosocial factors in treatment of illness, and stress and coping processes.

5121. Research Methods in Health Psychology

Three credits. Prerequisite: STAT 3115Q and 5105 or equivalent statistics course; instructor consent required.

Research designs, methods, and data analysis strategies used in health promotion and disease prevention research (e.g., case control studies, randomized clinical trials).

5123. Occupational Health Psychology

Three credits. Prerequisite: STAT 5105 or NURS 5020 or PUBH 5434; instructor consent required.

Introduction to research in occupational health and the field of occupational health psychology in a proseminar format. Topics include work stress, worker participation in hazard management, epidemiology of occupational exposures, workplace incivility, and design of safe work environments.

5131. Meta Analysis: Theory and Practice

Three credits. Prerequisite: STAT 5105; instructor consent required.

Methods of research synthesis, including the literature review and the place of quantitative methods in drawing conclusions from existing empirical research. Introduces the statistical techniques of meta-analysis, which integrates the results of independent studies addressing the same hypothesis.

5140. Foundations in Neuropsychology

Three credits.

An introduction to neuropsychology, including functional neuroanatomy, neurochemistry, neuropharmacology and cognitive/emotional function and dysfunction.

5141. Neuropsychological Assessment

Three credits. Prerequisite: PSYC 5140; instructor consent required.

An introduction to clinical neuropsychological assessment, including review of neuroanatomy and neuropsychological functions, common syndromes of neuropsychological dysfunction, specific tests to measure neuropsychological functions and professional issues for the neuropsychologist.

5150. Neurodevelopment and Plasticity

(Also offered as COGS 5130.) Three credits. Prerequisite: Open only to graduate students in Psychological Sciences; Speech, Language and Hearing Sciences; and Physiology and Neurobiology; instructor consent required.

Overview of brain development including embryonic neurogenetics; evolution and evo-devo; how emergent behavioral capabilities reflect neural growth in neurobehavioral development; and how disruptions of neurodevelopment cause developmental disabilities. Offered alternating years in spring semester.

5170. Current Topics in Psychology

Variable (1-6) credits. Prerequisite: Instructor consent. May be repeated for credit.

Selected topics in psychology are studied with particular attention to recent developments in the field.

5171. Special Topics in Cognitive Science

Three credits. May be repeated for up to 12 credits with change in content.

5200. Behavioral Neuroscience Research Seminar

Two credits. Prerequisite: Instructor consent. May be repeated for a total of eight credits.

Seminar on current research, with intra- and extra-mural colloquium speakers.

5228. Neuropsychopharmacology

Three credits. Prerequisite: Instructor consent.

Review of the anatomy and physiology of the CNS and then discuss the effects of pharmacological agents on it. Topics include general anesthetics, hypnotics and sedatives, anticonvulsants, alcohol, muscle relaxants, tranquilizers, hallucinogens, and narcotics. Student presentations will treat topics relating the CNS and behavioral pharmacology.

5251. Neural Foundations of Learning and Memory

Three credits. Prerequisite: Instructor consent.

Examination of the processes involved in habituation, conditioning, learning, and memory through a study of the neural elements and systems involved in their production and maintenance.

5257. Physiological Psychology Laboratory

Three credits. Prerequisite: Instructor consent.

Techniques used in the study of physiological psychology, including ablation, electrical and chemical stimulation, and electrophysiological recording of the nervous system.

5270. Current Topics in Behavioral Neuroscience

Variable (1-6) credits. Prerequisite: Instructor consent. May be repeated credit.

Special problems or areas of research are studied with particular attention to recent developments in the field.

5271. Special Topics in Behavioral Neuroscience

Three credits. May be repeated for a total of 12 credits with a change in topic.

5285. Neurobiology of Aging: Changes in Cognitive Processes

Three credits. Prerequisite: Instructor consent.

Neural basis of age-related changes in learning and memory. Both the normal aging process and age-related pathologies examined. Encompasses both animal models and human data.

5300. Research Seminar in Clinical Psychology

One credit. Prerequisite: Open only to graduate students in the Clinical Psychology concentration. May be repeated for a maximum of 12 credits. Students taking this course will be assigned a final grade of S (satisfactory) or U (unsatisfactory).

Advanced seminar presentations by faculty, graduate students, and visiting speakers on current theoretical developments and empirical research in clinical psychology.

5301. Practicum in Interviewing and Cognitive Assessment

Three credits. Prerequisite: Open only to graduate students in the Clinical Psychology concentration.

An introduction to psychological assessment with supervised practice in administering and interpreting clinical interviews and psychological tests.

5302. Adult Psychopathology

Three credits. Prerequisite: Open only to graduate students in the Clinical Psychology concentration.

Theoretical and descriptive overviews of mental disorder that afflict adults, emphasizing etiology, diagnosis, and conceptualization.

5303. Developmental Psychopathology

Three credits. Prerequisite: Open only to graduate students in the Clinical Psychology concentration.

An examination of diagnosis, etiology, and prognosis in child psychopathology.

5304. Practicum in Personality Assessment

Three credits.

Supervised practice in administration and interpretation of clinical tests and case history material, report writing and discussion of implications of diagnostic data for therapeutic procedures.

5305. Psychodynamics

Three credits. Prerequisite: Open only to graduate students in the Clinical Psychology concentration.

Overview of theoretical and empirical literature about theories of personality development and models of behavior change processes.

5306. Professional Issues in Clinical Psychology

Three credits. Prerequisite: Open only to graduate students in the Clinical Psychology concentration.

An examination of the relations among the law, ethical issues, and professional practices of clinical psychologists and of other providers of mental health services.

5307. Empirically Supported Therapy

Three credits. Prerequisite: Open only to graduate students in the Clinical Psychology concentration.

Instruction in and supervised practice of empirically supported therapeutic techniques and treatments.

5322. Methods of Child and Family Therapy in Clinical Psychology

Three credits. Prerequisite: PSYC 5307; open only to Psychological Sciences graduate students in the Clinical Psychology concentration.

Overview of multiple intervention models for therapy with children and families.

5332. Research Design and Test Construction

Three credits. Prerequisite: Open only to graduate students in the Clinical Psychology concentration.

Theoretical issues and practical problems in developing valid measures of personality variables and in designing experimental and quasi-experimental research.

5344. The History and Systems of Psychology

One credit. Prerequisite: PSYC 5307; open only to Psychological Sciences graduate students in the Clinical Psychology concentration.

An overview of the trends in philosophy and early psychology that shaped the present course of the discipline.

5370. Current Topics in Clinical Psychology

Three credits. Prerequisite: Open only to graduate students in the Clinical Psychology concentration; instructor consent required. May be repeated for credit.

5371. Special Topics in Clinical Psychology

Three credits. May be repeated for a total of 12 credits with a change in topic.

5399. Clinical Psychology Research Group

One credit. Prerequisite: Open only to graduate students in the Clinical Psychology concentration; instructor consent required. May be repeated for a maximum of 12 credits.

Discussion of ongoing research of faculty and graduate students

5400. Research Seminar in Developmental Psychology

One credit. Prerequisite: Open only to Psychological Sciences graduate students; instructor consent required. May be repeated for a maximum of 12 credits.

Current research in developmental psychology, with intra- and extramural speakers and directed readings.

5410. Advanced Developmental Psychology

Three credits. Prerequisite: Instructor consent.

Undertakes, at an advanced level, a developmental treatment of child behavior on the basis of experimental findings and psychological theory.

5420. Cognitive Development

Three credits. Prerequisite: Instructor consent.

Current theory and research on children's conceptual development.

5424. Cognitive Neuroscience of Language Across the Lifespan

(Also offered as COGS 5150.) Three credits. Prerequisite: Open only to Psychological Sciences, Linguistics, and Speech, Language and Hearing Sciences graduate students.

The cognitive neuroscience approach to the study of language across the lifespan. Recent advances in neuroimaging techniques such as MRI, ERP, TMS, and fNIRS are combined with classic lesion studies to address the neurobiological bases of typical and atypical language processing.

5425. Developmental Cognitive Neuroscience

Three credits.

Survey of current research and methods in developmental cognitive neuroscience, an interdisciplinary scientific field at the boundaries of neuroscience, developmental psychology, and cognitive science.

5440. Development of Language and Related Processes

Three credits. Prerequisite: Open only to Psychological Sciences graduate students, others with consent.

Experimental and descriptive study of the child's language processes, with emphasis on acquisition, structure, meaning, thought, and the influence of verbal processes on nonverbal behavior.

5441. Language Modality, Neural Plasticity, and Development

Three credits. Prerequisite: Open only to Psychological Sciences, Linguistics, and Speech, Language and Hearing Sciences graduate students.

An integrative approach that reveals the contribution of sign language research to the understanding of human neural plasticity. Diverse research programs and methodologies (e.g., emerging languages, neuroimaging) are combined with behavioral studies (e.g., cognitive psychology) to address the effects of variable language experiences on language development, cognitive development, and neural organization for language.

5445. Neurobiology of Language: Typical and Atypical Cognition and Language Development

(Also offered as COGS 5140.) Three credits. Prerequisite: Open only to graduate students in Psychological Sciences; Speech, Language and Hearing Sciences; and Physiology and Neurobiology. Recommended preparation: one of COGS 5110, 5120, 5130, 5150; LING 5110; PSYC 5440; or SLHS 5348.

Survey of current research on language acquisition in developmentally delayed/pathological populations, including but not restricted to Autism, Williams Syndrome, Down Syndrome, and Specific Language Impairment. Examination of what the language delays and deficits reveal about each disorder, the processes of language acquisition, the representation and organization of language, and the biology/neuropsychology/genetics of language.

5450. Infancy and the Effects of Early Experience

Three credits. Prerequisite: Instructor consent.

Data and theory concerning the effects of early experience in infancy on behavioral and physiological development. Cross-species comparisons are emphasized.

5460. Social and Personality Development

Three credits. Prerequisite: Instructor consent.

Fundamental research and theory on social behavior, social cognition, and interpersonal relations in the preschool period (2-6 years) and in middle childhood (6-12 years). Early childhood precursors and consequences in adolescence. Both normative and atypical development.

5470. Current Topics in Developmental Psychology

Three credits. Prerequisite: Instructor consent. May be repeated for credit.

Selected topics in developmental psychology are studied with particular attention to current research and theoretical trends.

5471. Special Topics in Developmental Psychology

Three credits. May be repeated for a total of 12 credits with a change in topic.

5499. Research Team in Developmental Psychology

One credit. Prerequisite: Open only to Psychological Sciences graduate students; instructor consent required. May be repeated for a maximum of 12 credits. Students taking this course will be assigned a final grade of S (satisfactory) or U (unsatisfactory).

Planning and execution of both individual and collaborative research projects in developmental psychology.

5500. Research Seminar in Language and Cognition

One credit.

5513. Memory

Three credits. Prerequisite: Instructor consent.

Contrasts associationist, cognitive, connectionist, and cognitive neuroscience approaches to issues involving short-term memory, long-term memory, and the representation of knowledge.

5515. Connectionist Models

Three credits. Prerequisite: Instructor consent.

Connectionist models in psychology and computational neuroscience. Topics include learning, memory, and language processes in both intact and damaged networks.

5553. Introduction to Nonlinear Dynamics

Three credits. Prerequisite: Instructor consent.

Basic concepts and methods of nonlinear dynamics systems theory applied to behavioral time-series data.

5554. Advanced Nonlinear Dynamics for the Behavioral Sciences

Three credits. Prerequisite: PSYC 5553; instructor consent required.

Advanced concepts and methods of nonlinear dynamics systems theory applied to behavioral time-series data.

5564. Dynamics of Language and Cognition

Three credits.

Application of dynamical systems theory to language modeling.

5567. Cognition

Three credits.

An introduction to theories of human cognition.

5568. Psychology of Language

Three credits. Prerequisite: Instructor consent.

Psychological aspects of linguistic structure, with particular attention to phonology.

5570. Current Topics in Cognitive Science

Three credits. Prerequisite: Instructor consent. May be repeated for credit.

Special topics in cognitive systems theory are reviewed with particular emphasis on techniques for the intrinsic measurement of systems behavior including information processing capacities and goal achievements. Students are required to apply the techniques discussed to an ongoing research topic of their own choosing.

5571. Sensation and Perception I

Three credits. Prerequisite: Instructor consent.

Relations among physical, physiological, and psychological variables in selected sensory and perceptual processes. Attention is given to problems of measurement, empirical findings, and theoretical interpretations.

5572. Sensation and Perception II

Three credits. Prerequisite: PSYC 5571.

A continuation of Psychology 5571.

5574. Control and Coordination of Action

Three credits. Prerequisite: Instructor consent.

Covers the ecological approach; movement as the product of a representational/computational system; intentionality; physical principles of self-organization and cooperativity; task dynamics. Problems in the physiology of activity, prosthetics and robotics are addressed.

5583. Sentence and Discourse Processing

Three credits.

How psychological theories of perception and learning provide insight into language processing at the level of sentence structure and discourse structure.

5600. Research and Practice of Industrial/Organizational Psychology

One credit. Prerequisite: Instructor consent. May be repeated for a total of 12 credits. Students taking this course will be assigned a final grade of S (satisfactory) or U (unsatisfactory).

Current research and practice in industrial/organizational psychology, with intra- and extramural speakers.

5611. Work Motivation

Three credits. Prerequisite: PSYC 5613; instructor consent required.

Major theoretical approaches to work motivation and their implications for the design of work settings and the treatment of workers.

5612. Leadership in the Workplace

Three credits. Prerequisite: PSYC 5613; instructor consent required.

Theoretical and research issues associated with leadership in the workplace. Classical and current theories of leadership, research in leadership development, and evaluation of various leadership models.

5613. Organizational Psychology

Three credits. Prerequisite: Open only to doctoral students in the Industrial and Organizational Psychology concentration, others with consent.

Major research lines in organizational behavior (work motivation, leadership, work attitudes, job design, turnover, absenteeism), with attention to emerging areas (e.g., women in management). Emphasis on research methods and analytic strategies.

5614. Personnel Psychology

Three credits. Prerequisite: Open only to doctoral students in the Industrial and Organizational Psychology concentration, others with consent.

Techniques of personnel psychology: recruitment, selection, placement, evaluation, training, development, and related areas.

5615. Human Factors

Three credits. Prerequisite: Open only to doctoral students in the Industrial and Organizational Psychology concentration, others with consent.

Theories of design and analysis of man-machine systems in an industrial/organizational context. Special emphasis on the human as an information-processing sub-system operating with other people and machines in complex systems. Application of psychological principles to design of industrial workplaces, military systems, and consumer products; and to the design of simulation systems for training.

5616. Human Judgment and Decision Process

Three credits. Prerequisite: Open only to doctoral students in the Industrial and Organizational Psychology concentration, others with consent.

Examination of social judgment methodology, judgmental heuristics and biases, process tracing, bootstrapping, behavioral decision theory, and multi-attribute utility measurement.

5617. Occupational Health and Safety

Three credits. Prerequisite: PSYC 5615; instructor consent required.

Research methods, theories and findings related to the impact of work duties and environmental conditions on occupational safety and health.

5618. Selection and Placement

Three credits. Prerequisite: PSYC 5614; instructor consent required.

Theory and research on employee selection and placement. Selection models, employee testing, statistical methods in selection and placement, equal opportunity and EEOC guidelines and related ethical issues.

5619. Performance Appraisal

Three credits. Prerequisite: PSYC 5614.

Methods and issues in performance rating in organizations. Classic studies and current models of performance evaluation are used to explore factors that enhance or hinder the accurate gathering, evaluation, and communication of employee performance information.

5620. Design and Analysis of Human-Machine Systems

Three credits. Prerequisite: PSYC 5615; instructor consent required.

The basis, in theories of perception and learning, for design of complex human-machine systems.

5670. Current Topics in Industrial/Organizational Psychology

Three credits. Prerequisite: Instructor consent. May be repeated for credit.

Selected topics in industrial/organizational psychology are studied with particular attention to current research and theoretical trends. Topics vary by semester.

5671. Special Topics in Industrial/Organizational Psychology

Three credits. May be repeated for a total of 12 credits with a change of topic.

5699. Research Team in Industrial/Organizational Psychology

Variable (1-3) credits. Prerequisite: Open only to Psychological Sciences graduate students; instructor consent required. May be repeated for credit. Students taking this course will be assigned a final grade of S (satisfactory) or U (unsatisfactory).

Planning and execution of both individual and collaborative research projects in industrial/organizational psychology.

5700. Proseminar in Social Psychology

One credit. Prerequisite: Open only to graduate students in the Social Psychology concentration; instructor consent required. May be repeated for a maximum of 10 credits. Students taking this course will be assigned a final grade of S (satisfactory) or U (Unsatisfactory).

Presentations on current research in all areas of social psychology.

5701. Experimental Social Psychology

Three credits. Prerequisite: Instructor consent.

A critical overview of the various laboratory methods and techniques in social psychology.

5702. Field Research Methods

Three credits. Prerequisite: PSYC 5701.

An examination of various methods of field research, focusing on design, analysis, theory, and practical issues.

5703. Advanced Social Psychology

Three credits. Prerequisite: Open only to graduate students in the Social Psychology concentration, others with consent.

An overview of the field of social psychology organized around the major underlying theoretical orientations. Several positions are critically examined along with representative empirical work.

5711. Behavioral and Social Aspects of HIV/AIDS

Three credits. Seminar. Prerequisite: Open to graduate students across all departments and advanced undergraduates with permission.

Comprehensive overview of the global HIV/AIDS epidemic and its behavioral underpinnings, including the consequences of HIV/AIDS epidemics for individuals, families, communities, and societies.

5770. Current Topics in Social Psychology

Three credits. Prerequisite: Instructor consent. May be repeated for a total of 28 credits.

Topics vary by semester. Recent topics have included Professional Development, Health Psychology, Morality, Cross-cultural Psychology, Social Processes of AIDS, Ecological Social Psychology, Stereotypes and Prejudice.

5771. Special Topics in Social Psychology

Three credits. May be repeated for a total of 12 credits with a change of topic.

5799. Research Team in Social Psychology

Variable (1-3) credits. Prerequisite: Instructor consent. May be repeated for a total of 12 credits. Students taking this course will be assigned a final grade of S (satisfactory) or U (unsatisfactory).

Planning and execution of both individual and collaborative research projects in social psychology.

5800. Research in Psychology

Variable (1-6) credits. Prerequiste: Instructor consent. May be repeated for credit.

5801. Independent Study in Psychology

Variable (1-6) credits. Prerequisite: Instructor consent. May be repeated for credit.

6136. Seminar in Quantitative Research Methods

Three credits. Prerequisite: Instructor consent.

Quantitative research culminating in a research methods paper. Intended as the capstone course for the Quantitative Research Methods graduate certificate following completion of other courses in the certificate program.

6141. Practicum in Neuropsychological Assessment

Three credits. Prerequisite: PSYC 5301, 5140, and 5141; instructor consent required. May be repeated for credit.

Field placements in clinical neuropsychology. Students will be placed in area hospitals, rehabilitation centers, or on campus, where they will perform neuropsychological evaluations under supervision and attend clinical rounds and team meetings.

6300. Clerkship in Clinical Methodology

Variable (1-6) credits. May be repeated for credit. Students taking this course will be assigned a final grade of S (satisfactory) or U (unsatisfactory).

Supervised clinical training in a community facility.

6301. Practicum in Adult Psychotherapy

Variable (1-3) credits. Prerequisite: Open only to graduate students in the Clinical Psychology concentration, others with consent. May be repeated for a maximum of 12 credits. Students taking this course will be assigned a final grade of S (satisfactory).

Supervised psychotherapy training with adults including diagnostic procedures.

6302. Practicum in Child Psychotherapy

Variable (1-3) credits. Prerequisite: Open only to graduate students in the Clinical Psychology concentration, others with consent. May be repeated for a maximum of 12 credits. Students taking this course will be assigned a final grade of S (satisfactory).

Supervised psychotherapy training with children and parents including diagnostic procedures.

6303. Didactics of Supervision and Consultation

Three credits. Prerequisite: PSYC 5301, 5304, 6301, and 6302; open only to graduate students in the Clinical Psychology concentration. May be repeated once for credit.

Exposure to theories, models, and empirical data pertinent to providing quality supervision of the psychodiagnostic and psychotherapeutic activities of mental health professionals.

6304. Practicum in Clinical Supervision

Three credits. Prerequisite: PSYC 5301, 5304, 6301, and 6302; open only to graduate students in the Clinical Psychology concentration. May be repeated for a maximum of 12 credits.

Supervised training in supervising psycho-diagnostic and psychotherapeutic activities of less advanced clinical psychology students.

6310. Internship in Clinical Psychology

Zero credits. Prerequisite: Instructor consent.

Students assume professional psychological assessment, psychotherapeutic, and consultation responsibilities under the direct supervision of licensed clinical psychologists.

6505. Teaching Experimental Psychology

Three credits.

The lecture method applied to teaching undergraduate courses in experimental psychology (introductory, cognition, learning and memory, sensation and perception) and giving conference presentations. Attention is given to presentation style and content.

6732. Attitude Organization and Change

Three credits. Prerequisite: Open only to Psychological Sciences graduate students, others with consent.

An overview of the field of attitude theory and research focusing on problems of attitude formation, attitude organization, and attitude change.

6733. Social Cognition

Three credits.

Study of causal attribution, stereotyping, evaluating, judgement and decision-making, persuasion, expectancies, memory, attention as they pertain to social life.

6750. The Social Psychology of Stigma

Three credits. Prerequisite: Instructor consent.

Classic and current theories and research on stigma are covered. General stigma processes as well as group-specific (e.g., race, gender, mental illness) issues will be discussed.

6771. Intergroup Relations

Three credits.

Marxism, social identity theory, realistic group conflict theory, elite theory, equity theory, relative deprivation, authoritarian personality, social dominance theory and evolutionary theory as it pertains to intergroup and gender relations.

6782. Cross-Cultural Psychology

Three credits. Prerequisite: Instructor consent.

Cultural issues in human behavior and thought including topics on self, emotion, language, work, society, relationships, and health.

6783. Tools to Analyze Language

Three credits. Prerequisite: Instructor consent.

Focus on the applied use of text analysis tools to analyze the links between natural language and psychological processes.