

# Psychology (PSYC)

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## Courses

### ***PSYC 5501 Theories of Personality: 3 semester hours.***

Study of the main theories of personality from both historical and contemporary perspectives, including trait theory, biological, psychoanalytic, humanistic, cross-cultural, behavioral, and social learning. Emphasis will be given to applying theories with the goal of understanding personality and predicting behavior. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

### ***PSYC 5502 Teaching of Psychology: 1-2 semester hours.***

Prepare students to teach independently. Pedagogy, use of technology, and problem solving skills related to teaching psychology courses will be discussed. Supervised teaching will be treated as a separate module. Repeatable up to 4 credits. Graded S/U.

### ***PSYC 5504 Sensation and Perception: 4 semester hours.***

The anatomical and physiological basis of sensation will be reviewed. Moreover, traditional and contemporary theories of perception will be critically considered. Students will be expected to do laboratory work illustrating basic concepts of sensory and perceptual function. PREREQ: PSYC 4431 or PSYC 4446.

### ***PSYC 5508 Science Pseudoscience and Psychology: 3 semester hours.***

Designed to teach scientific thinking and how to critically evaluate fringe-science, paranormal, and other unproven claims. The psychological processes underlying pseudo-scientific thinking and beliefs also are introduced.

### ***PSYC 5512 Ethical and Professional Issues in Psychology: 2 semester hours.***

An introduction to ethical and professional standards in the field of psychology including a historic and contemporary framework. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

### ***PSYC 5517 Interdisciplinary Evaluation Team: 1 semester hour.***

Introduction to the principles and techniques associated with interdisciplinary evaluation. Disciplines emphasized: Audiology, Nursing, Physical Therapy, Psychology, Social Work, Special Education, Speech-Language Pathology. Equivalent to CSD 5517, DHS 5517, NURS 5517, and SOWK 5517.

### ***PSYC 5530 Food & Behavior: 3 semester hours.***

Introduction to different levels of analysis that are involved in eating and food-related behaviors. First, the brain and periphery's role in the regulation of food-seeking and appetite is reviewed. Second, the role of environment in food choices and selection is characterized. Finally, the role of culture and policy in food consumption patterns is examined. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

### ***PSYC 5531 Behavioral Neuroscience I: 3 semester hours.***

Introduction to behavioral neuroscience with an emphasis on the relation between the central nervous system and behavior. Topics include: basic neuroanatomy, neurophysiology, hormones, sensory systems, motor systems, learning, memory, homeostatic regulation, and evolution. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

### ***PSYC 5532 Behavioral Neuroscience II: 3 semester hours.***

Critical evaluation of contemporary research in behavioral neuroscience. Emphasizes current research and theories concerning neural mechanisms of behavior. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: PSYC 5531 or permission of instructor.

### ***PSYC 5535 Animal Behavior: 3 semester hours.***

Study of experiments in animal learning that have thrown light upon the problem of understanding human learning. Course is concerned with both observation and experimental studies of habit formation, conditioning, related endocrinology, and nerve structure as they are associated with behavior capabilities. PREREQ: Six hours of psychology beyond PSYC 1101.

### ***PSYC 5537 Cognitive Neuroscience: 3 semester hours.***

Examines the neural underpinnings that support cognitive processes. Topics include the history of the field, neuroscience methods (e.g. brain scanning), executive function, memory, perception, as well as brain organization. We also consider what can be learned about the brain bases of cognition via patients with neurological disease, neuropsychological injury, and the aging brain.

### ***PSYC 5539 Social Neuroscience: 3 semester hours.***

Introduction to social neuroscience, focusing on biological aspects of behavior/social processes and vice versa. Topics include basic neuroanatomy, methodology, affect, motivation, interpersonal relationships, social cognition, person perception, and health. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

### ***PSYC 5545 Learning and Behavior: 3 semester hours.***

Survey of the major principles of learning, including the processes underlying operant and classical conditioning. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

### ***PSYC 5563 Forensic and Legal Psychology: 3 semester hours.***

An introduction to the broad field of psychology and law. The course debunks myths such as psychological profiling and lie detection; introduces concepts like death-qualified juries, violence risk prediction, and quid pro quo sexual harassment; highlights insights derived from the psychological sciences in areas such as eyewitness testimony, recovered memories, and biased decision making; and discusses federal and state

### ***PSYC 5565 Behavioral Medicine: 3 semester hours.***

Psychological issues of health, disease states, and prevention. Critical evaluation of clinical research and practice including nontraditional healing techniques and current models used to understand health and disease.

### ***PSYC 5567 Topics in Psychology: 1-6 semester hours.***

Selected topics in psychology. Contents vary. May be repeated with different content and departmental approval for a total of 6 credits.

### ***PSYC 5570 Advanced Topics in Learning: 3 semester hours.***

In-depth study of the major theories, principles, and research in learning. Areas of emphasis include the experimental analysis of behavior, stimulus control, schedules of reinforcement, aversive control, and the quantitative analysis of behavior. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: PSYC 4445 or PSYC 5545 or permission of instructor.

### ***PSYC 5583 Research Experience: 1-3 semester hours.***

Research or readings in a special area of interest to be arranged on an individual basis with individual faculty. May be repeated to a maximum of 12 credits. PREREQ: Permission of Instructor.

### ***PSYC 5599 Experimental Course: 1-6 semester hours.***

The content of this course is not described in the catalog. Title and number of credits are announced in the Class Schedule. Experimental courses may be offered no more than three times with the same title and content. May be repeated.

**PSYC 6620 Psychodiagnostics I: 3 semester hours.**

Theory, measurement development, and current use and limitations of major tests of intelligence, academic achievement, development, and neurological function. Practice in test administration is included.

**PSYC 6621 Psychodiagnostics II: 3 semester hours.**

Theory, measurement development, and current use and limitations of major tests of personality, both objective and projective, with an emphasis on classification decisions. Practice in test administration is included.

**PSYC 6623 Advanced Psychological Measurements: 3 semester hours.**

Psychological measurement theory, the mathematical basis of reliability and validity constructs, and test construction strategies are introduced. Measurement principles are then generalized across response modes and methods, focusing on direct observation technologies.

**PSYC 6627 Statistics and Research Design I: 3 semester hours.**

Critical review of the theory and the methods used to evaluate the outcome of empirical research in the life and social sciences. Chi square, correlation, regression, analysis of variance designs are considered and related to the theoretical distributions basic to statistical inference. PREREQ: Psychology Graduate Student.

**PSYC 6632 Statistics and Research Design II: 3 semester hours.**

Basic assumptions in the philosophy of scientific investigation, principles of design and analysis of experiments, including tests of significance and factorial designs, and reporting of research, in which the student is required to prepare reports of his/her own work as if for publication. PREREQ: Psychology Graduate Student.

**PSYC 6634 Cultural Diversity and Individual Differences: 3 semester hours.**

Critical evaluation of scholarship on and social representations of cultural diversity and individual differences. Review of current theory, research, assessment, and intervention practices with diverse populations.

**PSYC 6636 Neuropsychological Assessment: 3 semester hours.**

Introduction to the selection, administration, scoring, and interpretation of commonly used neuropsychological tests, including tests of conceptual, perceptual, and linguistic ability. PREREQ: PSYC 6620 and PSYC 6621.

**PSYC 6637 Multivariate Statistics and Research Design: 3 semester hours.**

Continuation of research principles in design and analysis, emphasizing the use of multiple dependent variables, strategies for investigating latent variables, and testing complex causal models.

**PSYC 6641 Research Experience and Writing: 1-3 semester hours.**

The individual works under faculty guidance. The student will pursue original research in some area of psychology of particular interest to him or her and write a report of his or her work in a form suitable for publication. Repeatable up to 12 credits. PREREQ: Permission of instructor.

**PSYC 6642 Cognitive Psychology: 3 semester hours.**

Examines cognitive processes underlying perception, attention, mental imagery, memory, language, and problem solving/decision making. Cognitive development and individual differences are discussed. Both theory and experimental findings are emphasized in each area.

**PSYC 6643 Advanced Social Psychology: 3 semester hours.**

Review of current research and major theories of social psychology. Areas of emphasis include attitude, persuasion, prejudice and stereotyping, attraction, aggression, helping, and social cognition.

**PSYC 6644 Advanced Developmental Psychology: 3 semester hours.**

Study of developmental theories, issues, and research across the lifespan. Emphasis is on current empirical research, highlighting the interaction of biological, cognitive, and social domains of development within and between individuals.

**PSYC 6645 Adult Psychopathology and Treatment I: 3 semester hours.**

Exposure to fundamental issues in etiology and assessment of adult psychopathology, including advancements in diagnostic classification, focusing on Axis I disorders such as anxiety and mood disorders. Empirically supported treatment methods are emphasized.

**PSYC 6646 Adult Psychopathology and Treatment II: 3 semester hours.**

Continued review of theories and forms of adult psychopathology, diagnostic categories, and models of treatment. Empirically supported treatment models that consider the therapeutic process, therapeutic relationship, and sociocultural context are emphasized. PREREQ: PSYC 6645 or permission of instructor.

**PSYC 6647 Advanced Personality: 3 semester hours.**

This course will explore contemporary personality theory, as well as significant areas and trends in the current empirical literature.

**PSYC 6649 Child Psychopathology and Treatment I: 3 semester hours.**

Exposure to fundamental issues in evidence-based etiology, assessment, diagnosis, and treatment of child and adolescent psychopathology, with a focus on attention-deficit/hyperactivity, oppositional defiant, conduct, anxiety, mood, and trauma disorders.

**PSYC 6650 Thesis: 1-6 semester hours.**

Thesis. May be repeated. Graded S/U.

**PSYC 6659 Child Treatment II: 3 semester hours.**

Continued review of fundamental issues in evidence-based etiology, assessment, diagnosis, and treatment of child and adolescent psychopathology, with a focus on obsessive compulsive, developmental, substance use, self-injurious, elimination, and eating/feeding disorders.

**PSYC 6671 Professional Development and Writing: 3 semester hours.**

This course orients students to the job market and focuses on the development and improvement of professional skills (e.g., time management) and writing skills (e.g., cover letters, manuscripts, grant proposals, statements.)

**PSYC 6672 History and Systems: 3 semester hours.**

Survey of historical and philosophical bases of theories of psychology presently used. Emphasis on understanding impact of political, cultural, and historical forces on ideas and methods used in psychology. PREREQ: Passage of qualifying examination.

**PSYC 6699 Experimental Course: 1-6 semester hours.**

The content of this course is not described in the catalog. Title and number of credits are announced in the Class Schedule. Experimental courses may be offered no more than three times with the same title and content. May be repeated.

**PSYC 7701 Clinical Psychology: 2 semester hours.**

Orientation to professional training, evaluation, diagnosis, and treatment. Orientation to the ISU Psychology Clinic procedures and report writing requirements. Introduction to clinical interviewing, crisis management, supervision, and consultation.

**PSYC 7702 Psychopharmacology: 2 semester hours.**

Students will learn about the basic science of Psychopharmacology, including principles of drug action, behavioral mechanisms, and the importance of pre-clinical studies. In addition, students will learn to critically evaluate randomized clinical trials studies. This class meets the American

**PSYC 7703 Advanced Ethics and Professional Issues: 1 semester hour.**

Systematic review of ethical decision-making emphasizing analysis of complex ethical issues. Professional topics include supervision, post-doctoral training, licensure, management of high-risk patients, self-care, and emerging models of behavioral health consultation. PREREQ: PSYC 5512.

***PSYC 7704 Supervision and Consultation in Clinical Psychology: 3 semester hours.***

Introduction to theories and processes associated with supervision and consultation in the context of clinical psychology. PREREQ: PSYC 7701

***PSYC 7724 Community Practicum: 1-2 semester hours.***

Students work in public or private mental health agencies under qualified supervisors. Professional activities include evaluation and therapy. Six hours per week per credit. May be repeated. PREREQ: Approval of Clinical Training Committee.

***PSYC 7725 Psychology Clinic Practicum: 1-2 semester hours.***

Students are supervised in the evaluation and treatment of clients served by the Psychology Department Clinic. Six hours per week per credit. May be repeated. PREREQ: Approval of Clinical Training Committee.

***PSYC 7726 Supervision Practicum: 1-2 semester hours.***

Guided supervisory experiences with junior colleagues in the ISU Psychology Clinic. Graded S/U. May be repeated. PREREQ: Approval of Clinical Training Committee.

***PSYC 7727 Psycho-Educational Evaluations: 1 semester hour.***

Interviewing, test selection, test administration, case conceptualization, report writing, and interpretation skills are performed under supervision. May be repeated. PREREQ: Approval of Clinical Training Committee.

***PSYC 7736 Clinical Proseminar: 1-3 semester hours.***

Specific areas of psychopathology, assessment, diagnosis, intervention, and/or associated theoretical models are reviewed in a seminar format with subject matter experts. May be repeated with different content.

***PSYC 7748 Clinical Externship: 1 semester hour.***

Clinical practice in regional human service agency. Minimum 10 hours per week; 1 hour supervision by Ph.D. psychologist per 20 contact hours. Repeatable up to 12 credits. Graded S/U. PREREQ: Approval of Clinical Training Committee.

***PSYC 7749 Clinical Internship: 1 semester hour.***

Predoctoral internship, 11-12 months, at a member site of the Association of Psychology Postdoctoral and Internship Centers, or comparable supervised clinical practice approved by the Clinical Training Committee. Repeatable up to 3 credits. Graded S/ U. PREREQ: Approval of Clinical Training Committee.

***PSYC 8850 Dissertation: 1-12 semester hours.***

Research, analysis, and writing of a doctoral dissertation. Variable credits. Graded S/U. May be repeated. PREREQ: Permission of instructor.