

Psychology

Undergraduate Study

For college-level requirements in undergraduate curricula leading to the degrees of bachelor of arts and bachelor of science, see Liberal Arts and Sciences, Curriculum.

An undergraduate major in psychology may be taken as liberal arts education, as preparation for graduate study in psychology, or as background for professional education in law and in the health professions. A student with a bachelor's degree in psychology may qualify for a variety of positions including those in social sciences, mental health, corrections, rehabilitation, developmental disability centers, business, management, and public opinion surveying. Depending on professional goals, a minor in another discipline may be desirable. Students should consult with their academic advisers early in their undergraduate curriculum. The requirements of the program enable graduates to understand and apply the scientific principles, facts, and basic methods of psychology in their personal and professional activities. Graduates will demonstrate an understanding of the scientific method and will be able to apply that understanding to the study of human behavior and the study of mental processes. They will also demonstrate the ability to effectively communicate their knowledge of psychological concepts through both writing and speech. Graduates will demonstrate a respect for individual and cultural differences and for the ethical issues that relate to the practice of psychology in both research and clinical settings. Professional work with a job title of psychologist in academic, business, clinical, government, and school settings requires graduate degrees.

The major must include the following psychology courses each with a minimum grade of C- and an overall average of C or better:

PSYCH 101	Introduction to Psychology *	3
PSYCH 102	Laboratory in Introductory Psychology *	1
PSYCH 111	Orientation to Psychology	0.5
PSYCH 301	Research Design and Methodology *	3
PSYCH 440	Psychological Measurement I *	3

The major also must include at least one course from four of the following six areas:

Area A

PSYCH 230	Developmental Psychology
PSYCH 335	Abnormal Psychology of Children and Adolescents

Area B

PSYCH 280	Social Psychology
PSYCH 380	Social Cognition

Area C

PSYCH 310	Brain and Behavior
PSYCH 315	Drugs and Behavior

Area D

PSYCH 312	Sensation and Perception
PSYCH 313	Learning and Memory
PSYCH 316	Cognitive Psychology
PSYCH 318	Thinking and Decision Making

Area E

PSYCH 360	Personality Psychology
PSYCH 460	Abnormal Psychology

Area F

PSYCH 250	Psychology of the Workplace
PSYCH 350	Human Factors in Technology

Three additional 3-credit courses in psychology 9

Three additional 3-credit courses in psychology must be taken. Area courses may be used to meet this requirement, but variable credit courses (PSYCH 291, PSYCH 470, PSYCH 490, PSYCH 491, and PSYCH 492) may not.

In accordance with college requirements, a C or better average is required in the courses used to satisfy the major.

Departmental requirements for the B.A. and B.S. include the following supporting courses:

6 credits in Philosophy including	6
PHIL 201 Introduction to Philosophy (not 207)	3
Two of the following	
BIOL 101 Introductory Biology (or higher)	
BIOL 155 Human Biology (or 255 or 256)	
CHEM 163 College Chemistry (or higher)	
GEN 260 Human Heredity and Society	
BIOL 258 Human Reproduction	
STAT 101 Principles of Statistics (or higher) *	4
MATH 104 Introduction to Probability and Matrices (or 150 or higher) **	3

* minimum grade of C-

** excluding MATH 105 Introduction to Mathematical Ideas

Students electing a B.S. degree also must complete PSYCH 302 Research Methods in Psychology with a minimum grade of C- and a minimum of 10 additional supporting credits in supporting courses from the list of courses in the LAS Gen Ed Natural Sciences and Mathematical Disciplines Area (or approved departmental list) as follows: three credits in mathematics, six credits in natural sciences, and one additional credit in a laboratory course.

Students electing a B.A. degree also must complete an ISU approved minor.

The department offers a minor in psychology. The minor requires completing 18 credits in psychology, including PSYCH 101 Introduction to Psychology and PSYCH 301 Research Design and Methodology, each with a minimum grade of C-. At least 9 of the 18 credits must be in 300 level courses (or above), but no more than three credits total may be from PSYCH 291 Introductory Research Experience, PSYCH 490 Independent Study, PSYCH 491 Research Practicum, and PSYCH 492 Fieldwork Practicum. A C- or better is required in each course used to satisfy the minor and a C average or better is required in courses used to satisfy the minor. Contact the psychology advising office for more information.

Communication Proficiency requirement

The department requires a grade of:

C or better in:

ENGL 150	Critical Thinking and Communication	3
ENGL 250	Written, Oral, Visual, and Electronic Composition	3
or ENGL 250H	Written, Oral, Visual, and Electronic Composition: Honors	

C- or better in one of the following:

PSYCH 302	Research Methods in Psychology	3
ENGL 302	Business Communication	3
ENGL 309	Report and Proposal Writing	3
ENGL 314	Technical Communication	3

Four Year Plan

Freshman	Credits	Spring	Credits
Fall			
PSYCH 101 *	3	Psych Choice ^	3
PSYCH 102 *		1 Social Sciences Choice ^	3
PSYCH 111		0.5 Required Natural Science ^	3
ENGL 150		3 Arts & Humanities Choice ^	3
LIB 160		1 Electives	3
Soc Sci Choice ^		3	
Required Math ^		3	
	14.5		15
Sophomore			
Fall			
ENGL 250		3 Psychology Choice ^	3
Psychology Choice ^		3 Psychology Choice ^	3
Arts & Humanities Choice ^		3 STAT 101 *	4

PHIL 201	3 Required Natural Science [^]	3
Required Natural Science [^]	3 Electives	3
Required Natural Science Laboratory [^]	1	
	16	16
Junior		
Fall		
PSYCH 301	3 PSYCH 302 [*]	3
Psychology Choice [^]	3 Required Math [^]	3
Foreign Language or Elective	3-4 Required Natural Science [^]	3
Philosophy Choice [^]	3 Foreign Language/ Elective	3-4
Electives	3 Electives	3
	15-16	15-16
Senior		
Fall		
PSYCH 440	3 Psychology Choice [^]	3
Psychology Choice [^]	3 Electives	13
Electives	9	
	15	16

Total Credits: 122.5-124.5

[^] Choose from approved departmental list

PSYCH 111. Orientation to Psychology.

Cr. 0.5. F.S.

Program requirements and degree/career options. Required of psychology majors. Offered on a satisfactory-fail basis only.

PSYCH 112. Psychology Learning Community Seminar.

(1-0) Cr. 1. Repeatable, maximum of 2 credits. F.S. *Prereq: Participation in Freshman Learning Community*

Topics include orientation to academic program requirements, career awareness, strategies for successful transition to college, connections with other disciplines, and applying psychology via service learning opportunities. Offered on a satisfactory-fail basis only.

PSYCH 131. Academic Learning Skills.

(0-2) Cr. 1. F.S.

Efficient methods of study and reading. Offered on a satisfactory-fail basis only.

PSYCH 132. Motivation and Academic Learning Skills.

(0-2) Cr. 1. Repeatable. F.S. *Prereq: PSYCH 131*

Continued development of academic learning skills with an emphasis on motivation and application of learning strategies. Satisfactory-fail only. Offered on a satisfactory-fail basis only.

PSYCH 230. Developmental Psychology.

(3-0) Cr. 3. F.S.SS.

Life-span development of physical traits, cognition, intelligence, language, social and emotional behavior, personality, and adjustment.

PSYCH 250. Psychology of the Workplace.

(3-0) Cr. 3.

Survey of theories and research methods of psychology applied to the workplace. Consideration of employee selection, training, performance evaluation, leadership, work groups, employee motivation, job attitudes and behaviors, organizational culture, organizational development, human factors, and job design from the scientist-practitioner approach.

PSYCH 280. Social Psychology.

(3-0) Cr. 3. F.S.SS.

Individual human behavior in social contexts. Emphasis on social judgments and decisions, attitudes, perceptions of others, social influence, aggression, stereotypes, and helping.

PSYCH 291. Introductory Research Experience.

Cr. 1-4. Repeatable, maximum of 4 credits. F.S. *Prereq: PSYCH 101, sophomore classification, and permission of instructor.*

Beginning level supervised research experience in a faculty laboratory. Offered on a satisfactory-fail basis only.

PSYCH 301. Research Design and Methodology.

(3-0) Cr. 3. F.S.SS. *Prereq: STAT 101; 1 course in psychology*

Overview of the principal research techniques used in psychology with an emphasis on the statistical analysis of psychological data.

PSYCH 302. Research Methods in Psychology.

(2-2) Cr. 3. F.S. *Prereq: PSYCH 301, ENGL 250*

Discussion of and experience in designing research studies, collecting and analyzing data, and preparing research reports in psychology.

PSYCH 310. Brain and Behavior.

(3-0) Cr. 3. F.S. *Prereq: PSYCH 101*

Survey of basic concepts in the neurosciences with emphasis on brain mechanisms mediating sensory processes, arousal, motivation, learning, and abnormal behavior.

PSYCH 312. Sensation and Perception.

(3-0) Cr. 3. F.S. *Prereq: PSYCH 101*

Survey of the physiology and psychology of human sensory systems including vision, audition, smell, taste, the skin senses, and the vestibular senses.

PSYCH 313. Learning and Memory.

(3-0) Cr. 3. F.S. *Prereq: PSYCH 101*

Survey of fundamental concepts and theories related to learning and memory derived from human and animal research.

PSYCH 314. Motivation.

(3-0) Cr. 3. F.S. *Prereq: PSYCH 101*

Theory and research on motivation at biological, environmental, and psychological levels. Topics include emotion, eating, sex, music, addictions, incentives, goal performance, personality, coping, self-determination and purpose.

Graduate Study

The department offers work for the degree of doctor of philosophy in psychology. A master of science may be earned as part of that degree.

The department offers a doctoral specialization in counseling psychology (APA accredited) and doctoral areas of concentration in cognitive psychology and social psychology.

A basic goal of graduate study in the Department of Psychology is to provide all students with a broad base of knowledge in psychological science, as well as exposure to the content and methodological skills necessary for effective performance in teaching, research and professional practice. Accordingly, graduates have an extensive knowledge of psychological principles and the conceptual and quantitative skills to conduct psychological research, communicating the results to the scientific community, students in the classroom, and the general public. Graduates in applied programs have specialized knowledge in counseling and program development. They are skilled in delivering such programs and services to diverse clientele in a variety of settings.

The department also participates in the interdepartmental programs in human computer interaction and neuroscience (<http://www.hci.iastate.edu/Academics/index.php>), and in the interdepartmental minor in gerontology (http://www.gerontology.iastate.edu/?expand=graduate_program).

A formal class and a supervised practicum in the teaching of psychology is recommended for all doctoral students whose future plans may include teaching at the college level. A 12-month internship in a training site or agency approved by the faculty is required of all doctoral students in counseling psychology.

Courses primarily for undergraduates:

PSYCH 101. Introduction to Psychology.

(3-0) Cr. 3. F.S.SS.

Fundamental psychological concepts derived from the application of the scientific method to the study of behavior and mental processes. Applications of psychology.

PSYCH 101H. Introduction to Psychology: Honors.

(2-2) Cr. 3. F. *Prereq: Enrollment in the University Honors Program*

Fundamental psychological concepts derived from the application of the scientific method to the study of behavior and mental processes. Applications of psychology.

PSYCH 102. Laboratory in Introductory Psychology.

(0-2) Cr. 1. F.S. *Prereq: Credit or enrollment in PSYCH 101*
Laboratory to accompany 101.

PSYCH 315. Drugs and Behavior.(3-0) Cr. 3. F.S. *Prereq: PSYCH 101*

Effects of drug use, including biological effects of psychoactive substances; impact of drug use on society; and legal responses to drug use, including legal cases and policy initiatives.

PSYCH 316. Cognitive Psychology.(3-0) Cr. 3. F.S. *Prereq: PSYCH 101*

Overview of human cognition, including sensation and perception, attention, memory, education, language, and judgment and decision making.

PSYCH 318. Thinking and Decision Making.(3-0) Cr. 3. F.S. *Prereq: PSYCH 101; STAT 101 or MATH 104 or equivalent*

Understanding human reasoning and decision making, including evaluating evidence, judging probabilities, emotional influences, and social dilemmas, with emphasis on the mechanisms that underlie decision making.

PSYCH 333. Educational Psychology.(Cross-listed with C I). (3-0) Cr. 3. F.S. *Prereq: PSYCH 230 or HD FS 102, application to the teacher education program or major in psychology*

Classroom learning with emphasis on theories of learning and cognition, and instructional techniques. Major emphasis on measurement theory and the classroom assessment of learning outcomes.

PSYCH 335. Abnormal Psychology of Children and Adolescents.(3-0) Cr. 3. F.S. *Prereq: PSYCH 101; PSYCH 230 or HDFS 102*

Psychopathology of children and adolescents, including childhood depression and anxiety disorders. Consideration of multiple probable causes and corresponding therapies.

PSYCH 346. Psychology of Women.(Cross-listed with W S). (3-0) Cr. 3. S. *Prereq: 2 courses in psychology including PSYCH 101*

Survey of theory and research related to major biological, interpersonal, and cultural issues affecting girls' and women's psychological development and behavior.

Meets U.S. Diversity Requirement

PSYCH 347. U.S. Latino/a Psychology.(3-0) Cr. 3. S. *Prereq: Two courses in Psychology including PSYCH 101*

Historical, political, and social contexts of psychological and mental health constructs in terms of their validity and utility for use in Latino/a people in the U.S. Unique aspects of psychological functioning particular to Latino/a peoples in the U.S.

Meets U.S. Diversity Requirement

PSYCH 348. Psychology of Religion.(Cross-listed with RELIG). (3-0) Cr. 3. *Prereq: Nine credits in psychology*

Survey of psychological theory and research investigating religious and spiritual attitudes, beliefs and practices.

PSYCH 350. Human Factors in Technology.(3-0) Cr. 3. F. *Prereq: PSYCH 101; junior classification*

Understanding human behavior and cognition in the context of modern technologies. Focus on emergent interactive technologies, human computer interaction, user centered design, usability analysis, and usability testing.

PSYCH 360. Personality Psychology.(3-0) Cr. 3. F.S.SS. *Prereq: PSYCH 101*

Historical and contemporary theory and research on development and expression of personality with a focus on normal functioning.

PSYCH 380. Social Cognition.(3-0) Cr. 3. *Prereq: PSYCH 101 or PSYCH 280*

How people understand themselves and others, including attribution, social categories and schemas, the self, social inference, stereotypes, and prejudice.

PSYCH 381. Social Psychology of Small Group Behavior.(Cross-listed with SOC). (3-0) Cr. 3. S. *Prereq: SOC 305 or PSYCH 280*

A survey of small group theory and research from an interdisciplinary, social psychological perspective.

PSYCH 383. Psychology and Law.(3-0) Cr. 3. F.S. *Prereq: PSYCH 101 or PSYCH 280*

Survey of topics in the interface between psychology and the legal system including but not limited to theories of crime, policing, eyewitness reliability, jury behavior, competence and insanity, and trial processes.

PSYCH 401. History of Psychology.(3-0) Cr. 3. F.S. *Prereq: 4 courses in psychology*

Philosophy and science backgrounds of psychology. Development of theories and causes of events in academic and applied psychology. Nonmajor graduate credit.

PSYCH 410. Behavioral Neurology.(3-0) Cr. 3. F. *Prereq: PSYCH 101; PSYCH 310 or equivalent*

Examination of the neuroanatomical foundation of cognition, affect, and action from a neurological perspective. Focus on basic and applied research with neurological patients. Nonmajor graduate credit.

PSYCH 411. Evolutionary Psychology.(3-0) Cr. 3. S. *Prereq: Junior classification, three courses in psychology; one course in biology*

Examination of the application of the principles of evolutionary biology to the understanding of human behavior. Evolutionary perspectives on brain development, cognition, language, mating behavior, sex differences, altruism, artistic behavior, and criminal behavior are explored. Arguments by those critical of the evolutionary approach to psychology are also examined.

PSYCH 413. Psychology of Language.(Cross-listed with LING). (3-0) Cr. 3. *Prereq: PSYCH 101*

Introduction to psycholinguistics. Topics may include origin of language, speech perception, language comprehension, reading, bilingualism, brain bases of language, and computational modeling of language processes. Nonmajor graduate credit.

PSYCH 422. Counseling Theories and Techniques.(3-0) Cr. 3. F. *Prereq: 3 courses in psychology*

Overview of the major counseling theories and techniques, with emphasis on the key concepts of each theory, the role of the counselor, therapeutic goals, and the main techniques derived from each theory. Nonmajor graduate credit.

PSYCH 422L. Laboratory in Counseling Theory and Techniques.(0-2) Cr. 1. F. *Prereq: Three classes in psychology and credit or enrollment in PSYCH 422.*

Learn basic counseling skills such as active listening, reflecting feelings, empathy, confrontation, immediacy and self-disclosure. Supervised practice using basic counseling skills.

PSYCH 440. Psychological Measurement I.(2-2) Cr. 3. F.S.SS. *Prereq: PSYCH 301 and 9 credits in psychology, STAT 101*

Principles of psychological measurement, including concepts of reliability and validity; interpretation of scores; factors influencing performance; construction and use of measures of ability, achievement, and personality. Nonmajor graduate credit.

PSYCH 450. Industrial Psychology.(3-0) Cr. 3. F.S. *Prereq: 2 courses in psychology including PSYCH 101, STAT 101*

Theory, content and methods of industrial psychology related to the effective operation of organizations. Application of psychology principles to topics including different approaches used to select employees, how to conduct performance appraisals, and how to train and keep employees safe. Work attitudes and behaviors of employees as well as relevant legal issues. Statistics including regression and correlation are used. Nonmajor graduate credit.

PSYCH 460. Abnormal Psychology.(3-0) Cr. 3. F.S.SS. *Prereq: 3 courses in psychology including PSYCH 101*

Description of major forms of maladaptation including anxiety, mood disorders, personality disorders, substance dependence, and schizophrenia. Factors in the development of behavior deviations. Research pertinent to the description, development, and maintenance of abnormal behavior. Nonmajor graduate credit.

PSYCH 470. Seminar in Psychology.(1-0) Cr. 1-3. Repeatable. *Prereq: 12 credits in psychology*

Current topics in psychological research and practice in the following areas.

PSYCH 470A. Seminar in Psychology: Counseling.(1-0) Cr. 1-3. Repeatable. *Prereq: 12 credits in psychology***PSYCH 470B. Seminar in Psychology: Experimental.**(1-0) Cr. 1-3. Repeatable. *Prereq: 12 credits in psychology***PSYCH 470C. Seminar in Psychology: Individual Differences.**(1-0) Cr. 1-3. Repeatable. *Prereq: 12 credits in psychology***PSYCH 470D. Seminar in Psychology: Social.**(1-0) Cr. 1-3. Repeatable. *Prereq: 12 credits in psychology***PSYCH 484. Psychology of Close Relationships.**(3-0) Cr. 3. *Prereq: 9 credits in psychology including PSYCH 280*

Theories and research concerning the functions, development, and deterioration of close relationships. Influence of psychological processes on friendship, romantic, marital, and family relationships. Topics include mate selection, interdependence, trust and commitment, power and dominance in relationships, sexuality, divorce, gender roles, and family interaction. Nonmajor graduate credit.

PSYCH 485. Health Psychology.

(3-0) Cr. 3. F. Prereq: Junior classification, 6 credits in psychology
Application of psychological theory and research methods to issues in physical health. Psychological factors in illness prevention, health maintenance, treatment of illness, recovery from injury and illness, and adjustment to chronic illness.

PSYCH 487. Human Aggression.

(3-0) Cr. 3. S. Prereq: PSYCH 230, PSYCH 301; PSYCH 313, PSYCH 316, or PSYCH 380

Theory and research on development and occurrence of human aggression; implications for prevention and treatment.

PSYCH 488. Cultural Psychology.

(3-0) Cr. 3. Prereq: PSYCH 280 and PSYCH 301; junior classification
Examination of the ways that cultural beliefs, values, and ideologies shape cognitive, developmental, social and other psychological phenomena. Nonmajor graduate credit.

Meets International Perspectives Requirement.

PSYCH 490. Independent Study.

Cr. 1-3. Repeatable, maximum of 9 credits. F.S.SS. Prereq: Junior classification, 6 credits in psychology, and permission of instructor
Supervised reading in an area of psychology. Writing requirement. No more than 9 credits of Psych 490 may be counted toward a degree in psychology.

PSYCH 491. Research Practicum.

Cr. arr. Repeatable, maximum of 9 credits. F.S.SS. Prereq: Junior classification, permission of instructor, and credit or enrollment in PSYCH 301
Supervised research in an area of psychology. Primarily for students intending to pursue graduate education. No more than 9 credits of Psych 491 may be counted toward a degree in psychology.

PSYCH 492. Fieldwork Practicum.

Cr. arr. Repeatable, maximum of 9 credits. F.S.SS. Prereq: Junior classification, 12 credits in psychology, and permission of instructor
Supervised fieldwork in one of the following applied psychology settings. Offered on a satisfactory-fail basis only. No more than 9 credits of Psych 492 may be counted toward a degree in psychology.

PSYCH 492A. Fieldwork Practicum: Human Services.

Cr. arr. Repeatable, maximum of 9 credits. F.S.SS. Prereq: Junior classification, 12 credits in psychology and permission of instructor

PSYCH 492B. Fieldwork Practicum: I/O Psychology.

Cr. arr. Repeatable, maximum of 9 credits. F.S.SS. Prereq: Junior classification, 12 credits in psychology, credit or enrollment in PSYCH 450.

Courses primarily for graduate students, open to qualified undergraduates:**PSYCH 501. Foundations of Behavioral Research.**

(3-0) Cr. 3. F.S. Prereq: STAT 401 or equivalent
Ethical issues, research design, sampling design, measurement issues, power and precision analysis, interpretation of statistical results in non-experimental, quasi-experimental, and experimental research, use of statistical packages.

PSYCH 508. Research Methods in Applied Psychology.

(3-0) Cr. 3. Prereq: PSYCH 440 and PSYCH 501 or STAT 401
Methods and issues in applied psychological research. Role of theory in research, fidelity of measurement, selection of subjects, sampling, ethical issues, experimenter bias, data collection methods, power analysis, and professional standards for writing research articles. Emphasis on research methodological issues, not statistical issues.

PSYCH 516. Advanced Cognition.

(3-0) Cr. 3. F.S. Prereq: PSYCH 316
Theoretical models and empirical research in human cognition including perception, attention, memory, concepts/categorization, imagery, and judgment and decision making.

PSYCH 517. Psychopharmacology.

(3-0) Cr. 3. Prereq: PSYCH 310, PSYCH 315, or equivalent and permission of instructor
Fundamentals of drug-behavior interactions with emphasis on psychoactive drugs and their use in experimental, therapeutic, and social settings.

PSYCH 519. Cognitive Neuropsychology.

(3-0) Cr. 3. Prereq: PSYCH 310 and PSYCH 316 or PSYCH 313
Psychological models and related neurological substrates underlying cognition in normal and brain-damaged individuals.

PSYCH 521. Cognitive Psychology of Human Computer Interaction.

(Cross-listed with HCI). (3-0) Cr. 3. Prereq: Graduate classification or instructor approval
Biological, behavioral, perceptual, cognitive and social issues relevant to human computer interactions.

PSYCH 522. Scientific Methods in Human Computer Interaction.

(Cross-listed with HCI). (3-0) Cr. 3. Alt. S., offered 2013. Prereq: PSYCH 521 and STAT 101 or equivalent
Basics of hypothesis testing, experimental design, analysis and interpretation of data, and the ethical principles of human research as they apply to research in human computer interaction.

PSYCH 533. Educational Psychology of Learning, Cognition, and Memory.

(Cross-listed with C I). (3-0) Cr. 3. F.
Learning, and memory in educational/training settings.

PSYCH 538. Developmental Disabilities.

(Cross-listed with HD FS). (3-0) Cr. 3. Alt. F., offered 2013. Prereq: 9 credits in human development and family studies or psychology
Theories, research, and current issues regarding the intersection of development and disabilities. Investigation of interventions with individuals and families. (on-line course offering via Distance Education).

PSYCH 542. Applied Psychological Measurement.

(3-0) Cr. 3. F. Prereq: PSYCH 440
Principles of psychological measurement, including concepts of reliability and validity; interpretation of scores; factors influencing performance; test construction and use of measures of intelligence, ability, achievement, vocational interest, and personality. Ethical and multicultural issues in measurement.

PSYCH 544. Practicum in Assessment.

(2-1) Cr. 2. F.S. Prereq: PSYCH 542 and admission into the PhD program in counseling psychology
Supervised practice in designing and implementing observational systems and in administering, scoring, interpreting, and reporting individual tests.

PSYCH 560. Advanced Personality Psychology.

(3-0) Cr. 3. Prereq: 4 courses in psychology, including PSYCH 360
Advanced analysis of contemporary theory and research on personality measurement, development, heritability, and social expression.

PSYCH 561. Psychopathology and Behavior Deviations.

(3-0) Cr. 3. Prereq: PSYCH 460
Examination of theoretical perspectives and current research pertinent to the major forms of adult dysfunction including: adjustment, anxiety, mood, somatoform, dissociative, sexual and gender identity, personality, schizophrenic, eating, and substance abuse disorders.

PSYCH 562. Personality Assessment.

(3-0) Cr. 3. Prereq: PSYCH 360, PSYCH 440, PSYCH 542, and PSYCH 501 or STAT 401 and admission to the PhD program in counseling psychology
Principles, concepts, and methods of personality assessment. Though not a practicum course, exposure is given to a variety of objective, projective, and situational tests.

PSYCH 580. Advanced Social Psychology: Psychological Perspectives.

(3-0) Cr. 3. Prereq: 4 courses in psychology, including PSYCH 280
Current theories, methods, and research in social psychology with an emphasis on cognitive and interpersonal processes such as attribution, social cognition, attitude change, attraction, aggression, and social comparison.

PSYCH 590. Special Topics.

Cr. arr. Repeatable. Prereq: 12 credits in psychology, and permission of instructor
Guided reading on special topics or individual research projects in the following areas.

PSYCH 590A. Special Topics: Counseling.

Cr. arr. Repeatable. Prereq: 12 credits in psychology, and permission of instructor

PSYCH 590Q. Special Topics: Cognitive.

Cr. arr. Repeatable. Prereq: 12 credits in psychology, and permission of instructor

PSYCH 590R. Special Topics: Social.

Cr. arr. Repeatable. Prereq: 12 credits in psychology, and permission of instructor

PSYCH 590Z. Special Topics: General.

Cr. arr. Repeatable. Prereq: 12 credits in psychology, and permission of instructor

PSYCH 592. Seminar in Psychology.

(1-0) Cr. 1-3. Repeatable. Prereq: 12 hours in psychology or graduate classification.
Seminar in the following areas.

PSYCH 592C. Seminar in Psychology: Developmental.
(1-0) Cr. 1-3. Repeatable. F.S. *Prereq: 12 hours in psychology or graduate classification.*

PSYCH 592P. Seminar in Psychology: Research Methods and Psychometrics.
(1-0) Cr. 1-3. Repeatable. *Prereq: 12 hours in psychology or graduate classification.*

PSYCH 592Z. Seminar in Psychology: General.
(1-0) Cr. 1-3. Repeatable. *Prereq: 12 hours in psychology or graduate classification.*

PSYCH 594. Quantitative Behavioral Methods.
(1-0) Cr. 1. F.S. *Prereq: PSYCH 501 or equivalent*
Specialized quantitative methods for social and behavioral research problems in the following areas.

PSYCH 594A. Quantitative Behavioral Methods: Classical psychometric theory.
(1-0) Cr. 1. F.S. *Prereq: PSYCH 501 or equivalent*

PSYCH 594B. Quantitative Behavioral Methods: Modern psychometric methods.
(1-0) Cr. 1. F.S. *Prereq: PSYCH 501 or equivalent*

PSYCH 594C. Quantitative Behavioral Methods: Construct validation.
(1-0) Cr. 1. F.S. *Prereq: PSYCH 501 or equivalent*

PSYCH 594D. Quantitative Behavioral Methods: Multi-dimensional scaling.
(1-0) Cr. 1. F.S. *Prereq: PSYCH 501 or equivalent*

PSYCH 594E. Quantitative Behavioral Methods: Cluster Analysis.
(1-0) Cr. 1. F.S. *Prereq: PSYCH 501 or equivalent*

PSYCH 594F. Quantitative Behavioral Methods: Meta-analysis.
(1-0) Cr. 1. F.S. *Prereq: PSYCH 501*
Specialized quantitative methods for social and behavioral research problems.

PSYCH 594G. Quantitative Behavioral Methods: Longitudinal analysis.
(1-0) Cr. 1. F.S. *Prereq: PSYCH 501 or equivalent*

PSYCH 594I. Quantitative Behavioral Methods: Focus Groups.
(1-0) Cr. 1. F.S. *Prereq: PSYCH 501 or equivalent*

PSYCH 594J. Quantitative Behavioral Methods: General.
Cr. 1-3. F.S. *Prereq: PSYCH 501 or equivalent*
Offered on a satisfactory-fail basis only.

PSYCH 595. Seminar in Social Psychology.
Cr. 1-3. Repeatable. F.S. *Prereq: 12 credits in Psychology*
Seminar in the following areas in social psychology.

PSYCH 595A. Seminar in Social Psychology: Social Cognition.
Cr. 1-3. Repeatable. F.S. *Prereq: 12 credits in Psychology*
Nonmajor graduate credit.

PSYCH 595B. Seminar in Social Psychology: Aggression.
Cr. 1-3. Repeatable. F.S. *Prereq: 12 credits in Psychology*
Nonmajor graduate credit.

PSYCH 595C. Seminar in Social Psychology: Culture.
Cr. 1-3. Repeatable. F.S. *Prereq: 12 credits in Psychology*
Nonmajor graduate credit.

PSYCH 595D. Seminar in Social Psychology: Attitudes and Attitude Change.
Cr. 1-3. Repeatable. F.S. *Prereq: 12 credits in Psychology*

PSYCH 595E. Seminar in Social Psychology: Psychology and Law.
Cr. 1-3. Repeatable. F.S. *Prereq: 12 credits in Psychology*

PSYCH 595G. Seminar in Social Psychology: Close Relationships.
Cr. 1-3. Repeatable. F.S. *Prereq: 12 credits in Psychology*

PSYCH 595I. Seminar in Social Psychology: General.
Cr. arr. Repeatable. F.S. *Prereq: 12 credits in Psychology*

PSYCH 596. Seminar in Counseling Psychology.
Cr. arr. Repeatable. F.S. *Prereq: 12 credits in Psychology*
Seminar in the following areas in counseling psychology.

PSYCH 596A. Seminar in Counseling Psychology: Supervision.
Cr. arr. Repeatable. F.S. *Prereq: 12 credits in Psychology*

PSYCH 596B. Seminar in Counseling Psychology: Research.
Cr. arr. Repeatable. F.S. *Prereq: 12 credits in Psychology*

PSYCH 596C. Seminar in Counseling Psychology: Multicultural.
Cr. arr. Repeatable. F.S. *Prereq: 12 credits in Psychology*

PSYCH 596D. Seminar in Counseling Psychology: Professional Issues and Ethics.
Cr. arr. Repeatable. F.S. *Prereq: 12 credits in Psychology*

PSYCH 596E. Seminar in Counseling Psychology: General.
Cr. arr. Repeatable. F.S. *Prereq: 12 credits in Psychology*

PSYCH 597. Internship in Psychology.
Cr. R. *Prereq: M.S. degree candidacy; permission of instructor*
Full-time, non-clinical, supervised experience in a setting relevant to psychology. Intended for master's degree level internships.

PSYCH 598. Seminar in Cognitive Psychology.
Cr. arr. Repeatable. F.S. *Prereq: PSYCH 516, PSYCH 501 or STAT 401.*
Seminar in the following areas in cognitive psychology.

PSYCH 598A. Seminar in Cognitive Psychology: Attention and Perception.
Cr. arr. Repeatable. F.S. *Prereq: PSYCH 516, PSYCH 501 or STAT 401*

PSYCH 598B. Seminar in Cognitive Psychology: Memory.
Cr. arr. Repeatable. F.S. *Prereq: PSYCH 516, PSYCH 501 or STAT 401*

PSYCH 598C. Seminar in Cognitive Psychology: Cognitive Neuroscience.
Cr. arr. Repeatable. F.S. *Prereq: PSYCH 516, PSYCH 501 or STAT 401*

PSYCH 598D. Seminar in Cognitive Psychology: Judgment and Decision Making.
Cr. arr. Repeatable. F.S. *Prereq: PSYCH 516, PSYCH 501 or STAT 401*

PSYCH 598E. Seminar in Cognitive Psychology: Evolution.
Cr. arr. Repeatable. F.S. *Prereq: PSYCH 516, PSYCH 501 or STAT 401*

PSYCH 598F. Seminar in Cognitive Psychology: Language.
Cr. arr. Repeatable. F.S. *Prereq: PSYCH 516, PSYCH 501 or STAT 401*

PSYCH 598G. Seminar in Cognitive Psychology: Applied.
Cr. arr. Repeatable. F.S. *Prereq: PSYCH 516, PSYCH 501 or STAT 401*

PSYCH 598I. Seminar in Cognitive Psychology: General.
Cr. arr. Repeatable. F.S. *Prereq: PSYCH 516, PSYCH 501 or STAT 401*

PSYCH 599. Creative Component.
Cr. arr.
Offered on a satisfactory-fail basis only.

Courses for graduate students:

PSYCH 601. History of Philosophy of Psychology.
(3-0) Cr. 3. *Prereq: 4 courses in psychology*
Origins of psychology in philosophical, medical, and related thought. Development as an independent discipline in the nineteenth and twentieth centuries as a science and as a practice including traditional and contemporary theory and philosophy.

PSYCH 605. Multi-level Modeling.
(Cross-listed with HD FS). (3-0) Cr. 3. Alt. F., offered 2013. *Prereq: HD FS 503 and HD FS 505 or STAT 404*
Rationale for and interpretation of random coefficient models. Strategies for the analysis of multi-level and panel data including models for random intercepts, random slopes, and growth curves. Applications including HLM, SAS, PROC MIX, and MPLUS.

PSYCH 621. Psychological Counseling -Theory and Process.
(3-0) Cr. 3. F. *Prereq: 3 courses in psychology or graduate classification*
Overview of major counseling theories with emphases upon: key concepts of theories, the role of the counselor, and applications of theory in fostering client change.

PSYCH 621L. Psychological Counseling -Theory and Process: Techniques in Counseling.
(0-6) Cr. 3. F. *Prereq: permission of instructor required*
Development of basic counseling skills and techniques through observation, role-playing, case studies, and supervised counseling sessions.

PSYCH 623. Vocational Behavior.
(3-0) Cr. 3. *Prereq: 3 courses in psychology or graduate classification*
Theoretical views, research, and issues in career development through the life span. Methods of career counseling, including appraisal interviewing, assessment, test interpretation, and use of information sources.

PSYCH 626. Group Counseling.

(2-2) Cr. 3. *Prereq: Graduate classification*

Theory, research, ethical issues, and therapeutic considerations relevant to group counseling. Participation in lab exercises for development of group counseling skills and observation of ongoing groups.

PSYCH 633. Teaching of Psychology.

(3-0) Cr. 3. *Prereq: Enrollment in doctoral degree program in psychology, completion of at least 1 year of graduate study, permission of instructor*

Orientation to teaching of psychology at college level: academic issues and problems, instructional and evaluative techniques.

PSYCH 691. Practicum in Psychology.

Cr. arr. F.S. *Prereq: Prereq: Permission of instructor*

Supervised practice and experience in the following fields of specialization in applied psychology.

PSYCH 691A. Practicum in Psychology: Counseling (Beginning).

Cr. 1-3. Repeatable, maximum of 6 credits. F.S. *Prereq: PSYCH 621L*

PSYCH 691B. Practicum in Psychology: Counseling (Intermediate).

Cr. 1-3. Repeatable, maximum of 6 credits. F.S. *Prereq: Permission of instructor, PSYCH 691A*

PSYCH 691C. Practicum in Psychology: Counseling (Advanced).

Cr. 1-3. Repeatable, maximum of 6 credits. F.S. *Prereq: Permission of instructor, PSYCH 691A, PSYCH 691B*

PSYCH 691D. Practicum in Psychology: Counseling (Advanced External Practicum).

Cr. 1-3. Repeatable, maximum of 6 credits. F.S. *Prereq: Permission of instructor, PSYCH 691A, PSYCH 691B*

PSYCH 691G. Practicum in Psychology: Group Counseling.

Cr. 1-3. F.S. *Prereq: Prereq: Permission of instructor, PSYCH 626, PSYCH 691A*

PSYCH 691S. Practicum in Psychology: Supervision.

Cr. 1-3. F.S. *Prereq: Permission of instructor, PSYCH 592A, PSYCH 621L*

PSYCH 691T. Practicum in Psychology: Teaching.

Cr. 1-3. Repeatable, maximum of 6 credits. F.S. *Prereq: Permission of instructor, PSYCH 633*

Offered on a satisfactory-fail basis only.

PSYCH 691Z. Practicum in Psychology: General.

Cr. 1-3. Repeatable, maximum of 6 credits. F.S. *Prereq: Permission of instructor*

PSYCH 692. Research Seminar.

(1-0) Cr. 1-3. Repeatable. *Prereq: Permission of instructor*

Research seminar in the following areas.

PSYCH 692A. Research Seminar: Counseling.

(1-0) Cr. 1-3. Repeatable. *Prereq: Permission of instructor*

PSYCH 692Q. Research Seminar: Cognitive.

(1-0) Cr. 1-3. Repeatable. *Prereq: Permission of instructor*

PSYCH 692R. Research Seminar: Social.

(1-0) Cr. 1-3. Repeatable. *Prereq: Permission of instructor*

PSYCH 692Z. Research Seminar: General.

(1-0) Cr. 1-3. Repeatable. *Prereq: Permission of instructor*

PSYCH 697. Internship in Counseling Psychology.

Cr. R. *Prereq: Ph.D. candidacy in the Counseling Psychology program, approved dissertation proposal, and permission of instructor*

Full time supervised predoctoral internship experience in a setting relevant to counseling psychology.

PSYCH 699. Research.

Cr. arr. Repeatable.

Offered on a satisfactory-fail basis only.