

Psychology

IN THE COLLEGE OF SCIENCES

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Faculty

Emeritus: Borges, Bryson, Defran, Dunn (SDSU-IV), Fenson, Franzini, Graham, Graf, Hillix, Hornbeck, Kass, Klonoff, Leckart, Lee, Litrownik, Marlin, Marshall, Martin, McCordick, McGivern, Plotnik, Price (Judy), Psomas, Reed, Reilly, Riley, Rodin, Saccuzzo, Sallis, Sattler, Schulte, Scollay, Spinetta

Chair: Gilbert

Professors: Amir, Atkins, Castañeda (SDSU-IV), Cronan, Devos, Friend, Gallo, Gilbert, Hattrup, Holcomb, Malcarne, Matt, Mattson Weller, Müller, Murphy, Price (Joseph), Prislín, Roesch, Sereno, Talavera, Thomas, Twenge, Weersing

Associate Professors: Blashill, Brassler, Conte, Cordero (SDSU-IV), Horvath, Kath, Marinkovic, Marx, Sadler, Thoman, Vaughn, Wells, Yeh

Assistant Professors: Abarbanell (SDSU-IV), Barber, Helm, Kappenman, Villodas, Wiggins

Lecturers: Laumakis, Turner

Offered by the Department

Doctor of Philosophy degree in clinical psychology.

Master of Arts degree in psychology.

Master of Science degree in psychology.
Major in psychology with the B.A. degree
in applied arts and sciences.

Major in psychology with the B.A. degree
in liberal arts and sciences.

Emphasis in industrial and organizational psychology.

Minor in psychology.

Certificate in industrial/organizational psychology.

The Major

What is psychology? Psychology is the scientific discipline that studies human behavior and mental processes: how human beings develop, learn, think and feel. Psychologists study the relative influences of heredity and experience throughout the life span in a wide variety of environments, including the laboratory, home, school, workplace, jury room, hospital and hospice. Faculty of the Department of Psychology at SDSU focus on a number of areas of psychology. Among these are:

- the effects of prenatal environments, including the influence of hormones and drugs on brain development and later functioning,
- the effects of childhood experience on social-emotional and cognitive development,
- the functioning of adults and the elderly in response to biological and environmental challenges,
- the normal processes of learning, memory and cognition,
- the effectiveness of behavioral and cognitive intervention procedures for enhancing physical and mental well-being.

What do psychology graduates do? The majority of students who graduate with a B.A. in psychology enter the job market and find employment in a broad range of settings, including business, state and local government agencies, and health-care services. Because the B.A. in psychology provides a liberal arts education as opposed to technical training, psychology majors will need to acquire job-specific experience or expect additional on-the-job training.

Does the B.A. in psychology prepare students for graduate work in applied areas? Students who have maintained strong academic records in psychology often enter masters degree programs in counseling: Clinical Social Work; Marriage, Family and Child Counseling; and School Psychology. Others pursue graduate work in a number of related fields including Program Evaluation,

Industrial and Organizational Psychology, Public Health, Social Ecology, Education, Criminal Justice, Law, Administrative Social Work, Human Resource Development, and Medicine.

What is the Ph.D. in psychology? Graduate work which leads to the Ph.D. trains one to be a scientific psychologist, to study human behavior and mental processes, and to teach at the university level. The Ph.D. in clinical psychology also includes supervised training in clinical practice. The time commitment for earning a Ph.D. degree is considerable, and these programs are highly competitive. Only a small percentage of psychology graduates will in fact go on to earn the Ph.D. in psychology.

Impacted Program

The psychology major is an impacted program. To be admitted to the psychology major, students must meet the following criteria:

- a. Complete with a grade of C (2.0) or better: Psychology 101, 201, 211, 230, 260, 280, and Biology 100 (or Biology 203). With the exception of Psychology 201, these courses cannot be taken for credit/no credit (Cr/NC). The minimum grade in each class is C (2.0) or better. **NOTE:** Psychology majors may use Psychology 280 to satisfy Mathematics/Quantitative Reasoning General Education requirement. Note Also: A college level statistics course will be accepted from another department (Civil Engineering 160; Economics 201; Linguistics 270; Political Science 201; Sociology 201; Statistics 119 or 250) combined with Psychology 281 in lieu of Psychology 280. Psychology 280 must be completed with a grade of B (3.0) or better for students in the emphasis in industrial and organizational psychology;

- b. Have a cumulative GPA of 2.50 or better.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

Advising

All students planning to major in psychology are urged to visit the Psychology Undergraduate Advising Office (Life Sciences 105). Students should meet with a psychology adviser at least once per semester to ensure they are on track to graduate. The Advising Office is open year-round and may be contacted at 619-594-5412, psychology.advising.sdsu@sdsu.edu.

Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs website was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

Psychology Major

With the B.A. Degree in Applied Arts and Sciences
(Open only to AA-T/TMC)

(Major Code: 20011) (SIMS Code: 778307)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

The Applied Arts and Sciences degree is open only to students who have completed the California Community College Associate in Arts in Psychology for Transfer (AA-T) degree completing the Transfer Model Curriculum (TMC) for Psychology.

A minor is not required for this major. However, depending on career goals, students may wish to consider minors in areas such as biology, business, public administration, recreation, social work, statistics, and others.

Preparation for the Major. Psychology 101, 201, 211, 230, 260, 280, and Biology 100 (or Biology 203). (20 units) With the exception of Psychology 201, these prerequisite courses may not be taken for credit/no credit (Cr/NC). The minimum grade in each class is C (2.0) or better. **NOTE:** Psychology majors may use Psychology

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280 to satisfy Mathematics/Quantitative Reasoning General Education requirement. **NOTE ALSO:** A college level statistics course will be accepted from another department (Civil Engineering 160; Economics 201; Linguistics 270; Political Science 201; Sociology 201; Statistics 119 or 250) combined with Psychology 281 in lieu of Psychology 280.

Graduation Writing Assessment Requirement. Passing the Writing Placement Assessment with a score of 10 or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

Requirements for the Major. A minimum of 31 upper division units in psychology to include courses that meet the methods requirement and the breadth requirement.

Methods. All majors must complete Psychology 301 or 410 or both. Psychology 301 is suitable for most psychology majors, including those planning to enter the job market after graduation, those undecided about career plans, and those planning to pursue graduate work in related fields such as counseling.

Students planning to pursue graduate work in psychology (research degrees) should take Psychology 370 and 410 as early as possible. **NOTE:** Students enrolling in these courses must have earned a grade of B (3.0) or better in Psychology 280 or its equivalent. Students unsure of their statistical or computer competence may wish to take Psychology 301 before enrolling in Psychology 370 or 410.

Breadth. All majors must complete four courses or 12 units; one course selected from each of the following groups:

Group I. Psychology 340 or 344.

Group II. Psychology 319, 351, or 370.

Group III. Psychology 331, 332, 333, 350, or 407.

Group IV. Psychology 360, 361, 362, 380, or 388.

An additional 14-15 elective units selected from 300- to 500-level psychology courses to satisfy the 31 units required for the psychology major.

Psychology Major

With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 20011) (SIMS Code: 778301)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 56 units in psychology courses can apply to the Liberal Arts and Sciences degree.

A minor is not required for this major. However, depending on career goals, students may wish to consider minors in areas such as biology, business, public administration, recreation, social work, statistics, and others.

Preparation for the Major. Psychology 101, 201, 211, 230, 260, 280, and Biology 100 (or Biology 203). (20 units) With the exception of Psychology 201, these prerequisite courses may not be taken for credit/no credit (Cr/NC). The minimum grade in each class is C (2.0) or better. **NOTE:** Psychology majors may use Psychology 280 to satisfy Mathematics/Quantitative Reasoning General Education requirement. **NOTE ALSO:** A college level statistics course will be accepted from another department (Civil Engineering 160; Economics 201; Linguistics 270; Political Science 201; Sociology 201; Statistics 119 or 250) combined with Psychology 281 in lieu of Psychology 280.

Language Requirement. Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

Graduation Writing Assessment Requirement. Passing the Writing Placement Assessment with a score of 10 or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

Requirements for the Major. A minimum of 31 upper division units in psychology to include courses that meet the methods requirement and the breadth requirement.

Methods. All majors must complete Psychology 301 or 410 or both. Psychology 301 is suitable for most psychology majors,

including those planning to enter the job market after graduation, those undecided about career plans, and those planning to pursue graduate work in related fields such as counseling.

Students planning to pursue graduate work in psychology (research degrees) should take Psychology 370 and 410 as early as possible. **NOTE:** Students enrolling in these courses must have earned a grade of B (3.0) or better in Psychology 280 or its equivalent. Students unsure of their statistical or computer competence may wish to take Psychology 301 before enrolling in Psychology 370 or 410.

Breadth. All majors must complete four courses or 12 units; one course selected from each of the following groups:

Group I. Psychology 340 or 344.

Group II. Psychology 319, 351, or 370.

Group III. Psychology 331, 332, 333, 350, or 407.

Group IV. Psychology 360, 361, 362, 380, or 388.

An additional 14-15 elective units selected from 300- to 500-level psychology courses to satisfy the 31 units required for the psychology major.

Emphasis in Industrial and Organizational Psychology

(SIMS Code: 778312)

This emphasis offers students an opportunity to complete a four-course sequence (within the scope of a bachelor's degree in psychology) that will facilitate students' competitiveness in the job market and admission to graduate programs in industrial and organizational (I/O) psychology or related fields. Students will learn about theories, research, and practice in industrial and organizational psychology. Advanced courses will provide students with opportunities to complete applied projects and written assignments.

A minor is not required for this major. However, depending on career goals, students may wish to consider minors in areas such as biology, business, public administration, recreation, social work, statistics, and others.

Preparation for the Major. Psychology 101, 201, 211, 230, 260, 280, and Biology 100 (or Biology 203). (20 units) With the exception of Psychology 201, these prerequisite courses may not be taken for credit/no credit (Cr/NC). The minimum grade in each class is C (2.0) or better, except for Psychology 280 which requires a grade of B (3.0) or better. **NOTE:** Psychology majors may use Psychology 280 to satisfy Mathematics/Quantitative Reasoning General Education requirement. **NOTE ALSO:** A college level statistics course will be accepted from another department (Civil Engineering 160; Economics 201; Linguistics 270; Political Science 201; Sociology 201; Statistics 119 or 250) combined with Psychology 281 in lieu of Psychology 280.

Language Requirement. Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

Graduation Writing Assessment Requirement. Passing the Writing Placement Assessment with a score of 10 or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

Requirements for the Major. A minimum of 31 upper division units in psychology to include Psychology 301 or 410 and 12 units to include Psychology 319, 320, 321, and 370.

Methods. All majors must complete Psychology 301 or 410 or both. Psychology 301 is suitable for most psychology majors, including those planning to enter the job market after graduation, those undecided about career plans, and those planning to pursue graduate work in related fields such as counseling.

Students planning to pursue graduate work in psychology (research degrees) should take Psychology 370 and 410 as early as possible.

NOTE: Students enrolling in these courses must have earned a grade of B (3.0) or better in Psychology 280 or its equivalent. Students unsure of their statistical or computer competence may wish to take Psychology 301 before enrolling in Psychology 370 or 410.

Breadth. All majors must complete three courses or nine units; one course selected from groups I, III, and IV:

Group I. Psychology 340 or 344.

Group II. Satisfied by emphasis core courses.

Group III. Psychology 331, 332, 333, 350, or 407.

Group IV. Psychology 360, 361, 362, 380, or 388.

An additional 5-6 elective units selected from 300- to 500-level psychology courses to satisfy the 31 units required for the psychology major.

Recommendations for Psychology Electives

Employment with the B.A. Electives should be selected in accord with general career goals. Students interested in health and human services may take courses that focus on psychological health and well-being or issues related to child development. Those interested in business may take courses that focus on industrial, organizational and consumer issues or that emphasize computer skills, measurement, data analysis, or some combination of these.

Masters programs in counseling. At SDSU, a Master of Science degree in Counseling is offered by the College of Education and a Master of Social Work degree is offered by the College of Health and Human Services. For these programs students have considerable latitude in the selection of psychology electives, but it is important to develop an appropriate profile of volunteer or work experience.

Graduate programs in psychology. Most masters or doctoral programs in psychology require students to have strong research profiles. SDSU psychology majors can accomplish this by completing Psychology 370, 410, and becoming involved as early as possible in faculty-sponsored research.

Psychology Minor

The minor in psychology consists of 19-21 units selected from one of the following areas:

Cognitive and Behavioral Neuroscience (SIMS Code: 778334):

Psychology 101, 260, and Biology 100; 12 units of upper division psychology courses selected from Psychology 360, 361, 362, 365, 380, and 388. (21 units)

Industrial/Organizational (SIMS Code: 778336): Psychology 101 and 280 or equivalent, and Psychology 319, 320, 321, 340. (19 units)

Personality and Social (SIMS Code: 778360): Psychology 101, 230 and 211 or 260*; 12 units of upper division psychology courses of which nine must be selected from Psychology 331 or 332 or 333, 340, 350 and 351. (21 units)

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

*Additional prerequisites required.

Industrial/Organizational (I/O) Psychology Certificate

(Offered only through SDSU Global Campus)

(SIMS Code: 778381)

Industrial/organizational (I/O) psychology is the scientific study of the workplace. Using psychological theory and methodology, I/O psychologists contribute to evidence based practice designed to improve understanding and management of human resources and organizational behavior. The certificate offers non-degree seeking students a rigorous introduction to theories, methods, and practice of I/O psychology; and how to apply theories and methods of psychology to issues of critical relevance to organizations to include:

1. Recruitment, assessment, and personnel selection;
2. Training needs assessment and design;
3. Performance measurement and talent management;
4. Coaching and individual development;
5. Organizational development and change management;
6. Employee satisfaction, morale, and work-life balance;
7. Leadership and motivation.

Admission Requirements

To be admitted to the certificate program, students must have earned a high school diploma or equivalent and must demonstrate by previous coursework and/or work experience evidence of potential for completing the academic program. Previous courses in psychology taken at SDSU or at other universities will be considered for credit toward certification on an individual basis, but not to exceed seven units.

The Department of Psychology is responsible for the coordination of the certificate program in conjunction with SDSU Global Campus. Applications may be submitted prior to entering the program or before the completion of nine semester units of coursework.

Students are required to submit an Open University Registration Form each semester to SDSU Global Campus.

Students accepted into the program will be assigned an adviser by the Department of Psychology.

Certificate Requirements

Complete 16 semester units of coursework to include Psychology 101, 280, 319, 320, 321. Students may transfer up to seven units earned in Psychology 101 or 280. PSY 319, 320, and 321 must be completed at San Diego State University.

Achieve a cumulative grade point average of 2.5 or better. Each course must be completed with a grade of C (2.0) or better.

Psychology 101 must be completed before taking Psychology 319, 320, 321.

Complete coursework within four years after admission to the program.

Petition SDSU Global Campus for the certificate upon completion of 16 semester units.

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Courses (PSY)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

NOTE: Many psychology courses have enforced prerequisites, meaning the student must provide proof of having completed the prerequisite to the instructor in order to remain enrolled. Students who have not completed an enforced prerequisite and who fail to drop the class officially will be assigned the grade of "WU," which is equivalent to an "F." Before enrolling in psychology courses, students should consult the catalog to determine that they have completed any enforced prerequisites.

LOWER DIVISION COURSES

PSY 101. Introductory Psychology (3) [GE]

Facts, principles, and concepts which are basic to understanding human behavior.

PSY 117. Health, Happiness, and Academic/Professional Success (3) [GE]

Evidenced-based skills to help in multiple areas of life on and off campus to include academics, mental and physical health, social connections and relationships.

PSY 201. Academic and Career Opportunities in Psychology (1) Cr/NC

Prerequisites: Psychology 101 and completion of 30 units.

Information about careers in psychology. Includes identification of career-related strengths and interests and information on post-baccalaureate options in psychology and related fields. Introduction to resources in Psychology Undergraduate Advising and Career Services.

PSY 211. Introduction to Cognitive Psychology (3)

Prerequisite: Psychology 101.

Basic principles and research in animal and human cognition.

PSY 230. Developmental Psychology (3)

Prerequisite: Psychology 101. **Proof of completion of prerequisite required:** Copy of transcript.

Psychological development of normal individual from conception through childhood, adolescence, and maturity. Emphasis on interdependence of various periods of the individual's life. Not open to students with credit in Child and Family Development 270.

PSY 260. Introduction to Physiological Psychology (3)

Prerequisites: Psychology 101 and Biology 100. **Proof of completion of prerequisites required:** Copy of transcript.

Elementary physiology of the nervous system. Physiological mechanisms underlying the psychological phenomena of sensation, perception, emotion, arousal, motivation, learning and memory, and cortical specialization.

PSY 280. Statistical Methods in Psychology (4) [GE]

Three lectures and two hours of laboratory.

Prerequisite: Psychology 101. **Proof of completion of prerequisite required:** Copy of transcript.

Quantitative methods in psychology for producing, analyzing, and interpreting data. Sampling, basic research designs, describing distributions, correlation, regression, applications of normal probability curve, confidence intervals, and tests of significance. Analysis and interpretation of data using statistical, spreadsheet, and word processing software. Students with credit or concurrent registration in the following lower division statistics courses will be awarded a total of four units for the two (or more) courses: Psychology 280; Administration, Rehabilitation and Postsecondary Education 201; Biology 215; Civil Engineering 160; Economics 201; Linguistics 270; Political Science 201; Sociology 201; Statistics 119 and 250.

PSY 280X. Statistical Methods in Psychology Support (1) Cr/NC

Three hours of activity.

Prerequisites: Psychology 101 and concurrent registration in Psychology 280. Required for students who have not satisfied the SDSU Mathematics/Quantitative Reasoning Assessment requirement.

Required support course for Psychology 280. Credit in this course satisfies the SDSU Mathematics/Quantitative Reasoning Assessment requirement.

PSY 281. Data Analysis in Psychology (2)

One lecture and two hours of laboratory in computer laboratory.

Prerequisite: Credit in a three-unit statistics course without a computer laboratory component. **Proof of completion of prerequisite required:** Copy of transcript.

Statistical and graphic analysis and interpretation of psychological data using computer technology. Activities involve statistical, spreadsheet, and word processing software. Not open to students with credit in Psychology 280.

PSY 296. Experimental Topics (1-3)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES

(Intended for Undergraduates)

PSY 301. Introduction to Research Methods in Psychology (4)

Three lectures and two hours of laboratory.

Prerequisites: Completion of the Graduation Writing Assessment Requirement or the eligibility to enroll in an upper division writing course. Psychology 101 and 280. **Proof of completion of prerequisites required:** Copy of transcript. Open only to psychology majors.

Methods used to answer questions in psychology, including case study, observation, survey, experimental, and field study procedures. Class projects using these methods, interpreting results and report writing; critically evaluating research findings.

PSY 316. Behavior Modification (3)

(Offered only at SDSU-IV)

Prerequisite: Psychology 101. Recommended: Psychology 211.

Contingencies of reinforcement, stimulus control, response shaping, aversive control, and other basic principles of operant behavior applied to understanding and modification of human behavior.

PSY 319. Industrial and Organizational Psychology (3)

Prerequisite: Psychology 101. **Proof of completion of prerequisite required:** Copy of transcript.

Broad-based survey of various content areas of industrial (e.g. selection, appraisal) and organizational (e.g. motivation, leadership) psychology. Underlying psychological principles that influence human behavior in the workplace. Not open to students with credit in Psychology 320 or 321.

PSY 320. Personnel and Industrial Psychology (3)

Prerequisite: Psychology 319. **Proof of completion of prerequisite required:** Copy of transcript.

Psychological principles applied to industrial problems of selection, placement and training.

PSY 321. Organizational Psychology (3)

Prerequisite: Psychology 319. **Proof of completion of prerequisite required:** Copy of transcript.

Human behavior in context of organizational life. Factors related to effectiveness of individuals and groups within organizations, including organization design, leadership and control, motivation, cooperation, and conflict.

PSY 331. Psychology of Infant and Child Development (3)

Prerequisites: Psychology 101 and 230. Students enrolling in this course must have earned a grade of C (2.0) or better in Psychology 230. **Proof of completion of prerequisite required:** for Psychology 230: Copy of transcript.

Psychological development of normal child from infancy through childhood focusing on physical, social, cognitive, and linguistic aspects of development.

PSY 332. Psychology of Adolescent and Early Adult Development (3)

Prerequisites: Psychology 101 and 230. Students enrolling in this course must have earned a grade of C (2.0) or better in Psychology 230. **Proof of completion of prerequisite required:** for Psychology 230: Copy of transcript.

Psychological development of normal individual from adolescence through early adulthood focusing on physical, social, and cognitive aspects of development.

PSY 333. Developmental Psychopathology (3)

Prerequisites: Psychology 101 and 230. Students enrolling in this course must have earned a grade of C (2.0) or better in Psychology 230. **Proof of completion of prerequisite required** for Psychology 230: Copy of transcript.

Cognitive, affective, and social aspects of abnormal development from childhood through adolescence. Consideration, within a developmental framework, of etiological theories and factors, problem expression and treatment issues.

PSY 340. Social Psychology (3) [GE]

Prerequisite: Psychology 101.

Major problems and findings concerning group behavior and group membership, the socialization of the individual, and processes of social interaction.

PSY 344. Psychology and Culture (3)

Prerequisite: Psychology 101.

Impact of culture in each of psychology's major areas, theories, and empirical findings.

PSY 345. Chicana and Chicano Psychology (3)

Prerequisite: Psychology 101.

Evolution of psychology of Chicanos with emphasis on understanding underlying roots and foundations. Empirical research conducted with Chicanos in areas of psychology, psychiatry, and mental health.

PSY 350. Abnormal Psychology (3)

Prerequisite: Psychology 101.

Causes and treatment of abnormal behavior with emphasis on major behavior disorders.

PSY 351. Psychology of Personality (3) [GE]

Prerequisite: Psychology 101.

Major theoretical approaches to individual differences and the study of the person. Techniques of personality assessment. Selected research findings.

PSY 353. Stress, Trauma, and the Psychological Experience of Combat (3)

Prerequisite: Psychology 101.

Physiology, psychological experience, historical context, and measurement of stress, to include family and workplace stress, large scale traumatic events and disasters, combat and war. Coping with stress, loss, emotional wounds, and bereavement. Treatment, diagnosis, and potential for personal growth.

PSY 355. Psychology of Human Sexual Behavior (3)

Prerequisite: Psychology 101.

Evaluation of behavioral and physiological data of normal, aberrant, and dysfunctional human sexual behavior, including description of available treatment methods.

PSY 356. Forensic Psychology (3)

Prerequisite: Psychology 350.

How psychological research and theory informs legal processes. Behavioral analysis, criminal investigation, eyewitness identification, jury selection, juvenile forensics and death penalty cases, mental competencies, police work, school bullying, sexual abuse issues, and threat assessment.

PSY 360. Behavioral Neuroscience (3)

Prerequisites: Psychology 101 and 260. **Proof of completion of prerequisites required:** Copy of transcript.

Biological and physiological underpinnings of behavior: genetics, hormones, transmitters, plasticity/regeneration, development, and metabolism/nutrition. Analysis of their role in normal behavior, psychopathology, neurological disorders, and treatment of behavioral disturbances.

PSY 361. Neuropsychology (3)

Prerequisites: Psychology 101 and 260. **Proof of completion of prerequisites required:** Copy of transcript.

Characterization of human brain-behavior relationships derived from neuropsychometric studies of healthy, neuropsychiatric and brain damaged populations. Emphasis on functional neuroanatomy and the effects of abnormal brain development and disease on processes such as cognition, memory, language, visual-spatial, and other functions.

PSY 362. Cognitive Neuroscience (3)

Prerequisites: Psychology 101 and 260. **Proof of completion of prerequisites required:** Copy of transcript.

Functional organization of the human brain, including sensorimotor and cognitive systems and their functional interactions; development and evolution; normal and pathological plasticity. Approaches applied to healthy human brain, such as neuroimaging and event-related potentials.

PSY 365. Drugs and Behavior (3)

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences.

Fundamentals of regulation, administration, tolerance, dependence, and physiological activity of drugs. Effects of stimulants, depressants, opiates, psychedelics, and psychotherapeutic drugs on the nervous system and on cognitive, personality, and behavioral functioning.

PSY 370. Psychological Testing and Measurement (3)

Prerequisites: Psychology 280 or equivalent statistics course with a grade of B (3.0) or better; Psychology 301 with a grade of B (3.0) or better. **Proof of completion of prerequisites required:** Copy of transcript. **NOTE:** Students electing to take Psychology 410 for the methods requirement may petition waiver of the Psychology 301 prerequisite by permission of the undergraduate adviser. Open only to psychology majors.

Measurement theory and the basic principles of testing. Selection, construction and critical evaluation of group tests of intelligence, personality, aptitude, interest and achievement.

PSY 380. Intermediate Cognitive Psychology (3)

Prerequisite: Psychology 101. Recommended: Psychology 211.

Research and theory on attention, language, learning, memory, thinking, and understanding.

PSY 388. Sensation and Perception (3)

Prerequisites: Psychology 101 and 260.

Theory and research in sensory and perceptual processes.

PSY 407. Health Psychology (3)

Prerequisites: Psychology 211 and 280. **Proof of completion of prerequisites required:** Copy of transcript.

Behavioral components of major illnesses and causes of death and disability. Primary prevention of health problems through behavior change and psychological features of the health care system.

PSY 410. Advanced Research Methods Laboratory (5)

Two lectures and six hours of activity.

Prerequisites: Completion of the Graduation Writing Assessment Requirement or the eligibility to enroll in an upper division writing course. Psychology 211; Psychology 280 or equivalent statistics course with a grade of B (3.0) or better. **Proof of completion of prerequisites required:** Copy of transcript. Open only to psychology majors.

Use of research design, quantitative methods, and research reports as applied to all areas of psychology.

PSY 442. Prejudice and Stereotypes (3)

Prerequisite: Psychology 340. **Proof of completion of prerequisite required:** Copy of transcript.

Classic and contemporary theories and research on prejudice and stereotyping to include origin and forms of phenomena, consequences, and approaches aimed at reducing them.

PSY 452. Introduction to Counseling and Therapy (3)

Prerequisite: Psychology 350 or 351. **Proof of completion of prerequisite required:** Copy of transcript.

Theory, methods, and research in psychological approaches to personality and behavior change.

PSY 470. Intermediate Statistics for Psychological Research (3)

Prerequisite: Consent of instructor.

Theoretical foundations of statistics including probability theory, distribution theory, and statistical inference. Model-based statistical comparisons. Application of statistical theory to psychological research questions.

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PSY 491. Academic or Psychological Counseling Experiences (3) Cr/NC

Prerequisites: Upper division psychology major with a 3.0 minimum grade point average and consent of psychology undergraduate coordinator.

Individual supervision of academic or psychological counseling experiences, geared to acquisition of counseling and communication skills. May be repeated with approval of psychology undergraduate coordinator. Maximum credit six units. No more than nine units of Psychology 491, 494, 495 may be counted toward the major and no more than 12 units of courses numbered Psychology 491, 494, 495, 497, 499 may be counted toward the major.

PSY 492. Responsible Conduct in Scientific Research (1) Cr/NC

Prerequisite: At least one introductory level science course.

Responsible conduct in scientific research. Topics include conflict of interest, plagiarism, reporting of scientific results, authorship, responsible use and care of animals, responsible use of human subjects.

PSY 494. Special Study: Techniques for Teaching and Tutoring in Psychology (2) Cr/NC

Prerequisite: Consent of instructor.

Practical knowledge and experience in psychology instruction and advanced content in a specific area of psychology. May be repeated with new content. Maximum credit four units. No more than nine units of Psychology 491, 494, 495 may be counted toward the major and no more than 12 units of courses numbered Psychology 491, 494, 495, 497, 499 may be counted toward the major.

PSY 495. Field Placement in Psychology (3) Cr/NC

Prerequisites: Psychology 350 and three units from Psychology 230, 340, or 351. **Proof of completion of prerequisites required:** Copy of transcript.

Students will be assigned to various community agencies and work under joint supervision of an agency supervisor and course instructor, attend class meetings, and staff conferences. May be repeated with approval of psychology undergraduate coordinator. Maximum credit six units. No more than nine units of Psychology 491, 494, 495 may be counted toward the major and no more than 12 units of courses numbered Psychology 491, 494, 495, 497, 499 may be counted toward the major.

PSY 496. Selected Topics in Psychology (1-4)

Prerequisite: Psychology 101.

Intensive study in specific areas of psychology. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

PSY 497. Senior Project (1-3)

Prerequisites: Twelve units of psychology and consent of instructor.

Individual investigation and APA-style report on a research project. Maximum credit six units. No more than nine units of Psychology 497 and 499 may be counted toward the major and no more than 12 units of courses numbered Psychology 491, 494, 495, 497, 499 may be counted toward the major.

PSY 498. Undergraduate Honors Thesis (3-6)

Prerequisites: Psychology 410, 3.5 overall GPA or 3.75 GPA in major, and consent of honors coordinator.

Directed research in psychology and completion of honors thesis. Required of students graduating with a Certificate of Recognition of Psychology Honors Thesis. May be repeated for a maximum of six units.

PSY 499. Special Study (1-3) Cr/NC

Individual study, including library or laboratory research and a written report. Maximum credit six units. No more than nine units of Psychology 497 and 499 may be counted toward the major and no more than 12 units of courses numbered Psychology 491, 494, 495, 497, 499 may be counted toward the major.

UPPER DIVISION COURSES

(Also Acceptable for Advanced Degrees)

PSY 561. Advanced Neuropsychology (3)

Prerequisite: Psychology 360 or 361 or grade of B (3.0) or better in Psychology 260.

Biological bases of neuropsychological function and dysfunction, relationships between brain structure and function, neuropsychological assessment tools.

PSY 568. Systems Neuroscience (3)

Two lectures and two hours of activity.

Prerequisite: Psychology 360, 361, 365, or Biology 570.

Neuroanatomy and neurophysiology of the mammalian through a signals and systems lens to include auditory, cell physiology, motor and limbic systems, neural development, simple neural models, somatosensory, and visual components. Neuroimaging physics.

PSY 569. Foundations of Neuroimaging (3)

Two lectures and two hours of activity.

Prerequisite: Psychology 101.

Physical and mathematical foundations of diffusion, functional, structural, perfusion MRI, and fMRI time series analysis. Cortical-surface based reconstruction and data analysis. Neural basis, localization, and recording of EEG and MEG signals.

PSY 596. Selected Topics in Psychology (1-3)

Prerequisites: Psychology 101 and consent of instructor.

Intensive study in specific areas of psychology. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

GRADUATE COURSES

Refer to the *Graduate Bulletin*.