

Psychology

College of Social and Behavioral Sciences

Chair: Carrie Saetermoe

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Faculty:

Andrew Ainsworth, Tyler Blake, Gabriela Chavira, Jean Elbert, Sheila Grant, Donna Hardy, Jay Holden, Sun-Mee Kang, Gary Katz, Ellie Kazemi, Luciana Laganá, Howard Lee, Brennis Lucero-Wagoner, Debra Malmberg, Bradley McAuliff, Maura Mitrushina, Shannon Morgan, Roger Moss, Janet Oh, Mark Otten, Scott Plunkett, Jill Quilici, Jill Razani, Abraham Rutchick, Carrie Saetermoe, Mark Sergi, Jerry Shaw, Dee Shepherd-Look, Paul Skolnick, Holli Tonyan, Michele Wittig, Erica Wohldmann, Robert Youmans

Emeritus Faculty:

S. Joyce Brotsky, Donald Butler, Karla Butler, Robert Dear, Richard Docter, Ronald Docter, Linda Fidell, Helen Giedt, Roy Griffiths, Alice Hawkins, Melvin Hoffman, Patricia Keith-Spiegel, William Knowles, James McMartin, Benjamin Mehlman, Joseph Morris, Samuel Moss, Samuel Pinneau, Leo Pirojnikoff, Edward Sampson, Mark Sanders, Ruth Sydney Segel, Richard W. Smith, Irving Streimer, Stanley Summers, James Torcivia, Nora Weckler

Programs

Undergraduate:

B.A., Psychology

Minor in Psychology

Graduate:

M.A., Psychology

The Major

Major in Psychology. The course of study and the requirements for the B.A. degree in Psychology provide an opportunity for students who a) desire to extend their education in the liberal arts with an emphasis in psychology, b) wish to prepare themselves for graduate work in psychology, c) plan to enter one of several professional or occupational fields for which a substantial background in psychology is essential.

Minors Associated with Psychology:

1. Minor in Psychology. Students whose major is in another area may complete a minor in psychology, selecting coursework which complements their major field. Consult a psychology undergraduate advisor for details.
2. Interdisciplinary Minor in Human Sexuality. Students wishing to develop an undergraduate specialization in this area may complete a part of their coursework in psychology. Consult the Human Sexuality section of this catalog for details.
3. Interdisciplinary Minor in Gerontology. Students interested in the processes of aging or careers in gerontology should consider this minor. Consult the Gerontology section of this catalog for details.

Student Learning Outcomes of the Undergraduate Program

The Psychology baccalaureate should have knowledge and understanding of the theory, concepts, and empirical approaches from diverse perspectives of psychology including biological processes, developmental processes, individual and social processes, learning and cognitive processes; knowledge and understanding of statistical analysis of psychological data and research methodology; an ability to understand current psychological literature, through framing hypothesis-driven experiments and critically evaluating current psychological materials.

Careers

Most careers in psychology require graduate study at the master's or doctoral level. However, there are increasing opportunities in business, education, and health care for bachelor's level psychologists. Master's programs can lead to a wide range of careers including school psychology, business applications (human factors psychology and industrial-organizational psychology), clinical psychology (if one receives appropriate education and obtains a license), as well as a variety of other careers found in school settings (counseling, testing, research, and administration), community mental health clinics, prevention and/or high risk programs for health/lifestyle issues, and programs using behavioral modification techniques, rehabilitation centers, and other health facilities. Psychologists are also employed by nearly all levels of governmental agencies, the Department of Veteran's Affairs, the Department of Defense, the Department of Health and Human Services, as well as state, county, and local mental health services. Psychologists who receive their doctorate may become professors, researchers, public policy analysts, and licensed clinical psychologists.

Academic Advisement

Contact undergraduate advisors Robert Park and Michelle Bayol at (818) 677-2952. For graduate program advisement call (818) 677-2827. Individual Option advisors are: Dee Shepherd-Look (Clinical Psychology), Bradley McAuliff and Gabriela Chavira (General Experimental Psychology), and Shannon Morgan (Human Factors and Applied Psychology).

Requirements for the Bachelor of Arts Degree

1. Lower Division Required Courses (10 Units)

MATH	140	Introductory Statistics (4)
PSY	150	Principles of Human Behavior (3)
PSY	250	Physiological Correlates of Human Behavior (3)*

*A score of 151 or higher on the English Placement Test is prerequisite to PSY 250.

Supporting courses in biology, mathematics, philosophy, and the social sciences are recommended but not required.

2. Lower Division Electives:

Lower Division courses other than those specified as required do not count toward a major in psychology, but rather, exist to inform students about topics of special interest and will count toward the total units required for graduation.

3. Upper Division Required Courses (16 Units)

Note that Completion of the Lower Division Writing Requirement is prerequisite to PSY 321/L and to 313/L, 345/L, and 370/L. Students are advised to complete the Lower Division Writing Requirement and to take PSY 320/L and 321/L early in their program because these courses are prerequisite to other upper division courses required in the major.

The following courses are required:

PSY	320/L	Statistical Methods in Psychology and Lab (3/1)
PSY	321/L	Experimental Psychology and Lab (3/1)
One of the following courses with its associated lab is required:		
PSY	313/L	Developmental Psychology and Lab (3/1)
PSY	345/L	Social Psychology and Lab (3/1)
PSY	370/L	Psychology of Personality and Lab (3/1)

One of the following courses with its associated lab is required:

PSY	401/L	Comparative Psychology and Lab (3/1)
PSY	402/L	Brain and Behavior and Lab (3/1)
PSY	403/L	Perception and Cognition and Lab (3/1)

4. Upper Division Electives (16 Units Or More)

Note that Electives may include the above upper division courses not taken to satisfy other requirements or any 300- or 400- level courses

in the Department of Psychology. Students may not double count the above courses as required courses and elective courses. No more than 6 units of PSY 498 (Practicum) and no more than 6 units of PSY 499 (Independent Study) may be counted toward the major. Please note that the number of units in psychology must total 42 units; transfer credit for courses that reflect fewer units than those at CSUN must be compensated for in upper division elective units.

General Education: Students may not double count psychology and General Education courses except for PSY 150. Students of Psychology are not exempt from any sections of the General Education program.

Total Units in the Major	42
General Education Units	48-52
Additional Units	20-22
Total Units Required for the Degree	120

Minor in Psychology

1. Lower Division Required Courses (6 Units)

PSY 150	Principles of Human Behavior (3)
PSY 250	Physiological Correlates of Human Behavior (3)

2. Upper Division Required Courses (4 Units)

Select one of the following courses:

PSY 313/L	Developmental Psychology and Lab (3/1)
PSY 345/L	Social Psychology and Lab (3/1)
PSY 370/L	Psychology of Personality and Lab (3/1)

3. Upper Division Electives (11 Units)

Total Units Required in the Minor	21
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Requirements for the M.A. in Psychology

The Department of Psychology offers advanced training in three areas of psychology: 1) Clinical Psychology, 2) General Experimental Psychology, and 3) Human Factors and Applied Psychology. (School Psychology is an integrated program with the Department of Educational Psychology and Counseling. Persons interested in advanced training in school psychology should apply to the Department of Educational Psychology and Counseling in the College of Education.) Consult the Department of Psychology Graduate Handbook (www.csun.edu/psychology) for details about the graduate programs and procedures and requirements for admission.

A. Procedures and Requirements for Admission:

Department deadlines for application are February 15 for Fall admission (Clinical Psychology, and General Experimental Psychology, Human Factors and Applied Psychology) and November 1 for Spring admission (General Experimental and Human Factors only). The Departmental Application Form (available from the Psychology Graduate Office or www.csun.edu/psychology) should be submitted to the Psychology Graduate Office by the above deadlines. Transcripts, letters of recommendation and, in some cases, personal interviews are required. Early application, careful study of the Department of Psychology Graduate Handbook and of the University Catalog, and consultation with the graduate advisor are strongly recommended.

B. Classified Admission and Conditionally Classified Admission:

Participation in any of the graduate programs offered by the Department of Psychology is limited to **Classified** and **Conditionally Classified** graduate students. Conditionally Classified Admission, used sparingly by the Department, is for students who have met all requirements for admission to the graduate program except for completion of a course or examination. The Department specifies the conditions to be fulfilled before classified standing is awarded. Normally, these conditions must be met within the first semester of graduate training.

C. For Admission to Classified Graduate Status

1. Admission to any of the three graduate programs, except as noted in the Department of Psychology Graduate Handbook, generally requires an undergraduate major in psychology. Applicants who do not have a major in psychology are required to complete certain undergraduate courses prior to acceptance to classified status. Those who do not have a major in psychology should study the Graduate Handbook and consult with the appropriate graduate program coordinator about these requirements.
2. A grade point average of 3.0 is required except on approval by the graduate committee of the program to which admission is sought. Enrollment is limited; it is not possible to admit all of the qualified students who apply.
3. Completion of the general test and the advanced psychology test of the Graduate Record Examination is required, with satisfactory scores as prescribed by the graduate committee of the option in which degree work is to be taken. In certain programs, persons with appropriate undergraduate preparation may request waiver of the requirement for the advanced psychology test.
4. Personal interview, prior experience in applied work and satisfactory letters of recommendation are required by some programs. Consult the Department of Psychology Graduate Handbook.
5. General University requirements must also be met. Carefully consult other sections of this catalog for details. These requirements include the passage of the Upper Division Writing Proficiency Exam with a score of 8 or higher (UDWPE).

The Master of Arts Programs in Psychology

A. Clinical Psychology

Clinical psychology emphasizes theory and practice in psychological assessment and psychological interventions together with the study of research methods and program evaluation. Students participate in fieldwork placements in clinical settings in our on-campus Community Services Center in Monterey Hall as well as in off-campus placements. In addition, students may opt to engage in independent research programs leading to graduate theses. This Program is designed for students aspiring to enter doctoral programs in clinical psychology and for those seeking master's level clinical and research skills. Taken alone, it is not intended as preparation for the independent, unrestricted private practice of clinical psychology, which requires a doctoral-level license in California and in most other states. (Note: The Clinical Psychology Program is not a Marriage and Family Therapy (MFT) program. CSUN's MFT program is offered by the Department of Educational Psychology and Counseling.) The clinical psychology program requires students to complete a minimum of 48 units.

1. Required Courses (33 Units)

Clinical Psychology (6 units)

PSY 595A-Z	Experimental Topics in Psychology (3)
PSY 605	Introduction to Health Psychology (3)

Advanced Psychopathology (6 units)

PSY 610A	Advanced Psychopathology - Child (3)
PSY 610B	Advanced Psychopathology - Adult (3)

Psychological Assessment (8 units)

PSY 625C/L	Child/Adolescent Psychological Assessment and Lab (3/1)
PSY 625D/L	Adult Psychological Assessment and Lab (3/1)

Advanced Psychotherapy Techniques (6 units)

PSY 628	Fundamentals of Psychotherapy (3)
PSY 629	Seminar in Behavior Modification (3)

Advanced Statistics and Research Design (7 units)

PSY 420/L	Advanced Statistical Methods and Lab (3/1)
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PSY 692 Seminar in Research Methodology (3)

Fieldwork (9-15 units)

PSY 655A-Z Fieldwork in Psychological Services* (1-5)
Students must enroll in a minimum of 9 units of PSY 655(A-D) as shown in the course sequence. This requires participation in our on-campus or off-campus clinical fieldwork placements. Students electing not to complete a master's level thesis must enroll in an additional 6 units of Psy 655 Fieldwork beyond the 9 unit minimum for a total of 15 units of fieldwork.

**May be repeated (up to 4 semesters) and taken for a varying number of units (1-5).*

Thesis OR Graduate Project (6 units)

PSY 698 Thesis or Graduate Project (3-3)

Students may elect to complete a master's level thesis or project as part of their degree requirements. Specific academic, formatting, and oral defense requirements are found in the Department of Psychology Graduate Handbook. Students who elect not to complete a master's level thesis or project are required to enroll in an additional 6 units of fieldwork beyond the 9 unit required fieldwork experience.

2. Comprehensive Examination and Final Oral Examination, Deadlines and Grade Requirements

- Comprehensive Examination: Students opting out of a research thesis will enroll in PSY 697 and will complete a comprehensive examination in their second year of study as their culminating experience. The examination is conducted by the graduate committee of the area in which the student specializes. For further information, consult the Department of Psychology Graduate Handbook or graduate advisor.
- Final Oral Examination (Thesis option only): Students electing to complete a master's thesis will take an area examination in their second year and will have their thesis defense as their culminating experience. Candidates for the M.A. degree must pass an examination in the area of their specialization. This exam is primarily based on the thesis and is scheduled 2 weeks after the final version of the thesis is presented to the graduate committee.
- Total time allowed for completion of the entire program is 7 years from the time of acceptance. Students who intend to interrupt their program are expected to notify the department in writing to request prior approval. Those who fail to meet these requirements, or who fail to maintain a grade-point average of 3.0 or greater, are subject to being dropped from the program.

First year evaluation: An evaluation will be made at the conclusion of the first year encompassing all aspects of a student's work to determine eligibility to proceed into the second year of the program.

Total Minimum Units Required for the M.A. Degree, Clinical Psychology 48

B. General Experimental Psychology

This program emphasizes basic theory and methodology in psychology. Following completion of core requirements, the student, in conference with a graduate advisor, may select an area of interest in psychology and set personal study objectives. Currently, some areas of interest in which specialized training is available are a) quantitative methods and research design, b) physiological psychology, c) learning and cognition, d) social psychology, e) behavior modification and f) developmental psychology. A rigorous program in General Experimental Psychology, with thesis, is advised for the student who intends later to go on to the Ph.D.

1. Required Courses (20 Units)

Advanced Statistical Methods/Lab (8 units)

PSY 420/L Advanced Statistical Methods and Lab (3/1)
and PSY 520/L Multivariate Statistical Methods and Lab (3/1)

or PSY 524/L Multivariate Analysis by Computer and Lab (3/1)

Advanced Research Methods (3 units)

PSY 692A Seminar in Research Methodology (3)

Advanced Psychological Theory (9 units)

Select 6 units from the following:

PSY 690A Seminar in Sensation and Perception (3)
PSY 690B Seminar in Conditioning and Learning (3)
PSY 691A Seminar in Cognition (3)
PSY 691B Seminar in Emotion and Motivation (3)

Select 3 units from the following:

PSY 640 Advanced Social Psychology I (3)
or PSY 641 Advanced Social Psychology II (3)

2. Electives (8 Units)

Students must take 8 or more academic units at the 400-level (by permission), 500- or 600-level.

3. Thesis (6 Units)

PSY 697 Directed Comprehensive Studies (3)
PSY 698 Thesis or Graduate Project (3-3)

- Area Examination: 3 units, which do not count toward 34 units. Each candidate for the M.A. degree must pass an examination in the area of General Experimental Psychology conducted by the graduate committee of this option. For further information, consult the Department of Psychology Graduate Handbook or graduate advisor.
- Final Oral Examination: This examination is based primarily on the thesis and is scheduled 2 weeks after the final version of the thesis is presented to the graduate committee.
- Total time allowed for completion of the entire program is 7 years from the time of acceptance. Students who intend to interrupt their program are expected to notify the department in writing to request prior approval. Those who fail to meet these requirements, or who fail to maintain a grade-point average of 3.0 or greater, are subject to being dropped from the program.

Total Minimum Units Required for the M.A. Degree, General Experimental Psychology 34

C. Human Factors and Applied Psychology

This program emphasizes the application of advanced psychological theories and methods to contemporary problems in the design and evaluation of people-technology-environment systems. Objectives are to prepare students to function as effective human factors specialists in industrial, governmental or consulting organizations, and to provide a strong foundation for further advanced academic study in human factors and applied psychology. For further information, consult the Department of Psychology Graduate Handbook or graduate advisor.

1. Required Courses (21 Units)

Advanced Statistical Methods/Lab (4 units)

PSY 420/L Advanced Statistical Methods/Lab (3/1)

Advanced Psychological Theory (9 units)

PSY 656A, B, C, or D Seminar in Human Factors Principles and Applications (3-3-3)

Advanced Research Methods (8 units)

PSY 678A or B Human Performance Research in Psychology (4)
PSY 682 Subsystem Integration in Human Factors Design (4)

2. Electives (9 Units)

Thesis or Graduate Project (6 Units)

PSY 698C Thesis or Graduate Project (3-3)

- Final Oral Examination: This examination is primarily based on

the student's thesis or project and is scheduled two weeks after the final version of the thesis is presented to the student's Graduate Thesis Committee.

- b. Time for Completion: Normally, PSY 698C is taken in two successive semesters and the thesis or project is completed within one calendar year. Exceptions must be petitioned in writing to the Human Factors Option Coordinator and approved by each member of the student's thesis committee.

Total time allowed for completion of the entire program is seven (7) years from the time of acceptance. Students who intend to interrupt their program (defined as: Failure to enroll in any courses during any semester after they are admitted to the program) are required to notify the Psychology Department and the Human Factors Option Coordinator in writing to request prior approval.

Students who fail to meet these requirements, or who fail to maintain a minimum grade-point-average of 3.0 are subject to dismissal from the program.

Total Minimum Units Required for the M.A. Degree,
Human Factors and Applied Psychology

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Course List

PSY 150. Principles of Human Behavior (3)

Designed to give students an understanding and appreciation of the scientific approach to human behavior, thought and action, and to provide the basic conceptual framework for studying the cognitive, emotional, and social aspects of human activity. Students are required to spend approximately 2.5 hours during the term in research-related activities. (Available for General Education, Social Sciences)

PSY 200. Introduction to Lifespan Psychology (3)

Prerequisite: PSY 150. Introduction to the patterns of growth, change, and stability in behavior that occurs through the entire life span. In addition to physical development, this course examines growth and change in intellectual abilities as well as how interactions with others and social relationships develop from infancy to late adulthood. (Available for General Education, Social Sciences)

PSY 230. Introduction to Human Sexual Behavior (3)

Prerequisite: ANTH, PSY or SOC 150. Introductory overview of human sexual function and sexual behavior. Emphasis on the historical and religious background of the prevailing attitudes toward sex in our culture as well as to current sexual practices from the perspective of contemporary social science. Additional topics include sexual values and ethics, love, legal aspects of sexual behavior, and eroticism in American culture. (Crosslisted with ANTH 230 and SOC 230)

PSY 245. Psychology of Social Issues (3)

Inquiry into the psychological aspects of contemporary social problems. Analysis of psychosocial variables influencing people and a consideration of the conscious and unconscious aspects of motive states underlying current social conflicts. Individually assigned readings, small group discussions, and classroom participation required. (Available for General Education, Social Sciences)

PSY 250. Physiological Correlates Human Behavior (3)

Prerequisite: PSY 150; passing grade in AAS, CHS, PAS, or ENGL 098 or eligibility for the lower division writing requirement. Designed for students majoring in psychology. Development of a greater understanding of the relationship between human behavior and human physiology. Includes basic information about the anatomy and function of the nervous system and the endocrine system. Students are required to spend approximately 1.25 hours during the term in research-related activities.

PSY 265. Psychology of Prejudice (3)

Prerequisite: PSY 150. Consideration of psychologically relevant research and theory relating to prejudice and discrimination. Special emphasis given to African American, Asian, Jewish, Latino, and Native American cultures. Topics include institutional racism and discrimination, issues of "reverse discrimination," culture, ethnicity and language, and historical victims of prejudice and discrimination. (Available for General Education, Comparative Cultural Studies)

Upper Division Course Prerequisites

1. Passing grade in AAS, CHS, PAS, or ENGL 098 or eligibility for the lower division writing requirement
2. Completion of the lower division writing requirement is a prerequisite to PSY 304, 312, 313/L, 317, 321/L, 345/L, 350, 352, 361, 365, 370/L
3. Passing the Upper Division Writing Proficiency Exam with a score of 8 or higher is a prerequisite for all 400-level courses
4. PSY 250, 320/L, and 321/L are required for many upper division courses and are recommended for most others.
5. When taken for the major, the following courses must be taken as corequisites with a 1 unit lab: PSY 320/L, 321/L, PSY 313/L, 345/L, 370/L, 401/L, 402/L, and 403/L. Exceptions must be approved by the instructor prior to enrolling.
6. 500-level psychology courses may be taken for elective credit by undergraduates if the instructor grants permission.

PSY 302. Human Learning in the Formative Years (3)

Prerequisite: PSY 150. Process of learning during infancy, childhood, and early adolescence. Topics include concepts of cognitive development, individual problems in learning, the social learning process and the role of motivation.

PSY 304. Cognitive Psychology and Instruction (3)

Prerequisite: PSY 150 and completion of the lower division writing requirement. Introduction to research and theory on how instruction affects student learning. Topics may include development of learning and thinking strategies, instructional methods, learning in subject matter areas, individual differences, and classroom processes. Explores implications for education and teacher training.

PSY 305. Cultural Determinants of Psychological Processes (3)

Prerequisite: PSY 150. Psychological analysis of human emotions, actions, and cognitions in relation to the surrounding culture from which they emerge. Interactions between conformity to societal norms, and deviation from them, are examined in depth.

PSY 306. Health Psychology (3)

Prerequisite: PSY 250. Provides an analysis of the contributions of psychology to medicine. Topics include an analysis of patient/ physician interaction, psychological risk factors in illness, behavioral management techniques for disease, psychological intervention in addictive behaviors, and psychological promotion of healthy behavior. Intended for both psychology majors and students who intend to work in health related fields.

PSY 310. Behavior Disorders (3)

Prerequisite: PSY 150. Study of the problems and dynamics of maladaptive behavior. Topics include causative factors, symptomatology, and psychotherapy.

PSY 312. Psychological Aspects of Parenthood (3)

Prerequisites: PSY 150 and completion of the lower division writing requirement. Analysis of motivations and skills necessary for parenthood and the effect of various parental attitudes and practices on the development of the self. Historical presentation of changes in parenting styles, cross-cultural views of parental practices and current information on the results of deviations in parental care. Examination of alternate family styles: single parenting, communal living arrangements and reconstituted families. (Available for General Education, Social Sciences) (IC)

PSY 313/L. Developmental Psychology and Lab (3/1)

Prerequisites: PSY 250 and completion of the lower division writing requirement. *Corequisite:* PSY 313L. *Recommended preparatory:* PSY 320/L. Analysis of the cultural, physical, social and emotional aspects of development from birth to adolescence. Emphasis on study of the processes underlying the acquisition and development of behavior throughout the developmental period. Normative behaviors for particular ages and developmental states are examined where appropriate. Includes evaluation of selected theories, contemporary issues and practical applications. Lab: methods used to observe, record, and analyze child behavior serve as the basis for developing research projects. Three hours lecture-discussion, two hours lab per week.

PSY 317. Psychopharmacology (3)

Prerequisites: PSY 250 and completion of the lower division writing requirement. Study of the most commonly used therapeutic and recreational drugs. Physiological effects upon the central nervous system and resultant behavior.

PSY 320/L. Statistical Methods in Psychological Research and Lab (3/1)

Prerequisites: PSY 150; MATH 140. *Corequisite:* PSY 320L. Analysis of statistical decision-making procedures used in psychological research. Lab: considers problem-solving techniques and computational methods needed to analyze data obtained in psychological experiments. Three hours lecture-discussion; two hours lab per week.

PSY 321/L. Experimental Psychology and Lab (3/1)

Prerequisites: PSY 320/L and completion of lower division writing requirement. *Corequisite:* PSY 321L. Study of principles and techniques used to design and evaluate psychological research using simple and advanced experimental designs. Lab: includes use of various research methods in experimental psychology projects. Three hours lecture-discussion; three hours lab per week.

PSY 322/L. Computer Applications for Psychologists and Lab (3/1)

Prerequisite: PSY 150. *Corequisite:* PSY 322L. Introduction to the use of computers by psychologists in their clinical practice, research and teaching. Students use personal computers and student versions of state of the art applications programs. No computer experience necessary. Three hours lecture-discussion; two hours lab per week.

PSY 344. Psychology of Creativity (4)

Prerequisite: PSY 150. Examination of the research on creativity and exploration of the creative process through classroom activities, group projects, and the use of technology. Examines the application of creative processes to effective instruction.

PSY 345/L. Social Psychology and Lab (3/1)

Prerequisites: PSY 250; PSY 320/L; and completion of the lower division writing requirement. *Corequisite:* PSY 345L. Survey of phenomena that affect individual behavior. Topics include attitudes, affiliation, aggression, altruism, person perception, liking, social interaction, social influence, and group dynamics. Lab: study of methods of research in social psychology serves as a basis for developing research projects. Three hours lecture-discussion; two hours lab per week.

PSY 350. Principles of Learning (3)

Prerequisites: PSY 150 and completion of the lower division writing requirement. Basic procedures and phenomena of behavior change emphasizing respondent and operant conditioning with applications to human behavior.

PSY 352. Motivation (3)

Prerequisites: PSY 150 and completion of the lower division writing requirement. Explores basic and acquired motivations that provide the energy to arouse and direct the individual's interactions with society. Discusses research methods in the social sciences. (Available for General Education, Social Sciences) (IC)

PSY 356. Industrial and Organizational Psychology (3)

Prerequisite: PSY 150. Study of the uses of psychology in the world of work from the viewpoints of both workers and management. Representative topics include hiring, training, promotion, motivation, safety, advertising, organizational climate, leadership style, legal issues in psychological testing, job satisfaction, job enrichment and job design.

PSY 361. Adolescence (3)

Prerequisites: PSY 150 and completion of the lower division writing requirement. Analysis of the physical, cognitive, social and emotional changes from puberty to adulthood. Examines contemporary youth culture from a historical and cross-cultural perspective. Discusses evaluation of age norms and deviant development. Project involving some aspect of adolescent development is required.

PSY 365. Introduction to Gerontology (3)

Prerequisites: PSY 150 and completion of the lower division writing requirement. Study of the changes occurring with age as a result of alterations in physical conditions, economic status, role changes, etc. and the accompanying psychological effects. Students engage in volunteer activities or advocacy work in community agencies for persons over 55, or in research in memory, quality of life issues, physical health, exercise, etc. (Available for General Education, Social Sciences)(IC)

PSY 370/L. Psychology of Personality and Lab (3/1)

Prerequisites: PSY 250; PSY 320/L; and completion of lower division writing requirement. *Corequisite:* PSY 370L. Human behavior and personality as a function of social, dynamic, and biological determinants. Emphasis on social learning conditions which relate to normal and deviant behavior and other relevant contemporary issues. Lab: understanding of methods used to study personality serves as a basis for developing research projects. Three hours lecture-discussion; two hours lab per week.

PSY 380. Psychology of Stress (3)

Prerequisite: PSY 250. Cognitive, emotional and physiological effects of psychosocial stressors. Emphasis placed on differentiating stress from other motivational constructs and examining contemporary research approaches and techniques of personal stress management.

PSY 382/L. Principles of Human Factors and Lab (3/1)

Recommended Preparation: PSY 150. Overview of the interdisciplinary field of human factors, a professional specialization that considers how best to accommodate human needs in real world systems. Focuses on cognitive, behavioral, and physiological principles as they relate to the design of devices, products and systems in order to enhance human performance and satisfaction. Representative topics include principles of information processing, human characteristics and limitations, environmental stressors, user safety and applied research techniques. Lab: Hands-on experience applying human factors principles and research methodology to the analysis and evaluation of contemporary human factors problems. Three hours lecture/discussion, two hours lab per week.

PSY 383. Interpersonal Competence and Group Dynamics (3)

Prerequisite: PSY 150. Lecture-discussion and experiential activities designed to increase knowledge and skill in the areas of interpersonal relations, group dynamics and leadership.

PSY 384. Dynamics of Leadership (3)

Prerequisite: PSY 383. Examination of basic leadership theory and techniques, dynamics between leaders and group members, communication within the group and within the leadership hierarchy, and organizational management. Includes a practical application of leadership skills through participation in individual and group problem-solving projects.

PSY 386. The Role of Psychology in the Legal Process (3)

Prerequisite: PSY 150. Critical examination of the relationship between psychology and the legal system. Covers the application of social psychological theory and research to the courtroom, issues in mental health law such as competency to stand trial and the insanity defense, and legal restrictions on the practice of psychology including confidentiality and the duty to warn.

PSY 390A. Peer-Assisted Instruction in Psychology (2)

Prerequisites: PSY 150; consent of instructor and department chair. Not open to students who have received credit for 390B. Preparation and supervised experience as an instructional aide in a selected lower division psychology course. May not be repeated. (Credit may be applied to the major or minor) (Credit/No Credit Only)

PSY 390B. Peer-Assisted Instruction in Psychology (2)

Prerequisites: PSY 150; appropriate upper division psychology courses; consent of instructor and department chair. Not open to students who have received credit for 390A. Preparation and supervised experience as an instructional aide in a selected upper division psychology course. May not be repeated. (Credit may be applied to the major or minor) (Credit/No Credit Only)

PSY 401/L. Comparative Psychology and Lab (3/1)

Prerequisites: PSY 250; 320/L; 321/L; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. *Corequisite:* PSY 401L. Comparative study of animals with emphasis on the experimental analysis of their behavior. Traditional and contemporary views of instinct, learning, imprinting, social behavior, and cognition are covered. Projects require the application of previously learned research methodology and statistical techniques to the study of the natural behavior of animals in the lab and/or at the zoo. Three hours lecture-discussion; three hours lab per week.

PSY 402/L. Brain and Behavior and Lab (3/1)

Prerequisites: PSY 250; 320/L; 321/L; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. *Corequisite:* PSY 402L. Role of brain processes in behavior. Research questions and strategies are discussed. Research methods in brain and behavior studied through individual or group projects carried out in the lab. Projects require the application of previously learned research methodology and statistical techniques. Three hours lecture-discussion; three hours lab per week.

PSY 403/L. Perception and Cognition and Lab (3/1)

Prerequisites: PSY 250; 320/L; 321/L; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. *Corequisite:* PSY 403L. Analysis of the mechanisms by which people gather and process information from the environment. Basic phenomena of perception and cognition are discussed with an emphasis on experimental studies on such topics as pattern recognition, attention, memory, language, reasoning, and problem solving. Research methods in perception and cognition are studied through group projects carried out in the lab.

Projects require the application of previously learned research methodology and statistical techniques. Three hours lecture-discussion; three hours lab per week.

PSY 406. Developmental Disability (3)

Prerequisites: PSY 313/L and completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Nature and causes of mental retardation and related disabilities. Discussion of psychological, social, and educational adjustment in light of current trends.

PSY 412. Advanced Developmental Psychology (3)

Prerequisites: PSY 313/L; PSY 320/L; 321/L; and completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Critical evaluation of the experimental and theoretical literature in developmental psychology. Selected contemporary and applied issues relevant to children and adolescents are discussed.

PSY 413. Current Trends in Child Psychology (3)

Prerequisite: PSY 150 and completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. No credit if PSY 313 has been taken. Survey of the major contemporary issues, findings, and theories in child psychology, with a consideration of their broader applications. Project involving some aspect of child development is required.

PSY 418. Theories of Perception (3)

Prerequisites: PSY 403/L and completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Critical analysis of theories in sensation and perception, with a consideration of their broader implications.

PSY 420/L. Advanced Statistical Methods and Lab (3/1)

Prerequisites: PSY 320/L and completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. *Corequisite:* PSY 420L. Explores the relationships between advanced statistical methods and psychological research methods. Advanced techniques of analysis of variance and regression analysis are emphasized. Lab: considers problem-solving techniques and advanced computational methods needed to analyze data obtained in complex psychological experiments. Consideration given to an individual's particular research interest. Three hours lecture-discussion; two hours lab per week.

PSY 421A-Z. Workshop in Psychology (1-1-1-1)

Prerequisites: PSY 150 and completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Psychology workshops deal with specific psychological topics related to living and adjusting in contemporary society. Encourages relevance and practical application through the use of group discussions, simulations, role-playing, case studies, and real-life examples. Maximum of 4 units may be counted toward the major.

PSY 425. History and Perspectives in Psychology (4)

Prerequisite: PSY 150; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Historical development of psychology from its ancient origins to recent times with emphasis on its growth as a science, leading into discussions of the basic issues in contemporary psychology.

PSY 426. Contemporary Trends in Psychology (3)

Prerequisite: PSY 150; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Trends and issues in current psychological theories and systems.

PSY 427. Introduction to Psychological Testing (3)

Prerequisites: PSY 320/L; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Basic concepts of psychological measurement as applied to the construction, evaluation and use of group and individual tests of intelligence, aptitude, interest and

personality are studied. Demonstrations of the administration, scoring and interpretations of standardized tests are provided.

PSY 430. Theories of Personality (3)

Prerequisites: PSY 370/L; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Basic principles of science as applied to the study of personality. Current theories of personality are analyzed in terms of structure, dynamics, and development. Characteristic research and research methods are covered.

PSY 432. Applied Intergroup Relations and Mediation (4)

Recommended preparation: PSY 345/L; *Prerequisite:* Completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Seminar examining theories of intergroup relations and their application in field settings, as well as principles of intergroup conflict mediation and their use. Students apply the theories and principles in supervised fieldwork and complete an approved community based project report, as either a service intern or a research intern.

PSY 436. Memory (3)

Prerequisites: PSY 321/L; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Introduces classical views as well as current theories of human memory. Different memory systems are examined. Topics include forgetting and retrieval of memory, repression of memory, eyewitness testimony, amnesia, and memory and aging. Covers cognitive processes involved in remembering.

PSY 440. Thinking (3)

Prerequisites: PSY 321/L and completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Survey of cognitive and symbolic processes, including concept formation, judgment, problem solving, creative activity, and states of consciousness.

PSY 442. Communication and Conflict Resolution (3)

Prerequisite: PSY 150; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Sharing of information and meanings in both verbal and nonverbal communication. Strategies of communication for active listening and sending of affective messages in many different contexts: couples, parent-child, group, work place. Examines differences in communication style as a function of gender, age, social class, position of dominance, etc.

PSY 445. Applications of Social Psychology (3)

Prerequisites: completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Seminar on social psychological methods, theories, and research findings as they apply to understanding and solving behavioral problems and social issues. Topics include physical and mental health, environmental behaviors, prejudice and discrimination, sports, consumerism, education, law, media, organizations, politics, diversity, and culture. Completion of projects requiring application of social psychology to a theoretical controversy or practical problem.

PSY 446. Issues in Social Psychology (3)

Prerequisites: PSY 345/L; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Critical analysis of basic and applied social psychological theories and issues and their application in contemporary society.

PSY 452. Contemporary Issues in Human (3)

Prerequisites: PSY 230; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Study of controversial topics in sexual behavior from a socio-psychological standpoint. Varying perspectives of heterosexuality, homosexuality, transexualism, polygamous marriage, non-marital sex, and related topics are presented. Both traditional and unconventional viewpoints toward these variant behaviors are examined.

PSY 453. Psychological Aspects of Human Sexuality (3)

Prerequisites: PSY 230; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Examines sexual behaviors and attitudes in contemporary society and includes the physiological basis of sexual function and dysfunction. A comprehensive and integrated approach to human sexuality.

PSY 454. Clinical Psychology (4)

Prerequisites: PSY 310; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Survey of varied approaches to psychotherapy and examination of assessment methods used in research and decision making in clinical settings. Historical development of the field of clinical psychology and related disciplines and current professional issues such as graduate programs, ethics and delivery of mental health services to the community are explored. Students are expected to complete 20 hours of field work in an agency related to their career objective.

PSY 455. Ethical, Professional and Legal Standards in Psychology (3)

Prerequisites: PSY 150; Upper Division or graduate-status in psychology; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Ethical issues relevant to teaching, research, and application of psychology are reviewed with an emphasis on the principles of the American Psychological Association's ethics code and related professional standards and guidelines.

PSY 460. Counseling and Interviewing (3)

Prerequisites: PSY 310; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Intensive study of current approaches to individual counseling and psychotherapy, particularly for students seeking preparation for graduate programs. Format allows students to present research findings, discuss current theories, and to experience therapy situations through role play and supervised counseling.

PSY 462. The Development of Language Thought in the Young Child (3)

Prerequisite: PSY 150; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Analysis of the processes of language and cognitive development and their interactions in young children. Considers problems, issues and implications of these processes for use with children. Evaluation of current theories. Project required.

PSY 464. Cognitive and Behavioral Intervention Techniques (3)

Prerequisites: Completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. *Recommended Preparation:* PSY 350. Consideration of some of the major issues and theories of human behavior change including a critical review of some of the important relevant experiments and areas of application. Includes techniques of modifying cognitive processes and behavior in the medical and clinical settings.

PSY 465. Psychology of Aging (3)

Prerequisites: PSY 365; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Comprehensive study of the later years of life including physical changes, social adaptations, psychological aspects and the interactions among these areas. Successful aging is explored as well as problem areas. Attention given to intervention strategies and to theoretical formulations. Students are expected to participate in ongoing relationships with the elderly.

PSY 470. Introduction to Psychobiology (3)

Prerequisites: PSY 402/L; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Consideration of the physiological, biochemical, anatomical and endocrinological aspects of behavior. Discusses traditional theories and current topics in psychobiology.

PSY 482. Human Factors in Systems Design (3)

Prerequisite: completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. *Recommended Preparation:* PSY 150. Study of applications that illustrate human factors principles and practices in the design of industrial systems, residential environments, and community facilities. Emphasizes designing for human performance and behavior.

PSY 483. Principles of Human Relations (3)

Prerequisite: PSY 150; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Examination of interpersonal communication and group interaction by using the classroom group as a microcosm. Emphasis on increasing interpersonal competence and on understanding the principles underlying such behavior.

PSY 483T. Tutorial in Human Relations (1)

Prerequisites: PSY 483; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Supervised projects and field study in the area of human relations.

PSY 486SOC. Social Science Career Internship (3)

Prerequisites: PSY 150; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. *Corequisite:* Enrollment in 1-unit of SBS486: Social Science Career Seminar (Contact College of Social and Behavioral Sciences' office). Social and behavioral science principles are applied to the work place. At least nine hours per week of supervised fieldwork are required. Students complete learning contracts and submit written reports related to their internship. (Crosslisted with GEOG, PAS, POLS, and SOC 486SOC) (See section on Academic Internships)

PSY 487. Psychology of Human-Computer Interaction (3)

Prerequisite: PSY 150; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Seminar focusing on the psychological and behavioral issues in computer-based systems. Principles of cognitive science, human factors and social psychology are applied to the study of human-computer communications processes. Research topics include voice input, interactive graphic systems, decision-aiding, artificial intelligence, perceptual influences on display image quality and user models of computer systems. Includes the critical evaluation of sample interface designs. No programming knowledge is required.

PSY 490/L. Quantitative Research Methods and Lab (3/1)

Prerequisites: PSY 250; 320/L; 321/L; and completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. *Corequisite:* PSY 490L. Focuses on quantitative methodologies, statistical analysis of data, the nature of knowledge, and writing professional papers in various fields related to mental health. Students read primary resources, conduct an empirical study, write a professional paper, and present their work in a common forum. Students also learn to enter, "clean" and transform data when necessary, to determine and apply appropriate statistical tests, and to perform advanced descriptive and inferential statistics on small and large data sets. Three hours lecture-discussion; three hours lab per week.

PSY 491/L. Qualitative Research Methods and Lab (3/1)

Prerequisites: Completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. *Corequisite:* PSY 491L. *Recommended Preparation:* PSY 250; 320/L; 321/L; 490/L. Students learn how to design and conduct mental health research that is qualitative in nature, based on interviews, videotapes, real-time observations, and other non-quantitative sources of data. Topics may include integrating qualitative data with theory, deciding on a coding scheme, coding of data, interpretation of coded data, writing up qualitative reports for theses, dissertations, publications, and presenting qualitative data at conferences. Three hours lecture-discussion; three hours lab per week.

PSY 492SOC. Professional Development the Social Sciences I (1)

Prerequisites: PSY 250; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Addresses issues associated with becoming a professional in the social sciences. Discussion of time management, study skills, the role of a researcher, decisions about one's area of interest in research, deciding on a university, presenting at professional conferences, writing a statement of purpose, Curriculum Vita, studying for the GRE, asking for letters of recommendation, among other topics. (Credit/No Credit Only)

PSY 493SOC. Professional Development in the Social Sciences II (1)

Prerequisites: PSY 250; PSY 492SOC; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Students learn, in detail, what it is like to be in a graduate program. Prepares students to be successful while in their graduate program by preparing them to write applications for Institutional Review Board (IRB) approvals for work with human and animal subjects, writing for publication, applying for financial aid, scholarships, fellowships, and other sources of funding. (Credit/No Credit Only)

PSY 495A-Z. Tutorial in Psychology (1-4)

Prerequisite: PSY 150; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Supervised individual projects in selected areas of interest. Six units maximum may be taken for credit. May be offered to qualified students as a substitute for a required lab or seminar. Sections meeting in small groups for reading and discussion will be offered in the following fields as schedule and staff allow: A-Teaching; B-Human Ecology; C-Counseling and Interviewing; D-Social Psychology; E-Human Factors; F-Animal Behavior; G-Teacher Training; H-Applied Cognitive Psychology; I-Electrophysiology; J-Neuropsychology; K-Student Leadership; M-Linear Models; S-Stress; T-Tutoring; Z-Zoo research.

PSY 496A-Z. Experimental Topics Courses in Psychology (1-4)

Prerequisite: PSY 150 and Completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Experimental courses in psychology with course content to be determined.

PSY 497. Proseminar in Psychological Research (1-3)

Prerequisite: PSY 150; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Introduction to psychological research and writing through supervised individual projects and field work. Six units maximum may be taken for credit.

PSY 498. Practicum in Psychology (1-3)

Prerequisite: Completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Supervised field work participation in approved community agencies. Written reports and regular conferences with instructor are required. Participation limited to 3 units in each of two semesters. Three credits maximum may be applied to the M.A.

PSY 499. Independent Study (1-3)

Prerequisite: PSY 150; completion of the Upper Division Writing Proficiency Exam with a score of 8 or higher. Six units maximum may be taken for credit.

Graduate

Note that 300-level courses in psychology and 401/L, 402/L, 403/L do not carry credit for a master's in psychology. Other 400-level courses in psychology may carry credit for a master's up to the limits defined by each graduate program. Students should see their graduate advisor for details.

PSY 513. Human Development: A Life Span (3)

Life span approach to the individual from infancy to old age with consideration of biological, psychological and social development. Case studies and other empirical observations focus on the emerging self and the factors that may challenge the development of a well integrated and flexible sense of self.

PSY 514. Advanced Experimental Psychology (3)

Prerequisites: PSY 321/L; 420/L. Critical review of current problems in the field of experimental psychology with emphasis on methods, data, and concepts specific to the experimental approach. Lab experience with techniques and equipment used in experimental studies of behavior. Two hours seminar, two hours lab per week.

PSY 520/L. Multivariate Statistical Methods and Lab (3/1)

Prerequisite: PSY 420/L. *Corequisite:* PSY 520L. Study of multiple-response, multi-factor regression analysis, multivariate analysis of variance, alternative models in factor analysis, and statistical classification methods. Background matrix algebra and computational techniques required in applications. Lab considers problem-solving techniques and advanced computational methods used to analyze multivariate data obtained in psychological experiments. Three hours seminar; two hours lab per week.

PSY 524/L. Multivariate Analysis Computer and Lab (3/1)

Prerequisites: PSY 420/L. *Corequisite:* PSY 524L. Analysis of multivariate research data in psychology using packaged computer programs. Covers standard techniques with applications in psychology. Choice of analytic technique is discussed, as are methods of screening data to assure appropriateness of techniques. Lab: provides direct experience with computing facilities for conducting multivariate analysis and computational methods extending statistical analysis provided by computer output. Three hours lecture-discussion, two hours lab per week.

PSY 530. Seminar: Theories of Personality (3)

Recommended Preparation: PSY 430. Advanced consideration of the theories of personality with special emphasis on trends and recent research findings.

PSY 592B. Seminar in Research Methodology (3)

Prerequisite: 15 units of classified graduate work and instructor consent. Students develop and carry out research projects in their elective areas and present their ideas, resources, and proposed methods of research to the class for critical discussion. Research report written to conform to journal format is required.

PSY 594A-Z. Tutorial in Psychology (1-4)

Prerequisite: Admission into the graduate program or instructor consent. Tutorial content varies by instructor and related areas of faculty specialty. Sections meet in small groups for reading and discussion to cover topics such as Cognition, Social Psychology, Traumatic Stress, Mental Disorders and Substance Dependence, Clinical Neuropsychology, and Human Factors Design. May be repeated for credit.

PSY 595A-Z. Experimental Topics Psychology (1-4)

Prerequisite: Admission into the graduate program or instructor consent. Advanced examination of selected studies in psychology with course content to be determined. Topics are presented from a psychological perspective encompassing theory, contemporary research, and

intervention alternatives. Course content varies by instructor and related areas of faculty specialty. Courses include such topics as Cognition, Social Psychology, Traumatic Stress, Mental Disorders and Substance Dependence, Pediatric Psychology, Clinical Neuropsychology, and Human Factors Design.

PSY 601. Psychological Service Systems (3)

Prerequisites: instructor consent. Study of the legal, ethical, and professional bases for psychological services. Professional roles in various settings are considered with emphasis on school psychological services. Explores design, development, and evaluation of alternative human service delivery systems.

PSY 602A. Mental Health Models (3)

Prerequisites: Classified graduate status and instructor consent. Historical, theoretical, and evaluative understanding of community and clinical models. Includes study of mental health legislation, funding, cost effectiveness and current issues in the delivery of mental health services. Analysis of types of Community Mental Health Programs.

PSY 605. Introduction to Health Psychology (3)

Prerequisites: Acceptance into the graduate program in clinical psychology or instructor consent. Health psychology is a specialization in clinical psychology devoted to the understanding of the relationships between psychological factors and health and illness. Covers the empirical foundations of several domains of health psychology (e.g., health behaviors and patient compliance, adjustment to chronic and terminal illnesses, substance addiction) and the therapeutic strategies employed for each (e.g., health behavior scheduling, pain management, cognitive-behavioral approaches toward sustained sobriety).

PSY 606. Seminar in Exceptionality (4)

Prerequisite: instructor consent. Study of children who are exceptional intellectually, physically, emotionally. Students are required to participate in ongoing programs with exceptional children.

PSY 610A, B. Advanced Psychopathology (3, 3)

Prerequisites: PSY 310. State of the science review of the principal methods for assessing psychopathology in children and adults. Discussion of the empirical and theoretical basis of the current DSM. PSY 610A covers child and adolescent psychopathology while PSY 610B covers adolescent, adult, and geriatric populations. Both courses include key issues in retrospective assessment, family history and cultural influences. For each symptom classification, presents current theoretical and empirical treatment approaches, including the psycho-pharmacological approach.

PSY 612. Contemporary Problems Child Psychology (3)

Prerequisite: PSY 313/L or equivalent and classified graduate status. Examination of current approaches to critical issues and theories relevant to an understanding of developmental processes. Discusses applications of results of these current approaches for psychological service to children.

PSY 622A/L. Research and Statistical Concepts in Psychological Services (3-3) and Lab (1-1)

Prerequisites: PSY 320/L; 321/L; admission to the Psychology Clinical Graduate Program. *Corequisite:* PSY 622AL. Conceptual integration of research and statistical methods appropriate for psychological service applications. Lab: provides direct experience with computing facilities in conducting multivariate analysis appropriate for psychological services applications. Three hours seminar; two hours lab per week.

PSY 622B/L. Research and Statistical Concepts in Psychological Services (3-3) and Lab (1-1)

Prerequisites: PSY 320/L; 321/L; admission to graduate program in School Psychology or Clinical Psychology. *Corequisite:* 622BL. Conceptual integration of research and statistical methods appropriate for psychological service applications. Lab: provides direct experience with computing facilities in conducting multivariate analysis appropriate for psychological services applications. Three hours seminar and two hours lab per week.

PSY 625A/L. Psychological Testing I and Lab (Individual)(3/1)

Prerequisites: PSY 427; admission to a Master's level Graduate Program in Psychology (Clinical, General Experimental or Human Factors). *Corequisite:* PSY 625AL. Theory and practice of individual assessment of children and adolescents, focusing on assessment of cognitive abilities and achievement. Supervised practice in test administration, interpretation, integration of data from multiple sources, and communication of results. Three hours lecture; two hours lab per week.

PSY 625 B/L. Psychological Testing II and Lab (Individual)(3/1)

Prerequisites: Admission to a Master's level Graduate Program in Psychology (Clinical, General Experimental or Human Factors). *Corequisite:* PSY 427; PSY 625BL. Theory and practice of individual assessment of children and adolescents, focusing on assessment of behavior and social-emotional functioning. Supervised practice in test administration, interpretation, integration of data from multiple sources, and communication of results. Three hours lecture; two hours lab per week.

PSY 625C/L. Child/adolescent Psychological Assessment and Lab (3/1)

Prerequisites: Admission to a Master's level Graduate Program in Psychology (Clinical, General Experimental or Human Factors). *Corequisite:* PSY 427; PSY 625CL. Theory and practice of individual assessment of intelligence and personality in non-clinical children and adolescents, as well as those referred for diagnostic assessment of attention, cognitive, learning, and/or social-emotional adjustment issues. Supervised practice in test administration, evaluation, integration of data from multiple sources, and communication of results. Three hours lecture; two hours lab per week.

PSY 625D/L. Adult Psychological Assessment and Lab (3/1)

Prerequisites: PSY 427; admission to a Master's level Graduate Program in Psychology (Clinical, General Experimental or Human Factors). *Corequisite:* PSY 625DL. Theory and practice of individual assessment of intelligence and personality in non-clinical adults and with those referred for diagnostic assessment of attention, cognitive, learning, and/or social-emotional adjustment issues. Supervised practice in test administration, evaluation, integration of data from multiple sources, and communication of results. Three hours lecture; two hours lab per week.

PSY 626. Problems of the Atypical Child (3)

Prerequisite: PSY 625C/L. Application of psychological principles to the study of the atypical child, including a survey of etiological theories. Testing the atypical child. Supervised activity required.

PSY 628. Fundamentals of Psychotherapy (3)

Prerequisite: PSY 460; instructor consent. Comprehensive review of representative theories of psychotherapy and behavioral readjustment with an evaluation of the assumptions underlying these theories. Emphasis on group work in a community mental health setting. (Some sections are reserved exclusively for M.A. students in the classified graduate programs)

PSY 629. Seminar in Behavior Modification (3)

Study of theory, ethics and practices of behavior therapy and behavior modification procedures. (Consult instructor regarding practicum option.)

PSY 631. Individual Case Studies in Psychology (3)

Prerequisite: PSY 430. Seminar designed to reach a better understanding of individual personality dynamics and relevant personality theories by a detailed examination of classic and contemporary cases.

PSY 640. Advanced Social Psychology I (3)

Extensive coverage of major research and theories advanced in contemporary social psychology, with emphasis on individual behavior as a function of social variables. Topics include interpersonal attraction, person perception and attributional processes, attitude formation and change, social motivation, aggression and altruism.

PSY 641. Advanced Social Psychology II (3)

Extensive coverage of major research and theories in contemporary social psychology with emphasis on group behavior. Topics include cooperation and competition, conformity, leadership, social learning, socialization and environmental social psychology.

PSY 646. Group Dynamics and Leadership (3)

Prerequisite: PSY 345/L and either 442 or 483. Study of interpersonal relations and leadership within various social organizations. Applied methods for group motivation and participation in activities toward accomplishing group goals. Supervised activity required.

PSY 655A-Z. Fieldwork in Psychological Services (1-5)

Prerequisites: instructor consent. Taught as an academic, university-based experience designed to accompany students' supervised practica, fieldwork, and/or internship. Course content varies as a function of the practicum setting (e.g., hospital, community agency) and client age level (e.g. children, adolescents, adults). May be repeated (up to 4 semesters) and taken for varying number of units (1-5).

PSY 656A-D. Seminar in Human Factors Principles and Applications (3-3-3-3)

Prerequisite: Graduate-standing or senior status and instructor consent. Courses cover current topics in human factors as a science and a profession. Letters "A-D" represent offerings of the courses with different clusters of topics. Clusters are updated frequently to keep current with research and practice in the field. Representative topics include human-computer interaction, job analysis and design, human error measurement and classification, applied systems theory, cognitive workload assessment, virtual work systems and distributed training models, and human movement dynamics.

PSY 660. Seminar in Counseling (3)

Prerequisite: instructor consent; PSY 460. Recommended Corequisite: PSY 660T. Examination of current theoretical approaches to counseling with emphasis on applications to individual and group, children, adolescents, and families. Some sections are reserved exclusively for M.A. students in classified graduate programs.

PSY 660T. Tutorial in Counseling (1)

Prerequisite: instructor consent; PSY 460. Tutorial option for PSY 660. Examination of the problems and techniques of counseling and interviewing. Dynamics of the interpersonal relationship between counselor and counselee in relation to current theories of personality. Intensive supervised individual activity and field work to supplement classroom lectures.

PSY 678A-B. Human Performance Research in Psychology (4-4)

Prerequisite: instructor consent. Principles and methods of measuring and evaluating human performance in system design. Topics include the application of lab and simulation techniques, field studies and psychometric and survey techniques to the description of human capabilities and limitations.

PSY 682. Subsystem Integration in Human Factors Design (4)

Prerequisite: instructor consent. Project-discussion course on the human factors problems and principles involved in the design of a community service system. Emphasis on incorporating the individual student's subsystem designs into a total integrated system.

PSY 683. Seminar in Human Relations (3)

Prerequisite: instructor consent; PSY 150. Social psychological analysis of interpersonal behavior. Analysis of group experience and research on variables involved in interpersonal and group behavior.

PSY 686. Human Factors in Complex Civil Systems (3)

Prerequisite: instructor consent. Involves the design of a major variable load-demand, responsive civil system. Emphasis devoted to failure-mode evaluation and analysis and principles of behavioral engineering. Three hours per week plus 1 hour supervised individual projects per week.

PSY 690A. Seminar in Sensation and Perception (3)

Prerequisites: Classified graduate status and instructor consent. Critical review of current literature, theories, methods and problems concerning sensory and perceptual processes.

PSY 690B. Seminar in Conditioning and Learning (3)

Prerequisites: Classified graduate status and instructor consent. Critical review of current literature, theories, methods and problems concerning conditioning and learning.

PSY 691A. Seminar in Cognition (3)

Prerequisites: Classified graduate status and instructor consent. Critical review of current literature, theories, methods, and problems concerning thinking processes and communication.

PSY 691B. Seminar in Emotion and Motivation (3)

Prerequisites: Classified graduate status and instructor consent. Critical review of current literature, theories, methods and problems concerning emotion and motivation.

PSY 692A. Seminar in Research Methodology (3)

Prerequisites: PSY 150; 321/L; 420/L; classified graduate status and instructor consent. Critical analysis of published research in terms of the underlying assumptions and stated hypothesis, adequacy of research design, appropriateness of statistical techniques employed, and the justification for conclusions and implications drawn.

PSY 696. Directed Graduate Research (3)**PSY 697. Directed Comprehensive Studies (3)****PSY 698C. Thesis or Graduate Project (3)**

Prerequisites: Classified graduate status and instructor consent. Course may be repeated once.

PSY 699. Independent Study (1-3)

Prerequisites: Written proposals for Independent Study in areas of special interest to the advanced student must be submitted for departmental approval prior to registration.