



# PSYCHOLOGY

**BACHELOR OF ARTS  
MINOR  
CERTIFICATE  
MASTER OF ARTS**

## PROGRAM DESCRIPTION

Psychology is both a natural and a social science in which people study human and animal behavior. As such, it is a broad discipline which includes both basic science and the application of science to everyday life. The Psychology Department at California State University, Sacramento offers both undergraduate and graduate degrees providing an opportunity for students to emphasize such areas as Applied Behavior Analysis, Clinical/Counseling Psychology, Cognitive Psychology, Developmental Psychology, Experimental Psychology, Industrial/Organizational Psychology, and Personality/Social Psychology.

Students finishing a BA degree in Psychology can qualify for a variety of positions which require an understanding of human behavior in business, education, and public service. Students finishing an MA degree in Psychology can qualify for similar positions at a higher level of responsibility. They can prepare for doctoral study or specialize in such areas as Counseling Psychology or Industrial/Organizational Psychology. They can meet the licensing requirements to become a Marriage, Family and Child Counselor; they can prepare themselves to teach at a community college. Many of our BA and MA graduates continue their education with doctoral studies at universities or professional schools throughout the United States and then find positions in teaching, research, and private practice.

## FACULTY

Arnold Golub, *Department Chair*

Bruce Behrman; Lee Berrigan; Lisa Bohon; Tammy Bourg; Helene Burgess; John Doolittle; Gerald Frincke; Robert Jensen; Nancy Kalish; Miriam LeGare; Robert Marrone; Joanne Marrow; Lawrence Meyers; Joseph Morrow; George Parrott; Harold Ries; Martin Rogers; John Schaeuble; Janet Shaban; Addison Somerville; Paul Verdone; William Westbook; Murray Work

Connie Chiechi, *Department Secretary*  
Department Office, PSY-350, 278-6254

## FEATURES

The Psychology Building contains both extensive human and animal research facilities and a Psychological Services Center; it provides excellent learning opportunities for students in experimental and counseling psychology. The six-room counseling suite is equipped for audio and video recording of therapy sessions. There are special labs available for research in perception and in neuroscience. A sound-deadened room is used for sleep research, and computer-controlled systems are available for programming animal research studies. Computers connected to various systems on the campus and at other CSU campuses are available for students to use, and there are also microcomputers for statistical analysis and for simulated human research studies.

Since independent study and fieldwork experience are an integral part of the psychology curriculum, the Psychology Department maintains close ties with the Sacramento community. Each year about 300 students do research projects or work in various organizations and community service agencies such as the Suicide Prevention Service, Planned Parenthood, and the California Youth Authority. Other students do independent study courses on topics of special interest to them, including biofeedback, neuroscience, cognitive development, visual perception, and sleep. The Psychology Society, a club open to all psychology students, and Psi Chi, the National Honor Society in Psychology, jointly sponsor guest speakers, provide peer advising for students, and engage in various social activities throughout the year.

## CAREER POSSIBILITIES

Personnel Manager • Marriage, Family, Child Counselor  
• Research Analyst • Test Validation and Development Specialist  
• Opinion Survey Designer • Research Director • Mental Health Worker • Drug Abuse Counselor • Employment Counselor • Outreach Worker • Human Factors Specialist • Personnel Analyst  
• Behavior Analyst • Training Development Specialist

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## MAJOR REQUIREMENTS • BA

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Total units required for BA: 124

Total units required for Major: 46 - 51

**Courses in parentheses are prerequisites.**

The Psychology Pre-major consists of PSYC 1, 5, 8, and 101. Admission to the Psychology major requires successful completion of these courses (or equivalent courses approved by the Psychology Department), each with a grade of "C-" or better, and with a minimum GPA of 2.25 in the four courses combined.

**Admission Procedure** – to become a Psychology major, students must apply to the Psychology Department by October 1 or March 1 of the semester during which the pre-major courses are being completed. The application form, available in the department office, requires that written verification of the pre-major courses be attached to it (see application form for examples of acceptable written verification). Due to the processing time required, admission to the major will generally not be effective until the second semester following submission of the application. Therefore, new Psychology majors may not be able to enroll in certain Psychology courses (e.g., PSYC 103, 106, 120, 190) via CASPER until their second semester in the major.

### A. Required Lower Division Courses (9 units)

- (3) PSYC 1\* Introductory Psychology: Basic Processes
- (3) PSYC 5\* Introductory Psychology: Individual & Social Processes
- (3) PSYC 8 Methods of Psychology (PSYC 1, 5; either course may be taken concurrently)

\*PSYC 1 and 5 may be applied to either the major or General Education requirements, but only one may be applied to both.

**Note:** PSYC 101, listed below, must also be completed before admission to the Psychology major program.

### B. Required Upper Division Courses (37 units)

- (4) PSYC 101 Foundations of Psychological Research: I (PSYC 1, 5, 8, pass ELM)
- (3) PSYC 168 Abnormal Psychology (PSYC 5)
- (3-4) Select one of the following methods courses:
  - PSYC 102\* Foundations of Psychological Research: II (PSYC 1, 5, 8, 101)
  - PSYC 120 Psychological Testing (PSYC 1, 5, 8, 101)
  - PSYC 181 Experimental Analysis of Behavior (PSYC 1, 171)
- \*Select PSYC 102 if planning to enter a graduate program in Psychology.
- (3-4) Select one of the following biological processes courses:
  - PSYC 111 Introduction to Physiological Psychology (PSYC 1)
  - PSYC 115 Introduction to Neuroscience (PSYC 1, 8, 101)
  - PSYC 116 Animal Behavior (PSYC 1)
  - PSYC 117 Psychopharmacology
- (6-8) Select two of the following learning and cognitive processes courses:
  - PSYC 103 Perception (PSYC 1)
  - PSYC 104 Learning Theories (PSYC 1, 8, 101)
  - PSYC 106 Motivation (PSYC 1, 5)
  - PSYC 110 Cognitive Psychology (PSYC 1)
  - PSYC 114 Psychology of Sleep (PSYC 1, 5)
  - PSYC 171 Applied Behavior Analysis (PSYC 1)

- (3) One of the following developmental processes courses:
  - PSYC 148 Child Psychology (PSYC 1 or 5)
  - PSYC 149 Psychology of Adolescence (PSYC 1 or 5)
  - PSYC 150 Psychological Aspects of Aging (PSYC 1 or 5)
- (6) Two of the following individual and social processes courses:
  - PSYC 108 Organizational Psychology
  - PSYC 130 Personality Theories (PSYC 1 or 5)
  - PSYC 145 Social Psychology (PSYC 1 or 5)
  - PSYC 166 Humanistic Psychology (PSYC 5)
- (3) Select one of the following capstone courses:
  - PSYC 107 Controversial Issues in Psychology
  - PSYC 190 History & Systems of Psychology (Senior [90+ units] or graduate status in Psychology)
  - PSYC 194 Cooperative Research
- (6-7) Electives - select two additional upper division Psychology courses numbered 100-190, including at least one course not listed in any of the above groups.

**Note:** Transfer students must take at least 15 units of Psychology courses in residence at CSUS; 12 of those units must be upper division.

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## MINOR REQUIREMENTS

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The Psychology Pre-minor consists of PSYC 1, 5, and 8. Admission to the Psychology minor requires successful completion of these courses (or equivalent courses approved by the Psychology Department), each with a grade of "C-" or better, and with a minimum GPA of 2.25 in the 3 courses combined. To become a Psychology minor, follow the **Admission Procedure** for the Psychology major listed above. The same deadlines and course enrollment restrictions apply to the minor.

The minor requires 20 units, ten of which must be upper division. Specific course requirements are:

- (3) PSYC 1\* Introductory Psychology: Basic Processes
- (3) PSYC 5\* Introductory Psychology: Individual & Social Processes
- (3) PSYC 8 Methods of Psychology (PSYC 1, 5; either course may be taken concurrently)
- (3-4) Select one of the following:
  - PSYC 103 Perception (PSYC 1)
  - PSYC 104 Learning Theories (PSYC 1, 8, 101)
  - PSYC 106 Motivation (PSYC 1, 5)
  - PSYC 110 Cognitive Psychology (PSYC 1)
  - PSYC 111 Intro. to Physiological Psychology (PSYC 1)
  - PSYC 114 Psychology of Sleep (PSYC 1, 5)
  - PSYC 115 Intro. to Neuroscience (PSYC 1, 8, 101)
  - PSYC 116 Animal Behavior (PSYC 1)
  - PSYC 117 Psychopharmacology
  - PSYC 119 The Aging Brain (PSYC 1, 8, 101)
- (6) Two of the following:
  - PSYC 108 Organizational Psychology
  - PSYC 130 Personality Theories (PSYC 1 or 5)
  - PSYC 145 Social Psychology (PSYC 1 or 5)
  - PSYC 148 Child Psychology (PSYC 1 or 5)
  - PSYC 149 Psychology of Adolescence (PSYC 1 or 5)
  - PSYC 150 Psychological Aspects of Aging (PSYC 1 or 5)
  - PSYC 166 Humanistic Psychology (PSYC 5)
  - PSYC 168 Abnormal Psychology (PSYC 5)
- (1-2) Elective - select one additional upper division Psychology course numbered 100-190

\*PSYC 1 and 5 may be applied to either the Minor or General Education requirements, but only one may be applied to both.

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## CERTIFICATE

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The Behavior Analysis Certificate program consists of a 16-unit BA certificate program. The program is taken concurrently with established degree requirements. Courses for the Certificate program are applicable toward course requirements for the degree.

### BA Certificate Program (16 units)

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|-----|-----------|--|
| (4) | PSYC 171  | Applied Behavior Analysis: Basic Principles (PSYC 1) |
| (4) | PSYC 181  | Experimental Analysis of Behavior (PSYC 1, 171)      |
| (4) | PSYC 184  | Applied Child Psychology (PSYC 171)                  |
| (4) | PSYC 195E | Fieldwork in Applied Behavior Analysis (PSYC 1, 171) |

To be certified, students must:

- have completed a baccalaureate degree with either a major or a minor in Psychology,
- achieve a 3.5 GPA in the BA Certificate Program courses, and
- pass a comprehensive written examination on the basic materials in the certification courses.

Additional certification information may be obtained from the Psychology Department office.

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## GRADUATE PROGRAM

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The Master of Arts program in Psychology is designed to provide specialized scholarly training in the field of psychology. Students may prepare for a variety of career goals. Advisors play an active role in the planning process, and students are strongly encouraged to consult with faculty on a continual and intensive basis as soon as they begin their studies in the program. Students who are interested in pursuing graduate work at CSUS in psychology must obtain a *Graduate Brochure* from the Psychology Department office.

Although the program is based on a core set of requirements, the form of the program provides for flexibility. While much material is covered in regular course offerings, the department recognizes that specialized study or the development of certain types of skills must take place on a one-to-one student-instructor basis. This includes research activities in the laboratory, field, or library; teaching activities at both the university and high school level; and volunteer work in community mental health and government agencies. Academic credit under individualized study or fieldwork designations is available for these purposes.

Students can plan their MA program for a variety of specializations. Specialty programs include Counseling Psychology, which meets the educational requirements for the Marriage, Family and Child Counseling (MFCC) license (see below); Industrial/Organizational Psychology; and the Doctoral Preparation track. Students in this latter track can create individual programs in conjunction with the faculty to prepare for doctoral programs in a variety of specialized fields, such as Clinical, Cognitive, Developmental, Experimental, Industrial/Organizational, Neuroscience, Quantitative, and Social/Personality.

The specialized degree option in Counseling Psychology is designed for students desiring the MFCC license. In addition to completing the core courses and the culminating requirement for the MA degree, students must also select the Counseling Psychology option and complete all of the courses meeting the educational requirements for the MFCC license as set forth by the licensing board. Students should note that this degree option is not appropriate for those planning to pursue doctoral study in Clinical Psychology; students committed to this goal should (a) complete a well-chosen set of academic courses (especially our quantitative and research courses), (b) obtain research experience, and (c) work very closely with faculty advisors.

Special laboratories are available for work in statistics, perception, and comparative psychology. The Psychology Building has a surgical facility with sophisticated monitoring equipment, animal quarters for species up to primates, and a shop. Individual research rooms for both animal and human experimentation are located on the first two floors of the building; the animal areas on the first floor have their own environmental control system. A sound isolation room with recording equipment is available for sleep research.

The Psychology Department also houses a Psychological Services Center, which provides both counseling services for the community and an opportunity for advanced graduate students to do counseling. In conjunction with the six-room counseling suite, there is a closed-circuit audio and video recording system, and videotape recorders are available for research on small groups and other social-psychological processes.

### Admission Requirements

Admission to graduate study in Psychology is selective, requiring completion of upper division undergraduate psychology courses in statistics and research methods, with at least "C" grades in those courses, as well as a balanced and academically strong group of upper division courses covering the various subareas of psychology (see the department's *Graduate Brochure* for more specific information). The acceptance model used by the department equally weights a composite grade point average (GPA), scores on the Graduate Record Examination (GRE), and letters of recommendation. Composite GPA involves both overall GPA and the GPA of the last 60 semester (90 quarter) units, the latter weighed twice that of the former. GRE scores from the three Aptitude and single Advanced Psychology exams are averaged. The three letters of recommendation are numerically scored on a scale from 1 (low) to 12 (high), and are averaged. Acceptance criteria are based upon applicant scores over the past several years, and will fluctuate somewhat from semester to semester as recent applicants are added to the pool.

Two adjunct methods of admission are available for applicants with complete files who are not selected via the above process: (1) sponsorship by a Psychology Department faculty member, providing the applicant meets the minimum university requirements for graduate study, and

(2) qualification through unclassified postbaccalaureate status, providing the applicant meets university requirements for that status. Students are advised to seek further information from the Psychology Department concerning these admission alternatives.

### Admission Procedures

Applicants must obtain a *Graduate Brochure* from the Psychology Department and complete both parts of the application process by March 1 for Fall semester admission or by November 1 for Spring semester admission. Each prospective graduate student, including CSUS graduates, must file the following with the Graduate Center:

- an application for graduate admission (from the CSU application booklet), and
- two sets of official transcripts from all colleges and universities attended, *other than CSUS*.

At the same time, each applicant must send the following directly to the **Psychology Department**:

- a completed application form from the Psychology Department *Graduate Brochure*,
- one set of official transcripts from all colleges and universities attended, *including CSUS transcripts*,
- scores from the General and Psychology portions of the Graduate Record Exam ( be aware that it takes approximately six weeks from the test date for scores to be forwarded), and
- three letters of recommendation from individuals who can evaluate the applicant's potential for successful graduate study.

Application materials must be received by March 1 (for Fall admission) or by November 1 (for Spring admission). Approximately six weeks after receipt of all materials, a decision regarding admission will be mailed to the applicant.

### Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in Admission Requirements,
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA,
- met the University's Writing Proficiency requirement,
- selected a Thesis or Project committee, and
- obtained the committee's approval of a proposal for the thesis or project.

The student fills out the Advancement to Candidacy form after planning a degree program in consultation with a Psychology advisor and members of the student's thesis/project committee. The completed form is then returned to the Graduate Center for approval.

### Degree Requirements

The Master of Arts in Psychology requires completion of at least 30 units of courses, each with a grade of "C" or better, and with a minimum GPA of 3.0. An outline of degree requirements follows:

#### A. Required Core Courses (10 units)

See department for official revisions.

- |     |          |   |
|-----|----------|---|
| (3) | PSYC 203 | Experimental Design I (Corequisite: PSYC 292) |
| (3) | PSYC 209 | Seminar in Systems of Psychology              |
| (3) | PSYC 210 | Theories of Personality                       |
| (1) | PSYC 292 | Laboratory                                    |

#### B. Other Course Requirements (16 units)

(16) Select 16 units of approved Psychology elective courses; at least 9 units must be 200-level courses\*

\*With advisor approval, a maximum of 6 units in related fields may be applied to this requirement .

#### C. Culminating Requirement (4 units)

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|-----|----------|------------------------|
| (4) | PSYC 500 | Culminating Experience |
|-----|----------|------------------------|

### Master of Arts, Counseling Psychology Option

The Counseling Psychology option is designed specifically for those students pursuing a career as a Marriage, Family and Child Counselor (MFCC). This program is designed to meet the requirements described in Section 4980.37 through Section 4980.41 of Chapter 1365 of Statutes 1986, as revised by Chapter 738 of Statutes 1987, regulating the licensing of Marriage, Family and Child Counselors by the State of California. Students must complete each of the courses listed below, or select appropriate courses where a choice is indicated. Further, students must designate the Counseling Psychology option when applying for Advancement to Candidacy.

Students are strongly advised to remain in communication with both the Psychology Department and the licensing board, since licensing requirements may change. Thus, the list of courses shown below for the Counseling Psychology program is subject to modification. Students should contact the Psychology Department for revisions in either courses or academic units. The revised department listing, not this Catalog listing, is official.

#### A. Required Core Courses (10 units)

See department for official revisions.

- |     |          |   |
|-----|----------|---|
| (3) | PSYC 203 | Experimental Design I (Corequisite: PSYC 292) |
| (3) | PSYC 209 | Seminar in Systems of Psychology              |
| (3) | PSYC 210 | Theories of Personality                       |
| (1) | PSYC 292 | Laboratory                                    |

#### B. Required Courses (33 units)

See department for official revisions.

- |     |          |  |
|-----|----------|--|
| (3) | PSYC 201 | Professional Issues in Psychology                                      |
| (3) | PSYC 206 | Tests & Measurement (PSYC 120 or equivalent experience)                |
| (3) | PSYC 223 | Techniques of Counseling & Therapy (PSYC 168)                          |
| (3) | PSYC 224 | Theories of Counseling & Psychotherapy (PSYC 168)                      |
| (3) | PSYC 225 | Theories & Techniques of Marriage, Family & Child Counseling <b>OR</b> |
|     | EDC 234# | Seminar: Marriage & Family Counseling                                  |



- (2) PSYC 227 Pre-Practicum (PSYC 223, 224)
- (4) PSYC 229 Practicum Evaluation (PSYC 223, 224, 227; Corequisite: PSYC 228)
- (3) PSYC 235 Counseling of Multicultural Groups
- (3) PSYC 251 Developmental Processes (PSYC 148 or 149)
- (3) PSYC 253 Child Therapy
- (3) PSYC 268 Advanced Psychopathology **OR**  
EDC 231# Pathology & Diagnosis

**C. Practicum Requirement (8 units)**

See department for official revisions.

- (8) PSYC 228\* Practicum in Counseling & Psychotherapy (PSYC 223, 224, 227; Corequisite: PSYC 229)

**D. Culminating Requirement (4 units)**

- (4) PSYC 500 Culminating Experience

**Additional Courses for MFCC License**

- (3) PSYC 236 Theories & Techniques of Sexual Counseling (PSYC 134 and a course in counseling theory)
- (3) PSYC 250 Alcohol & Chemical Substance Dependency: Detection & Treatment **OR**  
EDC 233# Substance Abuse & the Family
- (1) PSYC 252 Child Abuse & Neglect
- (1) PSYC 254 Spouse/Partner Abuse

\* Students enrolling in PSYC 228 must have professional liability insurance in force with minimum limits of \$1 million per incident and \$3 million per year; contact the Psychology Department office or the Graduate Coordinator for more information about this requirement.

# Students are encouraged to meet with faculty advisor prior to registration. Not more than two EDC courses may be taken.

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## LOWER DIVISION COURSES

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**1. Introductory Psychology: Basic Processes.** Physiological psychology, comparative psychology, learning, motivation, sensation and perception, and selected other topics. Requires three hours of participation as an experimental subject. 3 units. (CAN PSY 2)

**5. Introductory Psychology: Individual and Social Processes.** Developmental psychology, personality, social psychology, maladaptive behavior, individual differences, and selected other topics. Requires three hours of participation as an experimental subject. 3 units.

**8. Methods of Psychology.** An introduction to methods of the science of psychology. The topics include psychology as a way of knowing, the role of science in psychology, the nature of psychological research, research ethics, psychological literature and report writing, psychological measurement, and the design and analysis of case studies, survey research, field studies, correlational methods, and experimental methods. Requires three hours of participation as an experimental subject. **Prerequisites:** PSYC 1, 5; or PSYC 1 or 5 may be taken concurrently. 3 units.

**49. Scientific Thinking in Psychology.** Scientific thinking is the process of thinking logically, critically and creatively about real, as opposed to imaginary, problems. Students will develop an understanding of the scientific thinking process from a psychological perspective and will develop skill in scientific thinking. Topics will include the psychology of thought, logical operations and fallacies, convergent and divergent thinking, the relationship between language and thought, valid and invalid arguments, logic and probability, decision making, and hypothesis testing in the science of psychology. 3 units.

**96. Experimental Offerings in Psychology.** Intensive examination of a selected topic in psychology chosen in accordance with availability of staff and indications of interest by students. 1-3 units.

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## UPPER DIVISION COURSES

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**100. Contemporary Issues in Psychology.** An examination of current orientations toward the understanding of behavior. The course features a large number of Psychology Department faculty, each of whom presents a discussion of some issue which is currently being investigated in the field. A broad spectrum of psychological inquiry is covered. Requires three hours of participation as an experimental subject. **Prerequisite:** PSYC 1 or 5. 3 units.

**101. Foundations of Psychological Research: I.** Group and individual projects to collect and analyze behavioral data. Introduction to scientific research methods, conducting research studies, concepts of statistical significance and power, applications of descriptive and inferential statistics (including linear correlation and regression, *t* tests, and the general logic of analysis of variance), and writing research reports. Three hours lecture-discussion, three hours laboratory. **Prerequisites:** passing score on ELM; PSYC 1, 5, 8. 4 units.

**102. Foundations of Psychological Research: II.** Students plan and conduct projects in psychology using experimental, quasi-experimental and correlational methods; they evaluate published research and write proposals and reports for course projects, with attention to such issues as the reliability and validity of the behavioral methods used, the degree to which statistical assumptions can be met, the adequacy of statistical power, and the internal and external validity of the project. Techniques for research design and analysis are examined, including analysis of variance, multiple comparison tests, factorial designs, simple effects, the use of repeated measurements, mixed designs, analysis of covariance and multiple regression; other multivariate methods may also be discussed. Three hours lecture-discussion, three hours laboratory. **Prerequisites:** PSYC 1, 5, 8, 101. 4 units.

**103. Perception.** Examination of current theories and concepts in the area of perception. Subareas include classical approaches to perception, information processing, decision processes, memory, attention and motivation. **Prerequisite:** PSYC 1; PSYC 8, 101 recommended. 3 units.

**104. Learning Theories.** Examination of classical and contemporary theories of learning, and a sampling of experimental findings which bear directly on the theories. Some attention is given to theory construction in psychology. **Prerequisites:** PSYC 1, 8, 101. 3 units.

**106. Motivation.** A study of theories and experimental findings related to basic processes in animal and human motivation. **Prerequisites:** PSYC 1, 5; PSYC 8, 101 recommended. 3 units.

**107. Controversial Issues in Psychology.** Consideration of unresolved issues of interest to psychology and the general public, such as the use of animals in research and mind and health. Emphasis is on critical analysis (but not solution) of the issues as they are presented in public discourse. Course format is discussion, written reports and evaluations. 3 units.

**108. Organizational Psychology.** Application of psychological theory to the study of personal and environmental factors which influence such outcomes as performance, satisfaction, and the adjustment of individuals in modern organizations. Methods and procedures for maximizing these outcomes are considered. 3 units.

**110. Cognitive Psychology.** An examination of the basic concepts of cognitive psychology, including sensory storage, pattern recognition, attention, short-term memory, long-term memory, visual imagery, semantic memory structure, text processing, problem solving and decision making. The relations among artificial intelligence, mental modeling, and the simulation of cognitive processes will also be explored. **Prerequisite:** PSYC 1; PSYC 8, 101 recommended. 3 units.

**111. Introduction to Physiological Psychology.** An introductory overview of the psychobiological aspects of behavior. Emphasis is on the central and autonomic nervous systems and the endocrine system. Topics include physiological factors involved in sensation, perception, motivation, learning, emotion, social behavior, and maladaptive behavior. **Prerequisite:** PSYC 1; PSYC 8, 101 recommended. 3 units.

**114. Psychology of Sleep.** Consideration of research and theory relating to sleep. Emphasis is on recent research contributions which have resulted from the discovery of the existence of two fundamentally different types of sleep. Special attention given to the nature and function of dreaming and other mentation during sleep. Three hours lecture-discussion, three hours laboratory. **Prerequisites:** PSYC 1, 5; PSYC 8, 101 recommended. 4 units.

**115. Introduction to Neuroscience.** An investigation of the structure and function of the central nervous system including neuroanatomy, neurophysiology, and sensorimotor integration. The lectures and readings emphasize the empirical questions, techniques and methods used in neuroscience research. Laboratory exercises focus on gross- and micro-neuroanatomy, models of membrane electro-physiology, and motor system functioning. Three hours lecture-discussion, three hours laboratory. Cross-listed as BIO 115, and may be counted for credit only once. **Prerequisites:** PSYC 1, 8, 101; background in physiology and chemistry strongly recommended. 4 units.

**116. Animal Behavior.** Basic principles of animal behavior including the genetic, evolutionary and ecological mechanisms underlying courtship, reproduction, aggression, territoriality, communication and parental behavior; applied aspects of animal behavior; innate or naturally occurring behavior patterns necessary for survival in the natural environment; physiological, social and acquired aspects of animal and, secondarily, human behavior. **Prerequisite:** PSYC 1; background in biological sciences recommended. 3 units.

**117. Psychopharmacology.** An examination of the classification of psychoactive drugs and their mode of action. Included will be a coverage of the central nervous system in terms of the structure and function of physiological processes and properties and how psychoactive drugs exert their behavioral effects through an alteration of these processes. Both therapeutic and recreational drugs will be covered in terms of their use, abuse, effects, and dangers. Motivational aspects of drug use and methods for treating addiction will be covered. 3 units.

**119. The Aging Brain.** Lectures, readings from the research literature, and discussions focus on theories and models of aging in living systems and the techniques and methods used to investigate the anatomical, physiological and pathological states of the aging human brain. The effects of diet, disease and drug interactions on the aging brain are also addressed. **Prerequisites:** PSYC 1, 8, 101; background in physiology and chemistry strongly recommended. 3 units.

**120. Psychological Testing.** The construction, application, interpretation and evaluation of psychological tests. Tests used to measure general mental ability, specific abilities and aptitudes, personality, interests and attitudes are surveyed. **Prerequisites:** PSYC 1, 5, 8, 101. 3 units.

**130. Personality Theories.** A detailed examination of classical and contemporary personality theories such as those of Freud, Jung, Adler, Horney, Fromm, Skinner, Dollard and Miller, Rotter, Bandura, Kelly, Rogers, Maslow and May. Theories will be considered with respect to content, conceptual image of the individual, and current status. **Prerequisite:** PSYC 1 or 5. 3 units.

**134. Psychology of Human Sexuality.** This course covers the inherent biological, as well as the psychological, social and cultural similarities and differences between the sexes. Sexual myths and misconceptions are explored, and the sex roles and patterns of interaction currently practiced in our society are discussed. **Prerequisite:** PSYC 1 or 5. 3 units.

**135. Psychology of Multicultural Groups.** An examination of the major multicultural groups which have been assigned second class status in American society. This includes an overview of the historical, cultural, social, and economic factors which affect the behavior and adjustment of the culturally diverse individual. Attempts to assimilate the values of the dominant culture will be studied, as well as the resulting conflicts and the accompanying psychological and psychophysical disorders brought about by the stresses of racism, prejudice and discrimination. 3 units.

**136. HIV and AIDS: A Broad Perspective.** A survey of multiple aspects of the human immunodeficiency virus (HIV) and AIDS, including the threat—who is at risk globally and personally; the biology of HIV and the effects of HIV on human behavior; coping with the unknown; individual and societal responses to plagues and epidemics; issues of public health and civil liberties; issues of health care delivery and economics; risk behavior and uncertainty; the psychosocial effects of HIV on the infected, their friends, families, and caregivers; and education, the media and political issues. 3 units.

**137. Stress Management.** An examination of the history, causes and manifested effects of physical, chemical, microbiological, socio-cultural, and psychological stress upon humans. Techniques for recognizing and coping with frustration and stress will be explored. Emphasis on the development of skills to handle commonly encountered stress-producing situations. 3 units.

**145. Social Psychology.** Social psychological methodology, attitude formation and change, person perception, event perception, cultural influences, conformity, group influence, aggression, helping behavior, prejudice, interpersonal attraction, and social psychological applications. **Prerequisite:** PSYC 1 or 5. 3 units.

**148. Child Psychology.** An examination of behavioral and physiological development during the prenatal period, and behavioral, cognitive and social development during infancy and childhood. Theories, methods and empirical research will be studied. **Prerequisite:** PSYC 1 or 5. 3 units.

**149. Psychology of Adolescence.** Growth and development during the adolescent period and the interrelationships between adolescents and their culture are studied. Physical, psychological, social and educational problems and their implications are considered. **Prerequisite:** PSYC 1 or 5. 3 units.

**150. Psychological Aspects of Aging.** A developmental study of human aging emphasizing psychosocial, psychopathological, biological, intellectual and personality processes from a theoretical and research-oriented perspective. **Prerequisite:** PSYC 1 or 5. 3 units.

**151. Psychological Aspects of Death and Dying.** An examination of the beliefs, attitudes, and behaviors associated with death and dying. Topics covered include children's and adults' concepts of dying and death; causes and types of death; self-destructive behavior; grief and mourning in the dying person and their survivors; euthanasia and other legal and ethical issues; crosscultural and historical perspectives. 3 units.

**155. Interpersonal Relations.** Consists of a small experiential group exploring knowledge and skills leading to effectiveness in interpersonal relations and increased understanding of self and others. Includes structured exercises in interpersonal skills, decision making, conflict resolution and stress management. **Prerequisite:** permission of instructor. Graded Credit/No Credit. 3 units.

**157. Psychology of Women.** Covers historical and contemporary psychological theories about women's developmental and social processes. Includes the areas of sexuality, personality, learning, gender conditioning, social roles, and motivation. Current theories and techniques of therapy with women are included. **Prerequisites:** PSYC 5; WOMS 110, 120, or permission of instructor. 3 units.

**160. Homosexuality.** An exploration of the psychological world of gay men and lesbians. An examination of psychological theories, empirical research, and phenomenological perspectives. Covers psychological functioning, homophobia, disclosure, relationships, parenting, and aging. 3 units.

**164. Psychology and Judeo-Christian Theology.** An investigation of areas of conflict and complementarity between the disciplines of psychology and Judeo-Christian theology, with special consideration of recent attempts to integrate the two. **Prerequisite:** an introductory psychology course or permission of instructor. 3 units.

**166. Humanistic Psychology.** An exploration of the philosophy, subject and research methods of "third force" psychology, including its existential/phenomenological underpinning, states of consciousness, body/mind healing, East/West psychology, humanistic psychotherapy, and theories of self-esteem. Includes in its purview the works of Maslow, Susan Campbell, Rogers, Perls, Jung, Lowen and Laing, among others. **Prerequisite:** PSYC 5. 3 units.

**167. Psychology in Personnel Training and Development.** Application of psychological principles to problems of personnel training and development; techniques for determining training requirements, motivating trainees, providing feedback on trainee performance, and ensuring positive transfer of training to the job situation; personnel development programs. **Prerequisite:** PSYC 1 or 5. 3 units.

**168. Abnormal Psychology.** A detailed consideration of behavior disorders and maladaptive behavior: theories of causation, descriptions of the disorders, and strategies of various therapies. **Prerequisite:** PSYC 5; PSYC 1 recommended. 3 units.

**169. Personnel Psychology.** Psychological principles and techniques of selection, testing, interviewing, evaluation and counseling in the personnel programs of business and government. **Prerequisites:** PSYC 1 or 5, 8, 101. 3 units.

**170. Clinical Psychology.** An introduction to the field of clinical psychology: its history, aims, scope, methods, and ethical and legal problems. The student takes part in role playing and studies additional diagnostic therapeutic devices. **Prerequisite:** PSYC 5, 168; PSYC 1 recommended. 3 units.

**171. Applied Behavior Analysis.** Lectures and laboratory activities in basic principles of behavior, including methodological work with animals and humans. Introduction to theory, historical background, and philosophical assumptions relevant to behavior modification with individuals, including single subject design statistical analysis. Three hours lecture-discussion, three hours laboratory; laboratory includes a component of self-paced instruction. **Prerequisite:** PSYC 1. 4 units.

**181. Experimental Analysis of Behavior.** Extensive analysis of single subject experimental research on intermittent reinforcement of behavior, including complex schedules, stimulus control, generalization, verbal behavior and innate behavior. Three hours lecture-discussion, laboratory three hours. **Prerequisites:** PSYC 1, 171. 4 units.

**184. Applied Child Psychology.** Extensive study of, and practical experience with, applied behavioral analytic methods in the development, implementation, and assessment of treatment programs for children with autism and hyperactivity, parent-child difficulties, and school-related problems. Lecture three hours, laboratory three hours. **Prerequisite:** PSYC 171. 4 units.

**185. Psychology of Exceptional Children.** Examines characteristics, special needs, and problems of children who differ from the group norm because of their level of abilities, physical handicaps, or other deviations. **Prerequisite:** PSYC 1. 3 units.

**190. History and Systems of Psychology.** Covers the development of the various schools and systems of psychology, and their philosophical roots, interrelationships and differences. Normally taught with a seminar or proseminar format. **Prerequisites:** Senior (90+ units) or graduate status in Psychology. 3 units.

**192. Laboratory.** Controlled observations or organized research projects conducted in relation to the content of a regularly scheduled course. This multiple purpose laboratory is offered as needed, and may be taken only in conjunction with the appropriate, regularly scheduled course. 1 unit.

**193. Fieldwork Evaluation.** Students doing fieldwork in various community agencies will meet as a group, as well as individually, with their instructor to discuss their fieldwork experiences and significant issues which they are facing in their agency placements. May be repeated once for credit and a third time if another agency is involved. **Corequisite:** PSYC 195F or 195G. Graded Credit/No Credit. 1 unit.

**194. Cooperative Research.** Students work cooperatively on a psychological research project under faculty supervision. Requires approval of the instructor and the department chair. May be repeated once for credit. 1-6 units.

**195A. Fieldwork in the Teaching of Psychology.** Supervised experience in various educational and instructionally related tasks, such as leading discussion groups, setting up and presenting demonstrations, constructing and scoring tests, and tutoring, at selected educational institutions in the Sacramento area. Requires approval of the instructor and the department chair. May be repeated once for credit. Graded Credit/No Credit. 1-6 units.

**195B. Fieldwork in Child Observation.** Supervised observation of preschool children in a formal school setting. Requires approval of the instructor and the department chair. May be repeated once for credit. **Prerequisite:** PSYC 148 or equivalent. Graded Credit/No Credit. 3 units.

**195C. Fieldwork in Industrial and Organizational Psychology.** Supervised work experience at an appropriate level in business and governmental organizations. Requires approval of the instructor and the department chair. May be repeated once for credit. Graded Credit/No Credit. 1-6 units.

**195E. Fieldwork in Applied Behavior Analysis.** Supervised practice using behavior modification in field settings such as schools, hospitals and other institutions. Includes data gathering and paper presentations. Requires approval of the instructor and the department chair. May be repeated once for credit. **Prerequisites:** PSYC 1, 171. Graded Credit/No Credit. 1-4 units.



**195F. Fieldwork in Community Psychology.** Supervised experience in various community and governmental agencies, such as the Suicide Prevention Service, Planned Parenthood, and the California Youth Authority. The experience must be of an applied psychological nature, determined collectively by the agency, the supervising faculty member, and the student. Requires approval of the instructor and the department chair. May be repeated once for credit and a third time if another agency is involved. Graded Credit/No Credit. 1-4 units.

**195G. Fieldwork.** Projects in contemporary areas of psychology under the supervision of one or more faculty. Requires approval of the instructor and the department chair. May be repeated once for credit. Graded Credit/No Credit. 1-6 units.

**196. Experimental Offerings in Psychology.** Intensive examination of a selected topic in psychology chosen in accordance with availability of staff and indications of interest by students. 3 units.

**199. Special Problems.** Individual projects or directed reading. Requires approval of the instructor and the department chair. 1-6 units.

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## GRADUATE COURSES

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All graduate courses share the following prerequisites:

- A bachelor's degree in Psychology, or satisfactory completion of PSYC 101 and 102, or their equivalents.
- Other upper division psychology courses consistent with the admission requirements for the MA program (as described in the department's *Graduate Brochure*).
- Permission of the instructor.

**201. Professional Issues in Psychology.** Comprehensive treatment of the practice of psychology in terms of ethical and legal issues. Topics to be covered include ethical considerations in the treatment of clients and human subjects, confidentiality, interaction with the legal system, and disseminating the results of professional activities. 3 units.

**202. Research Methods in Psychology.** Covers a variety of methods used by psychologists to design, analyze, and interpret research. Experimental, field, and correlational approaches will be included. Both univariate and multivariate approaches will be covered. 3 units.

**203. Experimental Design I.** Methodology and statistical analysis applied to psychological research, including the logic of statistical inference, analysis of variance, multiple comparison tests, factorial experiments, simple effects, the use of repeated measurements, mixed designs, and statistical power considerations. **Corequisite:** PSYC 292. 3 units.

**204. Experimental Design II.** Methodology and statistical analysis applied to psychological research, including multiple and partial correlation, stepwise regression, the use of coded variables, analysis of covariance, nonorthogonal designs, multivariate analysis of variance, and discriminant analysis. **Prerequisite:** PSYC 203. 3 units.

**205. Multivariate Methodology.** Multivariate techniques applied to psychological research, including canonical correlation, multivariate analysis of variance, discriminant analysis, factor analysis, multidimensional scaling, cluster analysis, and the data assumptions required for these techniques. **Prerequisite:** PSYC 203; PSYC 204 recommended. 3 units.

**206. Tests and Measurement.** Examines the administration, interpretation, and application of psychological tests used by behavioral scientists in clinical, educational, organizational, and other settings. Test development, reliability and validity, and legal considerations will be discussed. 3 units.

**209. Seminar in Systems of Psychology.** A historical review of the systems of thought which led to modern psychology. An examination of current psychological systems and their development. Factors that differentiate psychological systems will be studied. 3 units.

**210. Theories of Personality.** A study of the role of personality theory in the field of psychology, and an examination of the current theories. 3 units.

**214. Current Literature in Learning and Motivation.** Analysis of selected current articles on theory and research in such journals as the *Journals of Experimental Psychology* and *Psychological Review*, with written and oral critiques. **Prerequisite:** PSYC 104, 106, or equivalent. 3 units.

**215. Current Literature in Abnormal and Clinical Psychology.** Analysis of selected articles on theory and research in such journals as the *Journal of Abnormal Psychology* and the *Journal of Clinical Psychology*, with written and oral critiques. **Prerequisite:** course-work in abnormal and theoretical psychology. 3 units.

**216. Current Literature in Personnel and Organizational Psychology.** Analysis of selected current articles on theory and research in such journals as the *Journal of Applied Psychology*, *Personnel Psychology*, and *Organizational Dynamics*, with written and oral critiques. **Prerequisite:** coursework in personnel and organizational psychology. 3 units.

**217. Current Literature in Personality and Social Psychology.** Analysis of selected current articles on theory and research in such journals as the *Journal of Personality and Social Psychology*, the *Journal of Personality* and the *Journal of Experimental Social Psychology*, with written and oral critiques. **Prerequisite:** coursework in personality and social psychology. 3 units.

**223. Techniques of Counseling and Therapy.** Presents the basic assumptions which underlie the techniques of counseling/therapy. Techniques of therapy which have been broadly substantiated by empirical studies are discussed. Representative and typical methods and techniques of dealing with clients from the first session until the closing of therapy (termination) are presented. **Prerequisite:** PSYC 168. 3 units.

**224. Theories of Counseling and Psychotherapy.** Intensive analysis of major contemporary psychotherapeutic schools of thought. Emphasis upon psychoanalytic, client-centered, behavioral, and other well-established theories of counseling and psychotherapy, secondary emphasis to more recently emerging psychotherapeutic approaches. **Prerequisite:** PSYC 168. 3 units.

**225. Theories and Techniques of Marriage, Family, and Child Counseling.** Covers marriage, family, and child counseling theory and practice applicable to counseling couples and families. A variety of theoretical approaches are included: object relations, family systems/communication, structural and strategic models. **Note:** May substitute EDC 234. **Prerequisite:** graduate coursework covering theories and techniques of individual psychotherapy. 3 units.

**227. Pre-Practicum.** Introduction to the practice of counseling and therapy through taped sessions, audio-visual techniques, observation through a one-way mirror, and didactic discussion. **Prerequisites:** PSYC 223, 224. 2 units.



**228. Practicum in Counseling and Psychotherapy.** Supervised practice in counseling individuals, couples and families with personal, marital, family, vocational and educational problems. May be repeated once for credit. **Prerequisites:** PSYC 223, 224, 227. **Corequisite:** PSYC 229. Graded Credit/No Credit. 4 units.

**229. Practicum Evaluation.** Students will meet on a one-to-one basis with the instructor to plan and evaluate effective intervention strategies and techniques for counseling clients. May be repeated once for credit. **Prerequisites:** PSYC 223, 224, 227. **Corequisite:** PSYC 228. Graded Credit/No Credit. 2 units.

**235. Counseling of Multicultural Groups.** Presents an overview of the historical, cultural, social and economic factors which affect the behavior and adjustment of multicultural individuals and families. Includes a study of the assimilation of dominant cultural values, as well as the psychological, social, educational and vocational conflict which (attempted) assimilation often engenders. The application of psychological skills in counseling and therapy with multicultural individuals will also be taught. 3 units.

**236. Theories and Techniques of Sexual Counseling.** Covers theories of counseling which are applicable for dealing with sexual problems. Since the purpose of the course will be to train those in the helping professions, such as psychologists, social workers, and counselors, to assist clients in coping with sexual dysfunctioning, treatment techniques will also be included. **Prerequisites:** graduate standing; PSYC 134; a course in counseling theory. 3 units.

**244. Sleep and Dreams.** An intensive analysis of theory and research in the psychophysiology of sleep and dreams. Major theoretical issues, selected current areas of empirical investigation, and related methodological problems will be examined through the use of books and published symposia as well as through journals such as *Sleep Research* and *Sleep*. 3 units.

**245. Workshop in Dreaming and Fantasy.** Through the use of his/her own dream and fantasy life, the student is expected to explore the processes of dreaming and fantasy as more general phenomena. Students are encouraged to become involved with their dreams and to relate them to their waking thoughts, feelings and activities, with assistance being provided to students who have poor dream recall. Reading/Discussion/Activity. 3 units.

**250. Alcohol and Chemical Substance Dependency: Detection and Treatment.** Examines various theories regarding the etiology of alcoholism and the abuse of other chemical substances, and the effects of biological, psychological, and sociocultural factors, as well as methods of detection and diagnosis. A variety of intervention techniques and treatment approaches, and how and when to use each, will be explored. This course provides the training required by Chapter 1365 of the Statutes of 1986 and Chapter 738 of the Statutes of 1987 for the MFCC, LCSW, RN and Psychologist licenses. **Note:** May substitute EDC 233. Lecture/Discussion. 3 units.

**251. Developmental Processes.** Study of the psychological processes underlying development throughout the life span. The course covers such topics as cognitive, language, emotional, and relationship development in terms of the individual. Attention will be given to functioning of the individual within social units such as the family. **Prerequisite:** PSYC 148 or 149. 3 units.

**252. Child Abuse and Neglect.** Provides students with appropriate training in the assessment and reporting of child abuse, as required by Chapter 1365 of the Statutes of 1986 and Chapter 738 of the Statutes of 1987. It will explore the etiology and various theories which have evolved regarding the abuse, neglect and sexual molestation of children. Biological, psychological, and sociocultural factors will be discussed. Methods of assessing, reporting, treating and preventing abuse, neglect and sexual molestation will be taught to increase the participant's sensitivity to physical and behavioral clues. A variety of treatment approaches will also be presented. 1 unit.

**253. Child Therapy.** Covers the etiology, nosology, diagnosis, evaluation, and treatment modalities, as well as the clinical symptomology, of various disorders. Extensive treatment models and strategies will be presented covering specific disorders of childhood. These include developmental and habit disorders, affective and emotional disorders, behavioral disturbances, academic problems, communication and language disorders, and special situations such as situational fears, child abuse, sexual abuse, and the impact of divorce on the family. Treatment modalities include: psychopharmacology, behavioral therapies, play therapy, family therapy, and individual psychotherapy. Prevention strategies will also be discussed. 3 units.

**254. Spouse/Partner Abuse.** Provides students with appropriate training in spousal or partner abuse assessment, detection and intervention as required by Chapter 1234, Stat. 1993 and by Business and Professions Code Section 4980.41(e). Biological, psychological and socioculture factors will be discussed. Methods of assessing, reporting, treating and preventing spousal or partner abuse will be taught to increase the participant's sensitivity to physical and behavioral clues. A variety of treatment approaches will also be presented. 1 unit.

**260. Theoretical Foundations of Industrial Psychology.** Major theories which have made significant theoretical contributions to industrial psychology are covered, along with areas of significant research which have provided the foundations of modern industrial psychology. **Prerequisite:** PSYC 169 or equivalent. 3 units.

**262. Theoretical Foundations of Organizational Psychology.** Major theories that made significant theoretical contributions to organizational psychology are covered, along with areas of significant research which have provided the foundations of modern organizational psychology. **Prerequisite:** PSYC 108 or equivalent. 3 units.

**268. Advanced Psychopathology.** Covers an advanced and detailed discussion of the description, etiology, development, dynamics and treatment of individuals with mental disorders. Since the DSM-IV is the major classification system used by mental health professionals, it will also be discussed. This manual describes essential features of a variety of disorders and outlines the basis on which an experienced clinician can differentiate one disorder from another. **Note:** May substitute EDC 231. 3 units.

**270. Psychopathology and Shakespearean Drama.** An in-depth analysis of selected characters in approximately ten of Shakespeare's plays. Students will undertake these analyses and make recommendations as if the characters were real patients being evaluated in a clinical setting. The theoretical approach is eclectic. A course in Shakespeare from the English Department is recommended. 3 units.

**283. Teaching of Psychology.** Covers the historical background of higher education, the social and administrative structure of colleges and universities, and the selection, preparation and planning of undergraduate psychology courses, particularly introductory courses. 3 units.

**292. Laboratory.** Controlled observations or organized research projects conducted in relation to the content of a regularly scheduled course. This multiple purpose laboratory is offered as needed, and may be taken only in conjunction with the appropriate, regularly scheduled course. May be repeated once for credit. 1 unit.

**293. Fieldwork Evaluation.** Students doing clinical and counseling fieldwork in various community agencies will meet as a group, as well as individually, with their instructor to discuss their fieldwork experiences and significant issues which they are facing in their agency placements. Issues of ethics and therapeutic confidentiality will be discussed. May be repeated once for credit and a third time if another agency is involved. **Corequisite:** PSYC 295F or 295G. Graded Credit/No Credit. 1 unit.

**294. Cooperative Research.** Students work cooperatively on a psychological research project under faculty supervision. Requires approval of the instructor and the department chair. May be repeated once for credit. 1-6 units.

**295A. Fieldwork in the Teaching of Psychology.** Supervised experience in various educational and instructionally related tasks, such as leading discussion groups, setting up and presenting demonstrations, constructing and scoring tests, and tutoring, at selected educational institutions in the Sacramento area. Requires approval of the instructor and the department chair. May be repeated once for credit. Graded Credit/No Credit. 1-6 units.

**295C. Fieldwork in Personnel and Organizational Psychology.** Supervised work experience at a professional level in business and governmental organizations. Requires approval of the instructor and the department chair. May be repeated once for credit. Graded Credit/No Credit. 1-6 units.

**295E. Fieldwork in Applied Behavior Analysis.** Supervised practice using behavior modification in field settings such as schools, hospitals, and other institutions. Includes data gathering and paper presentations. Requires approval of the instructor and the department chair. May be repeated once for credit. **Prerequisites:** PSYC 171, 184. Graded Credit/No Credit. 1-4 units.

**295F. Fieldwork in Clinical and Counseling Psychology.** Supervised experience in various community and governmental agencies, such as the Suicide Prevention Service, Planned Parenthood, and the California Youth Authority. The experience must be of an applied psychological nature, determined collectively by the agency, the supervising faculty member, and the student. **Note:** Students may be required to have professional liability insurance in force with minimum limits of \$1 million per incident and \$3 million per year; contact the Psychology Graduate coordinator and the supervising course instructor for more information about this requirement. May be repeated once for credit and a third time if another agency is involved. **Prerequisite:** Approval of the instructor and department chair. Graded Credit/No Credit. 1-4 units.

**295G. Fieldwork.** Projects in contemporary areas of psychology under the supervision of one or more faculty. Requires approval of the instructor and the department chair. May be repeated once for credit. Graded Credit/No Credit. 1-6 units.

**296. Experimental Offerings in Psychology.** Intensive examination of a selected topic in psychology chosen in accordance with availability of staff and indications of interest by students. 3 units.

**299. Special Problems.** Individual projects or directed reading. Requires approval of the instructor and the department chair. 1-6 units.

**500. Culminating Experience.** Thesis or Project. Open to students who have been advanced to candidacy and have secured the permission of the graduate coordinator. Graded Credit/No Credit. 4 units.