



psychology

bachelor of arts • minor • certificate • master of arts

Program Description

Psychology is the scientific study of human and animal behavior, cognition, and emotion. It is a broad discipline that includes both basic research and the application of research findings to everyday life. The Sacramento State Psychology Department offers an undergraduate program in General Psychology and graduate programs in Counseling Psychology, General Psychology (with specific emphasis on Psychology Doctoral Preparation), and Industrial/Organizational Psychology. At both the undergraduate and graduate levels, students may choose course work, fieldwork, and research experiences that allow them to emphasize such areas as Clinical/Counseling, Cognitive, Developmental, Industrial/Organizational, Social, Personality, and Applied Behavior Analysis.

The undergraduate program allows students to develop research skills and an understanding of the biological, cognitive, cultural, developmental and social aspects of human behavior. Students have the opportunity to apply their knowledge and skills in the form of faculty-supervised research projects and internship/fieldwork experiences.

Specializations

MA: Counseling / Industrial-Organizational Psychology / Doctoral Preparation

Career Possibilities

Community College Instructor • University Professor • Marriage and Family Therapist • Mental Health Worker • Drug Abuse Counselor • Career Counselor • Behavior Analyst • Personnel Analyst/Manager • Test Validation and Development Specialist • Training Specialist • Research Analyst • Research Technician

Faculty

Rachel August, Bruce Behrman, Lee Berrigan, Lisa Bohon, Helene Burgess, Jeffrey Calton, Rebecca Cameron, Marya Endriga, Arnold Golub, Lisa Harrison, Gregory Hurtz, Robert Jensen, Nancy Kalish, Gregory Kim-Ju, Joanne Marrow, Lawrence Meyers, George Parrott, Jianjian Qin, Martin Rogers, John Schaeuble, Oriel Strickland, Emily Wickelgren

Contact Information

Bruce Behrman, *Department Chair* • Tara Spainhower, *Administrative Support Coordinator* • Amador Hall 350 • (916) 278-6254 • www.csus.edu/psyc

Special Features

- The Psychology Department is housed in Amador Hall, a building designed primarily to accommodate the Department. As such, it contains extensive human and animal research facilities.
- A Psychological Services Center 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, providing counseling services for the community.
- Special labs are available for research in perception, cognition, human development, behavior analysis and neuroscience. A sound-deadened room is used for sleep research, and computer-controlled systems are available for programming animal research studies.
- Computers are available for data collection and analyses and for stimuli and survey development and presentation.
- Since independent study and fieldwork experiences 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, cognition, cognitive development, visual perception, social psychology, industrial/organizational psychology, 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 and engage in various social activities throughout the year.

Undergraduate Programs

With a BA in Psychology, graduates can qualify for positions requiring an understanding of human behavior in public service, education, or business. The undergraduate Behavior Analysis Certificate qualifies students for positions requiring the application of behavior analysis to children with developmental disabilities

Requirements • Bachelor of Arts Degree

Units required for Major: 46

Minimum total units required for BA: 120

Courses in parentheses are prerequisites.

Note: PSYC 001, PSYC 005, PSYC 008 and PSYC 101 must each be completed with a minimum grade of “C-.”

A. Required Lower Division Courses (9 units)

- (3) PSYC 001 * Introductory Psychology: Basic Processes
- (3) PSYC 005* Introductory Psychology: Individual and Social Processes
- (3) PSYC 008 Methods of Psychology (PSYC 001, PSYC 005; either may be taken concurrently)

*PSYC 001 and PSYC 005 may be applied to either the major or General Education requirements, but only one may be applied to both.

B. Required Upper Division Courses (37 units)

- (4) PSYC 101 Foundations of Psychological Research: I (Passing score on ELM; PSYC 001, PSYC 005, PSYC 008)
- (3) PSYC 100 Cross-Cultural Psychology (PSYC 005; Corequisite: PSYC 008)
- (3-4) Select one of the following methods courses:
 - PSYC 102* Foundations of Psychological Research: II (PSYC 001, PSYC 005, PSYC 008, PSYC 101)
 - PSYC 120 Psychological Testing (PSYC 001, PSYC 005, PSYC 008, PSYC 101)
 - PSYC 122 Qualitative Research in Psychology (PSYC 001, PSYC 005, PSYC 008, PSYC 101)
 - PSYC 181 Experimental Analysis of Behavior (PSYC 001, PSYC 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 Biological Psychology (PSYC 001; PSYC 008)
- PSYC 115 Introduction to Neuroscience (PSYC 001, PSYC 008, PSYC 101, background in physiology and chemistry strongly recommended)
- PSYC 116 Animal Behavior (PSYC 001)
- PSYC 117 Drugs and Behavior

(6-8) Select two of the following cognitive and learning processes courses:

- PSYC 103 Perception (PSYC 001; PSYC 008, PSYC 101 recommended)
- PSYC 104 Learning Theories (PSYC 001, PSYC 008, PSYC 101)
- PSYC 106 Motivation (PSYC 001, PSYC 005; PSYC 008, PSYC 101 recommended)
- PSYC 110 Cognitive Psychology (PSYC 001; PSYC 008, PSYC 101 recommended)
- PSYC 114 Psychology of Sleep (PSYC 001, PSYC 005; PSYC 008, PSYC 101 recommended)
- PSYC 171 Applied Behavior Analysis (PSYC 001)

- (3) Select one of the following developmental processes courses:
 - PSYC 148 Child Psychology (PSYC 001 or PSYC 005)
 - PSYC 149 Psychology of Adolescence (PSYC 001 or PSYC 005)
 - PSYC 150 Psychological Aspects of Aging (PSYC 001 or PSYC 005)
- (6) Select two of the following individual and social processes courses:
 - PSYC 108 Organizational Psychology
 - PSYC 130 Personality Theories (PSYC 001 or PSYC 005)
 - PSYC 145 Social Psychology (PSYC 001 or PSYC 005)
 - PSYC 168 Abnormal Psychology (PSYC 005; PSYC 001 recommended)
- (3) Select one of the following human diversity courses:
 - PSYC 135 Psychology of Multicultural Groups
 - PSYC 157 Psychology of Women (PSYC 001, PSYC 005, WOMS 110, WOMS 120, or permission of instructor)
 - PSYC 160 Homosexuality
 - PSYC 185 Psychology of Exceptional Children (PSYC 001)
- (3) Select one of the following capstone courses:
 - PSYC 107 Controversial Issues in Psychology (PSYC 008 and PSYC 101)
 - PSYC 190 History and Systems of Psychology (Senior [90+ units] or graduate status in Psychology)
 - PSYC 194 Cooperative Research
- (3-4) Electives - select one to two additional upper division Psychology courses numbered 100-199.

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

Sequencing Course Work for the Undergraduate Major:

The Psychology Department strongly recommends that Psychology Majors sequence their courses in the following manner to provide them with an optimal learning experience:

Freshmen and Sophomores: lower division GE requirements, PSYC 001, PSYC 005, PSYC 008 and electives

Juniors: upper division GE requirements, PSYC 101 (and PSYC 102 for graduate school aspirants), any upper division Psychology courses and electives

Seniors: upper division GE requirements, any upper division Psychology courses, Psychology capstone course and electives

It is important to choose courses in the sequence outlined above. Otherwise, there could be a delay in completion of the major and graduation. A brochure is available in the Psychology Department office with specific course recommendations depending on the desired career path of the student.

Requirements • Minor

Units required for the Minor: 20, 10 of which must be upper division.

Note: PSYC 001, PSYC 005, and PSYC 008 must each be completed with a grade of “C-” or better.

Specific course requirements are:

- (3) PSYC 001* Introductory Psychology: Basic Processes
- (3) PSYC 005* Introductory Psychology: Individual and Social Processes
- (3) PSYC 008 Methods of Psychology (PSYC 001, PSYC 005; either may be taken concurrently)
- (3-4) Select one of the following:
 - PSYC 103 Perception (PSYC 001; PSYC 008)
 - PSYC 104 Learning Theories (PSYC 001, PSYC 008, PSYC 101)
 - PSYC 106 Motivation (PSYC 001, PSYC 005, PSYC 008)
 - PSYC 110 Cognitive Psychology (PSYC 001, PSYC 008)
 - PSYC 111 Introduction to Biological Psychology (PSYC 001; PSYC 008)
 - PSYC 114 Psychology of Sleep (PSYC 001, PSYC 005; PSYC 008)
 - PSYC 115 Introduction to Neuroscience (PSYC 001, PSYC 008, PSYC 101)
 - PSYC 116 Animal Behavior (PSYC 001)
 - PSYC 117 Drugs and Behavior
- (6) Select two of the following:
 - PSYC 108 Organizational Psychology
 - PSYC 130 Personality Theories (PSYC 001 or PSYC 005)
 - PSYC 145 Social Psychology (PSYC 001 or PSYC 005)
 - PSYC 148 Child Psychology (PSYC 001 or PSYC 005)
 - PSYC 149 Psychology of Adolescence (PSYC 001 or PSYC 005)
 - PSYC 150 Psychological Aspects of Aging (PSYC 001 or PSYC 005)
 - PSYC 168 Abnormal Psychology (PSYC 005)
- (1-2) Elective Select one additional upper division Psychology course numbered 100-199

*PSYC 001 and PSYC 005 may be applied to either the Minor or General Education requirements, but only one may be applied to both.

Requirements • Certificate – Behavior Analysis

Units required for the Certificate: 16 units of specialized course work taken concurrently with established degree requirements. Courses for the Certificate program are applicable toward course requirements for the major.

- (4) PSYC 171 Applied Behavior Analysis (PSYC 001)
- (4) PSYC 181 Experimental Analysis of Behavior (PSYC 001, PSYC 171)
- (4) PSYC 184 Applied Child Psychology (PSYC 171)
- (4) PSYC 195E Fieldwork in Applied Behavior Analysis (PSYC 001, PSYC 171)

To receive the Sacramento State certification in Behavior Analysis, students must:

- complete a baccalaureate degree program with a major in Psychology or a related field;
- achieve a 3.5 GPA in the BA Certificate Program courses.

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

Graduate Programs

The Master of Arts program in Psychology is designed to provide specialized education in the field of psychology. With an MA in Psychology, one can qualify for positions similar to those associated with a BA, though at a higher level of responsibility. 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. MA students can prepare for doctoral study in any area of Psychology or specialize in areas such as Counseling or Industrial/Organizational Psychology. Students who are interested in pursuing graduate work at Sacramento State in psychology must obtain the *Graduate Brochure* from the Psychology Department office. This brochure is also available on the Sacramento State web site. The *Graduate Brochure* contains the department application procedures, including GRE requirements and the departmental application form.

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 and 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; and volunteer work in community mental health agencies, government agencies, schools, and/or businesses. Academic credit under individualized study or fieldwork designations is available for these purposes.

Specializations

- **Counseling Psychology:** The specialized degree option in Counseling Psychology is designed for students desiring the Marriage and Family Therapy (MFT) license. In addition to completing the core courses and the culminating requirement for the MA degree, students must select the Counseling Psychology option and complete all of the courses meeting the educational requirements for the MFT 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 latter goal should (a) complete a well-chosen set of other academic courses (including our quantitative and research courses), (b) obtain research experience, and (c) work very closely with faculty advisors.
- **Industrial/Organizational Psychology:** This specialized degree option is designed for students who wish to develop marketable career skills that allow them to apply psychological principles and research methods to work-related issues. Hiring classifications of our graduates include Test Validation and Development Specialist, Research Analyst, and Personnel Analyst. In addition to completing the core courses and the culminating requirement for the MA degree, students must also select the Industrial/Organizational Psychology option.

- **Doctoral Preparation:** In the Doctoral Preparation track, students 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, Educational, Experimental, Industrial/Organizational, Neuroscience, Quantitative, and Social Psychology.

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 at least five different core academic areas of psychology (e.g., biological, clinical, cognitive, developmental, social). The upper division psychological research methods/statistics requirement is met by Sacramento State PSYC 101 and PSYC 102 or their equivalents at other universities. Upper division research methods/statistics courses from other universities must be reviewed and approved for equivalency by the Department’s Graduate Coordinator.

The acceptance model used by the Department equally weighs 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 two 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.

An adjunct method of admission is available for applicants with complete files who are not selected via the above process: qualification through unclassified post baccalaureate status, providing the applicant meets university requirements for that status, takes specified course work, and maintains a specified minimum GPA. Students are advised to seek further information from the Psychology Department concerning this admission alternative. This method can be used only by applicants who have applied under the Standard Admission Plan described below, have generated a complete application file with the Department, have satisfactorily completed all of the required preparatory course work listed in the *Graduate Brochure*, and have fallen below the Department’s admission criterion.

Admission Procedures

Applicants must obtain a Psychology Department *Graduate Brochure* containing the departmental application materials, and must 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 Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 206, (916) 278-6470:

- an online application for admission; and

- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*.

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 Sacramento State* transcripts;
- official copies of the General and Psychology Graduate Record Examination* scores (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.

*The General GRE (available now only as a computerized test) must have been taken by the application deadline. If you intend to take a Psychology GRE that is scheduled at a time that falls shortly after our deadline, please contact the Department to determine if we will accept results of that exam.

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;
- selected a Thesis or Project committee;
- obtained the committee’s approval of a proposal for the thesis or project (as indicated by committee members’ signatures on the department’s thesis/project approval form); and
- passed the Writing Proficiency Examination (WPE) or secured approval for a WPE waiver.

The student will complete 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 Office of Graduate Studies for approval.

Requirements • Master of Arts Degree

Units required for the MA: 30, each with a grade of “C” or better

Minimum required GPA: 3.0

A. Required Core Courses (10 units)

- (3) PSYC 200 Methods in Empirical Psychology (PSYC 008, PSYC 101, PSYC 102)
- (3) PSYC 203 Experimental Design I (Corequisite: PSYC 292)
- (1) PSYC 292 Laboratory
- (3) Program Track course (see below for guidelines, and consult an advisor in order to determine the appropriate course)

Guidelines for Program Track Course

Students in the **Counseling Psychology** option should take PSYC 268 or EDC 231.

Students in the **Industrial/Organizational Psychology** option should take PSYC 209.

Pre-doctoral and General Master's students should select one of the following:

- PSYC 209 Seminar in Systems of Psychology
- PSYC 210 Theories of Personality
- PSYC 216 Current Literature in Personnel and Organizational Psychology (Course work in personnel and organizational psychology)
- PSYC 217 Current Literature in Personality and Social Psychology (Course work in personality and social psychology)
- PSYC 251 Developmental Processes (PSYC 148 or PSYC 149)

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 (4-6 units)

- (4) PSYC 500A Culminating Experience (advancement to candidacy)
- (2) PSYC 500B* Continuing Culminating Experience (PSYC 500A)

*Students must enroll in PSYC 500B if thesis/project is not satisfactorily completed while enrolled in PSYC 500A.

Requirements • Master of Arts Degree – Counseling Option

The Counseling Psychology option is designed specifically for those students pursuing a career as a Marriage and Family Therapist (MFT). The requirements for the program are specified by Section 4980.37 through Section 4980.41 of the Business and Professional Code of California, Chapter 13, Article 1, regulating the licensing of Marriage and Family Therapists 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.

Note: Students should contact the Psychology Department for revisions in either courses or academic units.

A. Required Core Courses (10 units)

- (3) PSYC 200 Methods in Empirical Psychology (PSYC 008, PSYC 101, PSYC 102)
- (3) PSYC 203 Experimental Design I (Corequisite: PSYC 292)
- (1) PSYC 292 Laboratory
- (3) PSYC 268 Advanced Psychopathology **OR** EDC 231 Diagnosis and Treatment Planning (EDC 214, EDC 216, EDC 280; approval as a candidate in the Counselor Education Program)

B. Required Courses (33-34 units)

- (3) PSYC 201 Professional Issues and Child Abuse Reporting
- (3) PSYC 206 Tests and Measurement
- (3) PSYC 210 Theories of Personality

- (3) PSYC 220 Psychopharmacology
- (3) PSYC 223 Theories and Techniques of Counseling and Psychotherapy (PSYC 168)
- (3) PSYC 225 Family Therapy **OR** EDC 234* Seminar: Marriage and Family Counseling (EDC 214, EDC 216, EDC 280; approval as a candidate in the Counselor Education Program. Corequisite: For MFCC Specialization: EDC 476)
- (2) PSYC 227 Pre-Practicum (PSYC 223)
- (3) PSYC 235 Counseling of Multicultural Groups
- (3) PSYC 236 Human Sexuality, Partner Abuse, and Couples Counseling
- (1) PSYC 250 Alcohol and Chemical Dependency: Detection and Treatment **OR** EDC 233 Substance Abuse and the Family
- (3) PSYC 251 Developmental Processes (PSYC 148 or PSYC 149)
- (3) PSYC 253 Child Therapy

C. Practicum Requirement (13 units)

See department for official revisions.

- (10) PSYC 400** Practicum in Counseling and Psychotherapy (PSYC 201, PSYC 223, PSYC 227, PSYC 268, and either PSYC 225, PSYC 235 or PSYC 253)
- (3) PSYC 410 Fieldwork in Clinical and Counseling Psychology (PSYC 201, PSYC 223, PSYC 227, PSYC 268, and either PSYC 225, PSYC 235, or PSYC 253)

D. Culminating Requirement (4 units)

- (4) PSYC 500A Culminating Experience (Advancement to candidacy)

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

** Students enrolling in PSYC 400 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.

Requirements • Master of Arts Degree – Industrial/Organizational Psychology Option

The field of Industrial/Organizational Psychology (I/O Psychology) covers all aspects of psychology in the workplace, including such sub-topics as: organizational development, leadership, performance evaluation, personnel selection, test validation and development, work teams, training and personality influences.

The Industrial/Organizational Psychology Concentration at Sacramento State is designed to give broad-based training in the relevant content areas as well as provide a strong methodological background. Students obtaining the Master's degree should be prepared for a career as a personnel manager, a testing specialist, a member of an I/O consulting group; they should also be prepared for further graduate work at the doctoral level. By meeting all of the requirements for the degree, students will have met the master's level educational competencies identified by the Society for Industrial and Organizational Psychology.

Students are strongly advised to keep in contact with professors in the Psychology Department for academic advising.

A. Required Core Courses (10 units)

- (3) PSYC 200 Methods in Empirical Psychology (PSYC 008, PSYC 101, PSYC 102)
- (3) PSYC 203 Experimental Design I (Corequisite: PSYC 292)
- (3) PSYC 209 Seminar in Systems of Psychology
- (1) PSYC 292 Laboratory

B. Required Courses (15 units)

- (3) PSYC 202 Research Methods in Psychology (General prerequisites for all grad courses. Corequisite PSYC 292) **OR**
- PSYC 204 Experimental Design II (PSYC 203)
- (3) PSYC 206 Tests and Measurement
- (3) PSYC 216 Current Literature in Personnel and Organizational Psychology (Course work in personnel and organizational psychology) **OR**
- PSYC 217 Current Literature in Personality and Social Psychology (Course work in personality and social psychology)
- (3) PSYC 260 Theoretical Foundations of Industrial Psychology (PSYC 169 or equivalent)
- (3) PSYC 262 Theoretical Foundations of Organizational Psychology (PSYC 108 or equivalent)

C. Required Supervisory Courses (6 units minimum)

- (1-6) PSYC 295C Fieldwork in Personnel and Organizational Psychology **AND/OR**
- (1-6) PSYC 299 Special Problems

D. Culminating Requirement (4-6 units)

- (4) PSYC 500A Culminating Experience (Advancement to candidacy)
- (2) PSYC 500B* Continuing Culminating Experience (PSYC 500A)

*Students must enroll in PSYC 500B if thesis/project is not satisfactorily completed while enrolled in PSYC 500A.

E. Recommended Courses (optional)

- (3) PSYC 205 Multivariate Methodology (PSYC 203; PSYC 204 recommended)
- (3) MBA 234 Industrial Relations

Lower Division Courses

PSYC 001. Introductory Psychology: Basic Processes. Physiological psychology, comparative psychology, learning, motivation, sensation and perception, and selected other topics. Requires three hours of participation as a research subject. 3 units.

PSYC 005. 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 a research subject. 3 units.

PSYC 008. Methods of Psychology. 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. **Prerequisite:** PSYC 001, PSYC 005; or PSYC 001 or PSYC 005 may be taken concurrently. 3 units.

PSYC 049. 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.

PSYC 096. 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.

Upper Division Courses

PSYC 100. Cross-Cultural Psychology. Examination of similarities and differences in human behavior, cognition, and emotion across cultures. Empirical evidence from cross-cultural research in the various areas of psychology, including biological, clinical, cognitive, developmental, social, personality, and industrial/organizational psychology, is evaluated with the purpose of developing a global perspective on the psychological processes underlying human behavior, cognition, and emotion. **Prerequisite:** PSYC 005. **Corequisite:** PSYC 008. 3 units.

PSYC 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. Lecture-discussion three hours; laboratory three hours. **Prerequisite:** Passing score on ELM; PSYC 001, PSYC 005, PSYC 008. 4 units.

PSYC 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. Lecture-discussion three hours; laboratory three hours. **Prerequisite:** PSYC 001, PSYC 005, PSYC 008, PSYC 101. 4 units.

PSYC 103. Perception. Examination of how information about the outside world is sensed and how that information is organized and interpreted to form perceptions. Vision and audition will be primarily examined, along with some coverage of the other senses. Topics may include psychophysical methods, basic physiology and function of sensory systems, perception of color and form, motion, distance, auditory patterns, body and limb position, temperature, pain, perceptual constancies, attention, perceptual learning, adaptation, and perceptual development. **Prerequisite:** PSYC 001, PSYC 008; PSYC 101 recommended. 3 units.

PSYC 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. **Prerequisite:** PSYC 001, PSYC 008, PSYC 101. 3 units.

PSYC 106. Motivation. Study of theories and experimental findings related to basic processes in animal and human motivation. **Prerequisite:** PSYC 001, PSYC 005; PSYC 008, PSYC 101 recommended. 3 units.

PSYC 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. Discussion format, written reports and evaluations. **Prerequisite:** PSYC 008 and PSYC 101. 3 units.

PSYC 108. Organizational Psychology. Exploration of the dynamics of human behavior in organizations, using the lens of psychological theory. Topics include: personality and attitudes in the work place, leadership, power and politics, organizational communication, and organizational structure. (Emphasis on understanding how to maximize satisfaction and performance at work.) 3 units.

PSYC 110. Cognitive Psychology. 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 001; PSYC 008, PSYC 101 recommended. 3 units.

PSYC 111. Introduction to Biological Psychology. 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 001; PSYC 008, PSYC 101 recommended. 3 units.

PSYC 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. Lecture-discussion three hours; laboratory three hours. **Prerequisite:** PSYC 001, PSYC 005; PSYC 008, PSYC 101 recommended. 4 units.

PSYC 115. Introduction to Neuroscience. Introduction to the structure and function of the nervous system including neuroanatomy, neurophysiology, and systems neuroscience. Lectures and readings emphasize the empirical questions, techniques and methods used in neuroscience research. Laboratory activities focus on nervous system structure and some of the specialized techniques used within the fields of cellular, systems, and behavioral neuroscience. Lecture-discussion three hours; laboratory three hours. **Prerequisite:** PSYC 001, PSYC 008, PSYC 101. Cross-listed as BIO 115; only one may be counted for credit. 4 units.

PSYC 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 001; background in biological sciences recommended. 3 units.

PSYC 117. Drugs and Behavior. Examination of the classification of psychoactive drugs and their mode of action. Covers effects of psychoactive drugs on central nervous system structure and function and on behavior; use, abuse, effects, and dangers of therapeutic and recreational drugs; motivational aspects of drug use, and methods for treating addiction. 3 units.

PSYC 118. Cognitive Neuroscience. Examines how the nervous system accomplishes cognitive functioning. Brain mechanisms of higher functions such as memory, attention, sensorimotor integration, decision making, and language will be covered. **Prerequisite:** PSYC 111, PSYC 115, BIO 115, or BIO 132. 3 units.

PSYC 120. Psychological Testing. 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. **Prerequisite:** PSYC 001, PSYC 005, PSYC 008, PSYC 101. 3 units.

PSYC 122. Qualitative Research in Psychology. Examines the philosophy underpinning the use of qualitative research and the methods and analyses strategies used in qualitative research. Methods may include interviews, focus groups, participant observation, and behavioral observation. Analyses strategies may include grounded theorizing, negative case analyses, developing case studies, and content coding. Issues pertaining to data accuracy and consistency will be examined, and the researcher's role in interpreting results. Students will complete research projects involving the collection and/or analyses of qualitative data.

Prerequisite: PSYC 001, PSYC 005, PSYC 008, PSYC 101. 3 units.

PSYC 130. Personality Theories. Detailed examination of classic 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 001 or PSYC 005. 3 units.

PSYC 134. Psychology of Human Sexuality. 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 001 or PSYC 005. 3 units.

PSYC 135. Psychology of Multicultural Groups. Examines the role of culture, race, ethnicity, gender, and social class in human development and behavior within diverse cultural groups. Presents sociocultural and ecological perspectives on human development, i.e., that individuals must be understood in the context of his or her culturally patterned social relations, practices, institutions, and ideas. Explores psychological issues that pertain to the major ethnic minority groups in the U.S. 3 units.

PSYC 137. Stress Management. Examination of the causes and manifested effects of various stressors such as physical, chemical, microbiological, socio-cultural, and psychological. 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.

PSYC 145. Social Psychology. Empirical examination of the emotion, behavior, and cognition of individuals in social situations. Topics can include: social psychology methods, social perception, social cognition, attitudes, persuasion, social identity, gender identity, prejudice and discrimination, interpersonal attraction, close relationships, conformity, compliance, obedience to authority, helping behavior, aggression, group processes, and social psychology applications. Multiple perspectives discussed. **Prerequisite:** PSYC 001 or PSYC 005. 3 units.

PSYC 148. Child Psychology. 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 001 or PSYC 005. 3 units.

PSYC 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 001 or PSYC 005. 3 units.

PSYC 150. Psychological Aspects of Aging. Developmental study of human aging emphasizing psychosocial, psychopathological, biological, intellectual and personality processes from a theoretical and research-oriented perspective. **Prerequisite:** PSYC 001 or PSYC 005. 3 units.

PSYC 151. Psychological Aspects of Death and Dying. 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; cross-cultural and historical perspectives. 3 units.

PSYC 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:** Instructor permission. Graded Credit/No Credit. 3 units.

PSYC 157. Psychology of Women. Contemporary psychological theories and issues related to the psychology of women in America and globally. Psychological theories may include but are not limited to feminism, cognitive-behavioral, self-object relations, humanistic, social learning and existential. Issues may include development, sexuality, mental health, psychotherapy, physical health, education, work, violence against women, gender inequality, multicultural perspectives, aging, parenting, criminal behavior, politics, sexual slavery, reproductive rights, religion, spirituality, and the arts. **Note:** A service course for WOMS. **Prerequisite:** PSYC 001, PSYC 005, WOMS 110, WOMS 120 or instructor permission. 3 units.

PSYC 160. Homosexuality. 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.

PSYC 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 001 or PSYC 005. 3 units.

PSYC 168. Abnormal Psychology. Detailed consideration of behavior disorders and maladaptive behavior: theories of causation, descriptions of the disorders, and strategies of various therapies. **Prerequisite:** PSYC 005; PSYC 001 recommended. 3 units.

PSYC 169. Industrial Psychology. Comprehensive overview of various human resources practices and policies, with an emphasis on people's psychological reactions to them. Topics include: recruitment, employee selection, training, employee compensation, legal aspects of employment decisions, and ethics in human resource management. **Prerequisite:** PSYC 001, PSYC 005, PSYC 008. 3 units.

PSYC 171. Applied Behavior Analysis. Introduction to theory, historical background, and philosophical assumptions relevant to behavior analysis with individuals. Lectures and laboratory activities in basic principles of behavior and methodology. Lecture-discussion three hours; laboratory three hours, laboratory includes a component of self paced instruction. **Prerequisite:** PSYC 001. 4 units.

PSYC 181. Experimental Analysis of Behavior. Extensive analysis of single subject experimental research on intermittent reinforcement of behavior, including complex schedules, stimulus control, generalization, and verbal behavior. Lecture-discussion three hours; laboratory three hours; laboratory may include a component of self paced instruction. **Prerequisite:** PSYC 001, PSYC 171. 4 units.

PSYC 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.

PSYC 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 001. 3 units.

PSYC 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. **Prerequisite:** Senior (90+ units) or graduate status in Psychology. 3 units.

PSYC 194. Cooperative Research. Students work cooperatively on a psychological research project under faculty supervision. **Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit. 1-6 units.

PSYC 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. **Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit. Graded Credit/No Credit. 1-6 units.

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

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

PSYC 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. **Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit.

Prerequisite: PSYC 001, PSYC 171. Graded Credit/No Credit. 1-4 units.

PSYC 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. **Note:** Requires permission of 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.

PSYC 195G. Fieldwork. Projects in contemporary areas of psychology under the supervision of one or more faculty. **Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit. Graded Credit/No Credit. 1-6 units.

PSYC 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.

PSYC 199. Special Problems. Individual projects or directed reading. **Note:** Requires permission of instructor and the Department Chair. 1-6 units.

Graduate Courses

All graduate courses share the following prerequisites:

- Satisfactory completion of PSYC 101 and PSYC 102, or their equivalents.
- Other upper division psychology courses consistent with the admission requirements for the MA program as described in the Psychology Graduate Program Admission Requirements section of this catalog.
- Instructor permission.

PSYC 200. Methods in Empirical Psychology. Philosophy of science, critical thinking in the design of research studies, and professional issues. Topics include: nature of science; observational, experimental, and case study designs; formulating research questions; measurement strategies; scaling and coding; internal and external validity; naturalism in research; quasi-experiments; archival research; physical traces; data collection; interpreting results; program evaluation; professional writing; and ethics. **Prerequisite:** PSYC 008, PSYC 101, PSYC 102. 3 units.

PSYC 201. Professional Issues and Child Abuse. 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, and privilege, duty to protect, dual relationships, child abuse and neglect and elder abuse assessment, reporting, treatment, and prevention, and disseminating the results of professional activities or scholarship. **Prerequisite:** Graduate student status. 3 units.

PSYC 202. Research Methods in Psychology. Focuses on one or more of the principal or emerging domains of psychological research design. Examples include but are not limited to field or quasi-experiments, meta-analytic designs, multivariate research, observational or unobtrusive research, and the designing of behavioral and/or self-report measures. Emphasis will be on the selection and application of the research design, the type of analysis that can be accomplished, and the interpretation of results. **Prerequisite:** General prerequisites for all grad courses. **Corequisite:** PSYC 292. 3 units.

PSYC 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.

PSYC 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.

PSYC 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.

PSYC 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.

PSYC 209. Seminar in Systems of Psychology. 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.

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

PSYC 211. Psychological Issues in Film. Examines films with psychological content. Students will explore various psychological topics and discuss whether selected films and film clips portray those topics in accordance with psychological research findings and the DSM-IV. Includes weekly lecture on research findings on selected topics and viewing of accompanying films/film clips. Topics will be drawn primarily from developmental and clinical psychology. Cross-listed as LIBA 211; only one may be counted for credit. 3 units.

PSYC 216. Current Literature in Personnel and Organizational Psychology. Analyzes 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. **Note:** May be repeated two times for credit. **Prerequisite:** Course work in personnel and organizational psychology. 3 units.

PSYC 217. Current Literature in Personality and Social Psychology. Analyzes 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:** Course work in personality and social psychology. 3 units.

PSYC 220. Psychopharmacology. Covers the neurobiological issues associated with clinical psychopharmacology and psychoactive substance use and abuse. An introduction to neurophysiology will be presented as it applies to understanding the effects of alcohol, chemical substances, and psychotherapeutic medications on the brain and behavior. Topics in clinical psychopharmacology will include theories underlying the biochemical origins of psychological disorders and the mechanisms of action and side-effects of medications used to treat these disorders. Substance dependency will be discussed with regard to the neurobiology of addiction. 3 units.

PSYC 223. Theories and Techniques of Counseling and Psychotherapy. Intensive analysis of major contemporary theories of psychotherapy and their corresponding therapeutic techniques. Primary emphasis upon psychoanalytic, client-centered, behavioral, cognitive, and other well-established theories and empirically supported techniques; secondary emphasis upon more recently emerging psychotherapeutic approaches. Basic assumptions of counseling technique and representative methods of dealing with clients from the first to last sessions are presented. **Prerequisite:** PSYC 168, Graduate student status. 3 units.

PSYC 225. Family Therapy. Theories and techniques of family therapy will be covered, beginning with basic concepts and assumptions of family therapy and characteristics of functional and dysfunctional families. Various family therapy approaches will be examined, including structural, strategic, communication, Bowenian, and Milan models. Family therapy techniques will be presented, such as genograms, reframing, use of metaphor and circular questioning. **Note:** May substitute EDC 234. **Prerequisite:** Graduate student status. 3 units.

PSYC 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. **Prerequisite:** PSYC 223. 2 units.

PSYC 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.

PSYC 236. Human Sexuality, Partner Abuse, and Couples Counseling. Covers material relevant to an understanding of human sexuality, including normal sexual development, sexual dysfunction, and treatment of sexual difficulties; spousal/partner abuse, including assessment and treatment; and couples counseling more generally. Approaches to couples counseling may include behavioral, cognitive-behavioral, ego analytic, process-experiential, problem and solution focused approaches, and psychoanalytic couples counseling. There will be some focus on the effectiveness of the various treatment approaches based on the empirical literature. **Prerequisite:** Graduate student status. 3 units.

PSYC 250. Alcohol and Chemical Dependency: Detection and Treatment. Covers the various definitions and theories of alcoholism, substance abuse and substance dependence disorders, the major classes of substances (e.g., stimulants, opioids), assessment and treatment approaches, differential diagnostic and comorbidity issues with other psychological disorders, and populations at highest risk for alcoholism, substance abuse and dependency problems. **Note:** May substitute EDC 233. Lecture/Discussion. 1 unit.

PSYC 251. Developmental Processes. Study of the psychological processes underlying development throughout the life span. 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 PSYC 149. 3 units.

PSYC 253. Child Therapy. Covers the etiology, nosology, diagnosis, evaluation, and treatment modalities, as well as the clinical symptomatology, 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.

PSYC 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.

PSYC 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.

PSYC 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.

PSYC 271. Advanced Applied Behavior Analysis. Designed both for graduate students who are interested in gaining knowledge about the fundamental principles of behavioral psychology and those who are pursuing certification as a Board Certified Behavior Analyst. Students will not only learn behavioral theory and the means by which behavior is increased, decreased, shaped and maintained, but they will learn to apply behavioral principles to more complex topics such as concept formation and novel behaviors. **Prerequisite:** Graduate status and instructor permission. 4 units.

PSYC 281. Advanced Experimental Analysis of Behavior. Advanced consideration of small-N research designs. Analysis of complex contingencies of reinforcement and stimulus control as they apply to such topics as perceiving, thinking, abstractions, and concept formation. In-depth examination of behavior analytic principles in relation to choice behavior and verbal behavior. **Prerequisite:** PSYC 271. 4 units.

PSYC 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.

PSYC 284. Advanced Applied Child Psychology. Advanced study and practical experience in application and teaching of Behavior Analytic methods of assessment, data collection, program construction and evaluation with children. Students will become proficient in conducting functional analyses, positive programming, constructing and implementing behavior intervention programs for behavior excesses (consistent with State of California laws) and to construct task analyses for behavior deficits. They will be required to develop didactic skills with respect to these various programs. Lecture three hours; Lab three hours. **Prerequisite:** Graduate status and instructor permission. 4 units.

PSYC 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. **Note:** May be repeated once for credit. 1 unit.

PSYC 294. Cooperative Research. Students work cooperatively on a psychological research project under faculty supervision. **Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit. 1-6 units.

PSYC 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. **Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit. Graded Credit/No Credit. 1-6 units.

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

PSYC 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. **Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit. **Prerequisite:** PSYC 171, PSYC 184. Graded Credit/No Credit. 1-4 units.

PSYC 295G. Fieldwork. Projects in contemporary areas of psychology under the supervision of one or more faculty. **Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit. Graded Credit/No Credit. 1-6 units.

PSYC 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.

PSYC 299. Special Problems. Individual projects or directed reading. Requires approval of instructor and Department Chair. 1-6 units.

PSYC 400. Practicum in Counseling and Psychotherapy. Supervised practice in counseling individuals, couples and families with personal, marital, family, vocational and educational problems. Students counsel clients and meet on a one-to-one and small group basis with the instructor to plan and evaluate effective interventions and counseling techniques. **Note:** May be repeated once for credit. **Prerequisite:** PSYC 201, PSYC 223, PSYC 227, PSYC 268 and one of the following: PSYC 225, PSYC 235 or PSYC 253. Graded Credit/No Credit. 5 units.

PSYC 410. Fieldwork in Clinical and Counseling Psychology. Supervised experience in various community and governmental agencies. 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. Students should contact the Psychology Graduate Coordinator and the supervising instructor for more information about this requirement. **Prerequisite:** PSYC 201, PSYC 223, PSYC 227, PSYC 268, and one of PSYC 225, PSYC 235 or PSYC 253. Graded Credit/No Credit. 1-4 units.

PSYC 500A. Culminating Experience. Completion of a thesis or project approved for the Master's degree. **Prerequisite:** Advanced to candidacy and permission of the graduate coordinator. Graded Credit/No Credit. 4 units.

PSYC 500B. Culminating Experience. Continuation of work on thesis or project. **Prerequisite:** PSYC 500A. Graded Credit/No Credit. 2 units.