

## Psychology

Psychology is concerned with the scientific study of human behavior and consciousness, and the applications of these findings to the areas of home, school work, and social relations. It covers topics such as learning, cognition, motivation, personality, psychophysiology, sexuality, group processes, cultural factors, and abnormal behavior. Psychology is an area for students interested in learning about the behavior of humans and other organisms.

The Department of Psychology provides a variety of opportunities for students. We have an undergraduate major that can be tailored as a strong liberal education, a preprofessional degree or as preparation for graduate study in psychology. In addition, we have two advanced degrees providing professional training in psychology. Our program gives considerable emphasis to psychology as an empirical science, including research design, data analysis and interpretation, and computer skills.

As preparation for graduate work in psychology, our undergraduate major is one of the strongest and most respected in the CSU System. Our better students do well in the Ph.D. programs into which they are often accepted. Our undergraduate program provides a solid background for liberal arts majors choosing to enter business or other more specialized vocations immediately after graduation.

## Faculty and Facilities

All full-time and some part-time members of the department hold Ph.D. degrees in psychology and many are licensed as psychologists for private practice by the state of California. Our faculty represents a wide range of theoretical orientations and interests that include most of the major areas in American psychology.

A comprehensive test library is maintained for programs in the testing and clinical areas. The department is equipped with a seventeen station computer lab which is networked to the departmental server and to the campus fiber optic network. Professors within the psychology department have very active research programs and are able to offer undergraduate and master's-level students the opportunity to participate in a variety of research projects. A computerized Bio-lab is also available for training and research in psychophysiological studies.

## Career Opportunities

In addition to learning theoretical views and research methods, students often have the opportunity to apply psychological principles of counseling and testing in community settings. Students who earn the M.S. degree obtain certification as school psychologists. There are openings in mental health, public schools, community colleges, and other agencies for these advanced students.

College of Science and Mathematics

## Department of Psychology

Aroldo Rodrigues, *Chair*

Sheri Osborn, *Administrative Support Coordinator*

Psychology and Human Services

Bldg., Room 234

(559) 278-2691

<http://psych.csufresno.edu>

## B.A. in Psychology

Pre-M.B.A. Option

## M.A. in Psychology

## M.S. in Psychology

## Minor in Psychology

## Pupil Personnel Credential with an Advanced Specialization in School Psychology

Recent surveys show that large numbers of psychology graduates are employed in business and administration, social services, and education. Significant numbers can also be found in the health care professions, biological sciences, and computer programming.

The B.A. degree does not train a person to work as a professional psychologist. However, a number of jobs related to psychology can be entered without advanced education. Some examples are employment interviewers, personnel managers, market researchers, management trainees, probation officers, and mental health workers.

Our 30-unit M.A. degree provides a strong background for further graduate study toward the doctoral (Ph.D.) degree. In the 78-unit M.S./School Psychology degree, students learn many clinical skills (psychotherapy, psychological assessment, etc.) that lead to employment possibilities in the schools and mental health settings.

Professional psychologists are employed in colleges and universities as instructors, researchers, and counselors. State and federal governments utilize psychologists in a variety of agencies and settings (mental hospitals, rehabilitation centers, prisons, employment testing, and personnel work). Finally, some psychologists are in private practice as counselors and psychotherapists, or consulting psychologists.



# Psychology

## Faculty

Aroldo Rodrigues, *Chair*  
 Christine Edmondson,  
*Undergraduate Adviser*  
 Marilyn S. Wilson, *Graduate Adviser*  
 Sergio Aguilar-Gaxiola Paul C. Price  
 Barbara H. Basden Jean M. Ritter  
 David R. Basden Matthew J.  
 Michael D. Botwin Sharps  
 Thomas E. Breen Michael J.  
 Karen T. Carey Thackrey  
 Beth A. Harn Ronald D.  
 Constance J. Jones Yockey  
 Robert V. Levine Lynnette C.  
 Terry G. Newell Zelezny  
 Karl M. Oswald

## Bachelor of Arts

### Degree Requirements

#### Psychology Major

Units

#### Major requirements ..... 45

- A. *Core Courses* (all required):  
 PSYCH 10, 42, 144 ..... (13)
- B. *Basic Knowledge and Skills*  
 (select 2): PSYCH 36,  
 60T, 145, 166 ..... (4-8)
- C. *Basic Applications* (select 1):  
 PSYCH 136, 162, 169, 173,  
 175, 176 ..... (3-4)
- D. *Advanced Applications* (select  
 1): PSYCH 143, 149,  
 177, 179 ..... (4)
- E. *Advanced Content* (select  
 2): PSYCH 154,  
 155, 156 ..... (8)
- F. *Advanced Processes* (select 2):  
 PSYCH 121, 122,  
 124, 125, 128 ..... (8)
- G. *Integration*:  
 PSYCH 182 ..... (4)
- H. *Advanced Topics* (select 1):  
 PSYCH 120T, 140T, 150T,  
 160T, 170T, 180T ..... (1-5)
- I. *Psychology Electives*  
 (see *Advising Note 5*)

#### General Education requirements ..... 51

#### Electives and remaining degree requirements ..... 24-27\*

(See *Degree Requirements*);  
 may be used toward a dual  
 major or minor.

#### Total ..... 120

\*This total indicates that 3 units of PSYCH 10 in G.E. Breadth D3 also may be applied to the psychology major. In addition, G.E. certified courses that are equivalent to PSYCH 10 and PSYCH 42 taken at another CSU campus or a public California community or junior college may be applied to the major. Consult the department advising office for additional details.

## Advising Notes

1. Students desiring to major in psychology must do the following before being permitted to enroll in restricted, 100-level psychology courses (courses with prerequisites):
  - a. formally apply to the major, at which time they will be placed in a pre-psychology major category, and
  - b. complete PSYCH 10, 42, and 144 (or their equivalents) with grades of *C* or better and have earned a cumulative grade point average of at least 2.0.

Students may apply for upper-division psychology major status in the Psychology Department Office during the semester in which they expect to successfully complete the core course requirements. Approval will be contingent upon satisfactory fulfillment of these requirements.

All students, including transfer students and students changing to the psychology major, must request the Psychology Department to screen their transcripts (to be provided by the student) for successful completion of the requirements before enrollment in restricted, 100-level psychology courses will be permitted. Currently enrolled students who wish to change to the psychology major must first obtain the change-of-major form in the north lobby, Joyal Administration Building.

2. Psychology majors may not receive General Education credit for G.E. Integration courses offered by the Department of Psychology.
3. *CR/NC* grading is not permitted in the psychology major.
4. General Education and elective units may be used toward a dual major or minor (see *Dual Major* or departmental minor). Consult the appropriate department chair, program coordinator, or faculty adviser for further information.
5. Students who complete all courses required in the major may be cleared with a minimum of 43 units for the psychology major or 62 units for the pre-M.B.A. option. Although not required, psychology electives may be applied toward the major and may be used to meet the required minimum total of 43 units for the psychology major or 62 units for the pre-M.B.A. option.

## Pre-M.B.A. Option

The pre-M.B.A. psychology major option is intended for students who wish to combine comprehensive training in the field of psychology with coursework preparing them for jobs in business and/or future graduate training in business administration. The option is aimed at two groups of students:

1. Students who wish to complete a major in psychology, while at the same time prepare for jobs in business, industry, and government that emphasize both psychology and business skills upon completion of their B.A. degree.
2. Psychology majors who wish to enter an M.B.A. or other business-related graduate program upon completion of their B.A. degree. The option is designed to allow students to complete many or all of the prerequisite courses required by typical M.B.A. programs, and all of those in the Craig program at Fresno State.

The option is especially designed for psychology majors who wish to apply for the Craig M.B.A. program at California State University, Fresno. By completing the requirements of the pre-M.B.A. option, students will generally be allowed to waive all of the Group 1 coursework usually required for the M.B.A. degree at Fresno State. Furthermore, students who maintain a GPA of 3.4 or more in their last 60 units and in the major, and who receive a suitable score on the GMAT, are reasonably assured of admission to the Craig M.B.A. program. Students not meeting these requirements will, however, also be considered and are encouraged to apply.

#### Psychology Pre-M.B.A. Option Units

#### Major option requirements ..... 64

- A. *Core Courses* (all required):  
 PSYCH 10, 42, 144 ..... (13)
- B. *Basic Knowledge and Skills*  
 (select 1): PSYCH 145 or  
 IS 50 *and* (select 1): PSYCH  
 36, 60T, or 166 ..... (4-8)
- C/D. *Applications*:  
 MKTG 100 and MGT  
 104; or MGT 110 ..... (6-7)
- E. *Advanced Content*  
 (select 2): PSYCH 154,  
 155, 156 ..... (8)
- F. *Advanced Processes*  
 (select 2): PSYCH 121,  
 122, 124, 125, 128 ..... (8)
- G. *Integration*:  
 PSYCH 182 ..... (4)

H. *Advanced Topics* (select 1):  
 PSYCH 120T, 140T, 150T,  
 160T, 170T, 180T ..... (1-5)

I. *Psychology Electives*  
 (see *Advising Note 5*)

J. *Additional pre-business requirements*: ECON 40,  
 50, ACCT 4A, FIN 120,  
 BA 174, MGT 124 ..... (20)

**General Education requirements..... 51**

**Electives and remaining degree requirements ..... 0-8\***

**Total ..... 120**

\* See footnote to the psychology major.

### Preprofessional Preparation

A psychology major is often used as preparation for other professions. For pre-professional programs in law, dentistry, medicine, and the ministry, see the *Preprofessional Preparation* units section and consult an adviser in the psychology department.

### Credential Programs

The Department of Psychology offers the M.S. degree. Degree requirements coincide with those of the Pupil Personnel Services Credential with an Advanced Specialization in School Psychology.

Application forms and advising are available through the coordinator of the School Psychology Program within the Psychology Department.

### Applied Behavior Analysis Training

Our Applied Behavior Analysis (ABA) program meets the academic content required for certification by the California Association for Behavior Analysis (Cal-ABA). People with this certification and a bachelor's degree can find employment in state-funded centers for the developmentally disabled. Behavior analysts and specialists design and implement behavior change programs in a variety of settings including homes, group homes, care facilities, and hospitals. Our training gives students necessary coursework in theoretical foundations, basic research, and applications for applied behavior analysis. Courses can be applied to both the psychology major and to the ABA training. The following classes comprise the training program:

#### Units

1. *Core Courses in Psychology*  
 PSYCH 10, 42, 144 ..... (13)

2. *Theory/Basic Processes/Basic Content*  
 PSYCH 121, 136, 155 ..... (11)

3. *Applications*  
 PSYCH 170T, 177 ..... (7)

4. *Field Work (recommended)*  
 PSYCH 179 ..... (4)

For additional information or advising, contact the Department of Psychology.

### The Department's Honors Program

The Department of Psychology Honors Program has two major components that are completed over the course of one year. Students participate in a seminar (PSYCH 183A and 183B - Honors Seminar) designed to provide an advanced survey of research and theory in several major substantive areas of psychology. In addition, over the course of the year, honors students conduct their own honors project under the supervision of a faculty mentor. The program provides the opportunity for highly qualified, advanced psychology students to sharpen their analytical abilities, refine their writing skills, and expand their knowledge of psychology. The honors project itself is an opportunity for students to apply the knowledge and skills they have acquired as psychology majors to a particular question. Minimum criteria for application to the program include at least 18 units in psychology courses completed, GPA of at least 3.5 in psychology and 3.5 for overall in last two years coursework, and a letter of recommendation from the faculty mentor. Applications are accepted in the spring semester for the following academic year. See also the *Smittcamp Family Honors College* section of the catalog for further information about honors programs available at the university.

### Psychology Minor

A Psychology Minor must have prior approval of the psychology department. The minor consists of 22 units of psychology courses, 15 of which must be upper division. The specific courses may be selected to satisfy the needs of individual students but must be worked out in advance with an adviser from the department and be approved by the department.

**Note:** The Psychology Minor also requires a 2.0 GPA and 6 upper-division units in residence.

### Graduate Programs

The Master of Arts and Master of Science degrees in Psychology are designed to provide students with a broad background in psychology while allowing them opportunities to pursue areas of special interest. Completion of the requirements for either master's degree prepares students for positions in community mental health service agencies, school settings, community col-

lege teaching, research, or entry into Ph.D. or Psy.D. programs in Psychology.

Admission to the Master of Arts and Master of Science programs in Psychology is based upon the satisfactory completion of prerequisite courses selected from the core courses required for the California State University, Fresno undergraduate major in psychology, or their equivalent. Potential graduate students should submit transcripts of all academic work and three letters of recommendation. In addition, students must submit scores from the GRE general test and the subject test in psychology to be considered for admission. School Psychology program applicants must submit scores from the CBEST as well and complete other prerequisites as outlined in the department's application. All students must submit applications to both the Division of Graduate Studies and the Department of Psychology.

Admission to the graduate program in psychology is based on the evaluation of a student's capacity to successfully complete master's level work. The graduate committee uses multiple criteria to assess an applicant's qualifications including coursework completed, grades, test scores, essays, and letters of recommendation. In addition, an applicant's professional interests and goals are evaluated in terms of the interests of the faculty and the resources of the Department of Psychology. Separate evaluations of applicants are made for the M.A. general/experimental program and the M.S. School Psychology program. Although many applicants meet our minimum admission requirements, we are limited in the number of positions available and many qualified applicants cannot be offered admission.

Admission to classified graduate standing requires a minimum undergraduate grade point average of 3.0, as well as a minimum grade point average of 3.0 in undergraduate psychology courses. A combined GRE Aptitude Test score of 1,000 or higher, and a score on the GRE Subject Test in Psychology equivalent to the 60th percentile or higher is preferred. Applicants lacking minimum scores in one area with compensating strengths in other areas may apply. The Department of Psychology does not typically admit unclassified students into the graduate program.

*Specific requirements for advancement to candidacy for all degrees and credentials* include a score above the 60th percentile (ETS norms) on the GRE Subject Test in Psychology. Grades of A or B must be

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earned in Psych 231 and Psych 244 for advancement to candidacy and graduate credit in these courses.

The graduate writing requirement can be fulfilled by PSYCH 244. Further information can be found in the course syllabus and graduate handbook.

(See also *Admission to Graduate Standing, Advancement to Candidacy, Program Requirements, and Criteria for Thesis and Project* in the *Graduate Studies* section of the catalog, page 470-480.)

Under the direction of a graduate adviser, a coherent program is prepared and submitted, directed toward the achievement of the student's goal in graduate study.

## Master of Arts Degree Requirements

The Master of Arts degree program in psychology may be arranged to include interest areas such as general experimental, developmental, and social psychology, as well as special master of arts programs for individuals. This 30-unit degree program is intended primarily to prepare graduates for entry into doctoral programs in general experimental, developmental, social, or clinical psychology, and may serve as preparation for community college teaching or professional employment requiring a master's degree.

## Course Requirements for M.A. Degrees

<i>Core</i>	<i>Units</i>
PSYCH 231 .....	3
PSYCH 244 .....	4
PSYCH 200T or 250T or 255T (one course) .....	3-4
PSYCH 220T or 225T (one course) ..	3-4
PSYCH 299 (Thesis) .....	3-6
<b>Total</b> .....	<b>16-21</b>

<i>Electives</i>	<i>Units</i>
Must include two additional courses in psychology or a related field; maximum of 6 units independent study. Program must be approved by graduate adviser .....	<b>9-14</b>
<b>Total</b> .....	<b>30</b>

## Master of Science Degree Requirements

The Master of Science in Psychology is a three-year, full-time graduate program and requires a minimum of 78 units. Practicum experience is required during the first two years of coursework. The internship experi-

ence, completed during the third year of the program, requires a minimum of 1,200 hours with at least half of these hours completed in a school setting.

Students who wish to become eligible for the Pupil Personnel Credential with a specialization in School Psychology as granted by the California Commission on Teacher Credentialing should contact the department for application materials and additional information.

## Course Requirements for M.S. Degrees

	<i>Units</i>
PSYCH 200T .....	4
PSYCH 220T .....	3-4
PSYCH 225T .....	3-4
PSYCH 231 .....	3
PSYCH 244 .....	4
PSYCH 255T .....	3-4
PSYCH 267 .....	12
PSYCH 270T .....	6
PSYCH 277 .....	3
PSYCH 278 .....	4
PSYCH 279 .....	4
PSYCH 282 .....	4
PSYCH 283T .....	1
PSYCH 284 .....	4
PSYCH 285 .....	4
PSYCH 288 .....	4
PSYCH 299 (Thesis) .....	3-6
COUN 200 .....	3
COUN 201 .....	3
COUN 240 .....	3
<b>Total</b> .....	<b>78-84</b>

## COURSES Psychology (PSYCH)

**10. Introduction to Psychology (4)**  
Prerequisite: G.E. Foundation A2. Not open to students with more than 6 units in psychology. Introduction to psychology as an empirical science; biological and social bases of behavior; scientific principles of psychology in perception, learning, motivation, intelligence, and personality. G.E. Breadth D3. (3 lecture, 2 lab hours) (CAN PSY 2)

**36. Biological Psychology (3)**  
Role of the nervous system in mediating sensory processes, motivation, emotion, sleep and dreams, language, cognitive processes, learning and memory, and mental disorders. (CAN PSY 10)

**40T. Topics in Research Design and Statistics (2-8; max total 12 if no topic repeated)**  
Introductory research methods and statistics in psychology. Introduction to scientific procedures and empirical research.

Participation in research, data analysis, and APA research report writing. (May include lab hours)

**42. Introductory Statistics (4)**  
Basic statistical methods for analysis of data; parametric tests of significance; linear regression and correlation; analysis of variance; introduction to non-parametric techniques. (May include lab hours)

**60T. Psychology as a Behavioral Science (2-5; max total 6 if no topic repeated)**  
Problems in approaching man as a social animal; sections in basic or applied processes in personality, interpersonal relations, social environment, and group participation. (May include lab hours)

**61. Personal Adjustment (3)**  
Not open to students with credit in PSYCH 171. General adjustment behavior with regard to health, social, academic, and emotional problems; application of principles for prevention of health, social, academic, and emotional problems. G.E. Breadth E1.

**101. Child Psychology (3)**  
Not open to students with credit in PSYCH 155. The dynamics of infant and child development and adjustment.

**102. Adolescent Psychology (3)**  
Adjustment of youth to self and society.

**103. Maturity and Old Age (3)**  
(Same as GERON 103.) Psychological study of maturity and old age; physiological and sociological considerations.

**120T. Topics in General Psychology (2-5; max total 12 if no topic repeated)**  
Prerequisites: psychology major or minor status or permission of instructor. Empirical evidence and theoretical issues in learning, motivation, cognition, language, perception, sensory, and physiological processes. Sections may be limited to animal or human studies; research and reporting. (May include lab hours)

**121. Learning and Memory (4)**  
Prerequisites: psychology major or minor status or permission of instructor. Combined survey of (1) principles from the human and animal laboratory with theoretical interpretations and applications; and (2) principles of operation of the human memory system with theoretical interpretations. (May include lab hours)

**122. Motivation (4)**  
Prerequisites: psychology major or minor status or permission of instructor. Initiation and continuation of behavior, acquisition, and modification of motives. (May include lab hours)

**123. Developmental Psychobiology (4)**

Prerequisites: G.E. Foundation and Breadth Area D. Biological and psychological foundations of behavioral development. Topics include issues in developing systems, genetics and evolution of behavioral development, behavioral embryology, comparative development of nervous systems, development of cognitive and affective behaviors, and ecological and multicultural influences on biobehavioral development. G.E. Integration ID. (Formerly PSYCH 120T)

**124. Sensation and Perception (4)**

Prerequisites: psychology major or minor status or permission of instructor. Study of sensory and perceptual processes in vision, touch, and hearing. Emphasis is placed on how basic perceptual principles operate in everyday life as well as in lab settings.

**125. Behavioral Neuroscience (4)**

Prerequisites: psychology major or minor status or permission of instructor. (PSYCH 36 recommended.) Nervous systems structures and physiological processes underlying behavior; anatomical and physiological bases of learning, motivation, emotions, and emotional disorders. (May include lab hours)

**126. Cognitive Neuroscience (3)**

Prerequisites: G.E. Foundation and Breadth Area B. Biological mechanisms which mediate cognitive processes. Topics include the nervous system substrates for perception memory, language, cerebral lateralization and specialization, attention, and consciousness. G.E. Integration IB.

**128. Cognitive Psychology (4)**

Prerequisites: psychology major or minor status or permission of instructor. An introduction to theory and research in human information processing. Topics include attention, mental representation, imagery, problem solving, reasoning, language, and other higher mental processes.

**132. Psychology of Sexuality (3)**

Prerequisite: upper-division standing. Psychological aspects of human sexual behavior: influence on personality, various behavioral manifestations and pathologies.

**136. Human Learning and Behavior (3)**

Introduction to learning principles as they interact with perception, cognition, and motivation. Relevance of these principles in understanding human adaptation to school, home, and social environments.

**140T. Topics in Psychological Methods (4; max total 8 if no topics repeated)**

Prerequisite: PSYCH 10. Research methods and statistics in psychology: introduction to scientific procedures, experimental research, survey research, and qualitative



research. Participation in research, data analysis and APA research report writing. (May include lab hours)

**143. Intermediate Computer-based Statistical Analysis (4)**

Prerequisites: psychology major or minor status or permission of instructor. Intensive computer-based study of analysis of variance with research emphasis. Topics include single and multifactor designs both with and without repeated measures, multiple comparisons, trend tests, analysis of covariance and multivariate analysis of variance. (May include lab hours)

**144. Research Designs and Experimental Methods (5)**

Prerequisite: PSYCH 10 and PSYCH 42. Basic course in experimental psychology: research design and inferential statistics; introduction to scientific procedures and methods in psychology; participation in research, data analysis, and report writing. (May include lab hours)

**145. Computer and Information Skills in Psychology (3)**

A survey of computer and information skills in the behavioral sciences. Applications of information technology include use of word processors, electronic communications, spreadsheets, statistical packages, and other specialized computer programs for psychology. Emphasis will be on developing information competence including locating, gathering, organizing, and reporting computer-based information. (May include lab hours)

**149. Psychological Testing (4)**

Prerequisites: psychology major or minor status or permission of instructor. Theories of psychological testing stressing the logic and limits of measurement. Emphasis on technical and individual tests. (3 lecture, 3 lab hours)

**150T. Problems in Personality, Developmental and Social Psychology (2-5; max total 12 if no topic repeated)**

Prerequisites: psychology major or minor status or permission of instructor. Wholistic levels of analysis in psychology such as personality, social, individual differences, and developmental; conceptual and empirical issues. (May include lab hours)

**153. Developmental Research and Inquiry for Practitioners (3)**

PSYCH 101, PSYCH 155, or CFS 39 recommended prior to enrollment in this course. Empirical and theoretical treatment of developmental issues. Emphasizes understanding the process of scientific discovery and learning to accurately interpret and evaluate developmental research. Examines theories and methods that guide research on physical, social, cognitive, and emotional development.

**154. Personality (4)**

Prerequisites: psychology major or minor status or permission of instructor. Major contemporary theories of personality; techniques for research in personality. (May include lab hours)

**155. Developmental Psychology (4)**

Prerequisites: psychology major or minor status or permission of instructor. Empiri-

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cal and theoretical treatment of human development throughout the life span; genetic, physiological, and sociocultural influences upon development; physical, emotional, motivational, intellectual-cognitive, and social facets of development. (May include lab hours)

### **156. Social Psychology (4)**

Prerequisite: psychology major or minor status or permission of instructor. Examination of the interaction between social environments and behavior. Application of social psychological theories and principles to interpersonal relationships, education, work, health, and the media. (May include lab hours) (Formerly PSYCH 134)

### **160T. Topics in Clinical Processes**

**(2-5; max total 12 if no topic repeated)**

Prerequisite: psychology major or minor status or permission of instructor. Examination of individual behavior and small-group processes; include such topics as clinical psychopathology, sensitivity training, and intragroup dynamics, consciousness, dreams, and imagination.

### **162. Introduction to Clinical Psychology (4)**

Overview of clinical psychology, including history, ethics, applied roles, conceptual and technical approaches to assessment and intervention, applying to graduate school, and anticipated future developments.

### **166. Abnormal Psychology (3)**

Study of the origins, symptoms, and treatments of behavioral and personality disturbances from childhood through senescence; application of current DSM.

### **168. Exceptional Children (3)**

The atypical child; etiology, symptomatology, nosology, recognition, and recommendations.

### **169. Psychological Aspects of Physical Disability (3)**

Psychological theory and research pertaining to physical disability and disabled persons. Attitudes regarding disability and the impact of disability on individual behavior. Primarily deals with blindness, deafness, orthopedic handicap, and epilepsy, and secondarily with cardiovascular disease, cancer, and diabetes.

### **170T. Topics in Psychological Applications**

**(2-5; max total 12 if no topic repeated)**

Applications of psychology; human factors; clinical psychology, learning applications, clinical quantitative, learning, creativity, computer, and other applied topics. (May include lab hours)

### **171. Adjustment and Mental Health (3)**

Addresses how basic psychological principles facilitate adjustment to the problems, challenges, and demands of modern living. Emphasizes critical thinking through application of principles and consideration of multicultural issues. Not open to students with credit in PSYCH 60T or PSYCH 61. G.E. Breadth E1.

### **172. Applied Behavior Analysis (3)**

Introduction to the philosophy and research of applied behavior analysis. Includes the methods of research, basic principles, and applied techniques used in the field. Presents ethical and legal standards under which behavior analysts work. (Formerly PSYCH 170T)

### **173. Environmental Psychology (3-4; max total 4)**

Prerequisites: G.E. Foundation and Breadth Area D. The scientific study of the effects of human behavior on the environment and the psychological effects of the environment on human behavior. Topics include issues related to overpopulation, pollution, urbanization, noise, and environmental disaster, as well as environmental policies and grass-roots movements worldwide. G.E. Integration ID.

### **174. Introduction to Counseling (3)**

(See COUN 174.)

### **175. Family Counseling (3)**

Theory and application of major counseling models. Family problems, relationships and systems. Application of child development principles, relevant communication theory and current research to therapy with couples, families, children, and groups.

### **176. Industrial Psychology (3)**

Occupational assessment, training procedures, production efficiency, morale determinants, human engineering, decision processes, organization theory.

### **177. Behavioral and Cognitive Change Techniques (4)**

Prerequisites: psychology major or minor status or permission of instructor. Introduction to learning principles and their applications to behavioral and cognitive change. Methods and techniques used for changing self, children, adolescents, and adults. (3 lecture hours, 1 practicum hour arranged)

### **178. Culture, Social Class, and Development (3-4; max total 4)**

An introduction to theory and research on race, prejudice, culture, and social class, and the results of these on the intellectual and social development of the child.

### **179. Supervised Field Experience (4)**

Open only to psychology majors. Prerequisites: psychology major or minor status or permission of instructor. Supervised field experience in community settings. Placements may include schools, hospitals, institutions for the aged, community service agencies, and legal settings, depending on student interests. Regular class meetings.

### **180T. Seminar in Psychology**

**(1-5; max total 12 if no topic repeated)**

Prerequisites: 9 units in psychology, permission of instructor. Undergraduate seminar in specialized areas, new developments and synthesis of psychological processes, thought, and theory.

### **182. History and Systems (4)**

Prerequisite: psychology major or minor status; senior standing or permission of instructor; 12 upper-division units in the major. Historical, philosophical, and scientific background in psychology; review and integration of theoretical issues and current systems in the field. Lecture and discussion.

### **183A-B. Honors Seminar (1-3; max total 6)**

Prerequisite: application and acceptance into the department's honors program. Advanced experience in psychology for selected majors that includes critical and creative thinking about topics in psychology, individualized research training, and exploration of options in psychology. (Formerly PSYCH 180T)

### **190. Independent Study (1-3; max total 6)**

See *Academic Placement — Independent Study*. Approved for *SP* grading.

### **199. Senior Thesis (2-4; max total 4)**

Concentrated empirical or theoretical study of specific topic in psychology; emphasis on independent and creative activity. Copy of thesis required for Psychology Department file.

## **GRADUATE COURSES**

(See *Course Numbering System*.)

### ***Psychology (PSYCH)***

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### **200T. Seminar in Developmental Psychology**

**(2-4; max total 15 if no topic repeated)**

May be repeated with different topics. Prerequisite: permission of instructor. Seminars in development and genetic psychology, special topics for particular age ranges and problem areas. (May include lab hours)

**220T. Seminar in Learning and Related Problems (2-4; max total 15 if no topic repeated)**  
Prerequisite: undergraduate core. Advanced current developments in learning, perception, language, memory, and cognitive psychology. (May include lab hours)

**225T. Seminar in Psychobiological Bases of Behavior (2-4; max total 15 if no topic repeated)**  
Prerequisite: permission of instructor. Recent advances in psychophysiology, physiological psychology, psychopharmacology, behavior genetics, sensory processes and related topics. (May include lab hours)

**231. Ethics in Psychology (3)**  
(Same as AETH 200.) Prerequisite: permission of instructor. Study of ethical issues, values, and problems in psychological research and practice. Topics include subject risk, confidentiality, court decisions, and licensing laws. Seminar format with student presentations.

**240T. Seminar in Quantitative Methods for Behavioral Research (2-4; max total 15 if no topic repeated)**  
Prerequisite: PSYCH 143. Methods for analysis of multivariate data; factor analysis; multiple regression; advanced analysis of variance procedures. Computer applications and use of computers for analysis of data. (May include lab hours)

**244. Seminar in Research Methods and Theoretical Issues (4)**  
Prerequisite: PSYCH 143 or permission of instructor. Examination of recent theories, advanced research methods, and statistical techniques in behavioral research. (May include lab hours)

**250T. Seminar in Personality and Related Areas (2-4; max total 12 if no topic repeated)**  
Prerequisite: undergraduate core in psychology. In-depth examination of the recent developments in personality and clinical psychology. (May include lab hours)

**255T. Seminar in Social Psychology and Related Areas (2-4; max total 15 if no topic repeated)**  
Prerequisite: permission of instructor. Theories and research about individual functioning in society; also includes such topics as environment psychology and the psychology of women. (May include lab hours)

**267. Internship in School Psychology (3-6; max total 12)**  
Prerequisites: PSYCH 281, 284, 285, 288, and permission of instructor. University and school-based supervised internship in school psychology. *CR/NC* grading only.

**270T. Seminar in Applied Behavioral Science (1-6; max total 15 if no topic repeated)**  
Prerequisite: permission of instructor. Topics in applied behavioral research; conflict management, group dynamics, organization development, sensitivity training, and multicultural issues. For students in the fields of business, communications, education, psychology, and the social sciences. (May include lab hours) *CR/NC* grading only.

**272. Seminar in Lab Teaching (1; max total 4)**  
Enrollment restricted to and required of graduate students teaching discussion sections in psychology laboratories. Class discussion of teaching techniques and procedures used to demonstrate principles in introductory psychology. Course may be repeated for a maximum of 4 units credit. *CR/NC* grading only.

**277. Role and Function of the School Psychologist (3)**  
Prerequisites: graduate standing and admittance to School Psychology Program. State and federal education codes and court decisions related to the practice of school psychology; types of community resources and referral services. Includes supervised practicum experience in schools.

**278. Intervention and Prevention in School Psychology (4)**  
Prerequisite: PSYCH 277, 279, 282, and 288. Roles and responsibilities of the school psychologist including prevention, individual and group techniques for early intervention, and strategies for modification of individual programs and educational environments. Includes supervised practicum experience.

**279. Consultation and Supervision (4)**  
Prerequisite: PSYCH 277 and 288. Types of consultation services offered by school psychologists and variables which influence consultation effectiveness including organizational and systems issues. Emphasizes development of consultation and supervisory skills. Includes supervised practicum experience.

**281. Interviewing and Individual Psychotherapy (4)**  
Prerequisites: a course in abnormal or clinical psychology and permission of instructor. Basic interviewing skills including intake and interviews for diagnostic and therapeutic purposes. Review of current models and theories of psychotherapy. Development of applications using video taping and supervised practicums.

**282. Cognitive and Behavior Therapy (4)**  
Prerequisites: a course in learning or behavior modification and permission of instructor. Historical and current trends, research issues, and designs. Application of the behavior approach in a variety of settings. Includes supervised practicum experience.

**283T. Topics in Clinical Intervention (1-4; max total 12 if no topic repeated)**  
Prerequisite: permission of instructor. Advanced study in specialized areas in clinical and school intervention. May include topics such as clinical hypnosis, health psychology, family therapy, group therapy, individual and group intervention in schools, etc. Practicum training usually included. Topics may not be repeated. *CR/NC* grading only.

**284. Assessment of Intellectual Abilities (4)**  
Prerequisites: a course in psychological testing and permission of instructor. Review of theories of intelligence. Administration, scoring, and interpretation of individual and group measures of intelligence. Supervised practicum includes case studies of learning problems and the role of intelligence measures in assessment batteries.

**285. Assessment of Learning and Developmental Problems (4)**  
Prerequisite: PSYCH 284. Administration, scoring, and interpreting measures of learning disorders, physical-motor development, psychomotor abilities, social maturity, tests, school achievement, and vocational selection. Supervised practicum emphasizing proscriptive and rehabilitative recommendations in case studies.

**288. Advanced Applied Behavior Analysis (4)**  
Prerequisite: PSYCH 177. Applied use of classical and operant conditioning and social learning theory as behavior change techniques. Emphasis will be on functional assessment of behavior, including structured observations and behavior rating instruments. Students will also learn to develop and evaluate single subject research designs. Includes supervised practicum experience.

**290. Independent Study (1-3; max total 6)**  
See *Academic Placement — Independent Study*. Approved for *SP* grading.

**299. Thesis (3-6; max total 6)**  
Prerequisite: See *Criteria for Thesis and Project*. Preparation, completion, and submission of an acceptable thesis for the master's degree in compliance with Psychology Department regulations. Approved for *SP* grading.