

Psychology

Psychology is the scientific study of behavior—including human thought, emotion, and action—and the application of scientific knowledge to the solution of real-world problems. It includes a wide variety of topics, including perception, learning, memory, thinking, emotion, personality, social interaction, development, and abnormal behavior. Psychologists recognize that understanding behavior in all its complexity requires studying it from multiple perspectives. A thorough understanding of memory, for example, requires knowledge ranging from the neural structures and processes that underlie it to the social and cultural forces that influence it.

Students majoring in psychology take core courses in general psychology, statistics, and research methodology, along with additional courses in each of the primary areas of the discipline. There are also numerous opportunities for students to supplement their coursework with hands-on experience in faculty research labs and in the field under faculty supervision. Advanced and well-qualified students can participate in our senior honors program. These students design, conduct, and present an original research project as a senior thesis.

Psychology majors learn to think critically, write and speak clearly, identify and solve problems, and work effectively both individually and in groups. As a result, the study of psychology provides excellent preparation for graduate study and careers in a variety of fields.

Faculty and Facilities

All full-time faculty members in the department have a Ph.D. in psychology or a closely related field. Their areas of expertise represent the breadth of contemporary scientific psychology. In addition to being dedicated teachers, most faculty members also conduct and publish original research. Many are also licensed or certified as practitioners of clinical psychology, school psychology, or applied behavior analysis.

The department makes use of several smart classrooms and has a networked computer lab for teaching and for student use. There are extensive laboratory facilities within the department. They include space for observing and testing research participants, along with computers and other specialized equip-



ment (e.g., for audio and video recording, physiological recording).

Career Opportunities

Many of our B.A. graduates pursue careers in business, education, and social services. Combined with other appropriate coursework, psychology is also a good major for those planning to go to professional school in business, law, public health, medicine, and other fields.

Working as a professional clinician or researcher generally requires at least a master's degree. Many of our students continue in our M.S. program in school psychology or in the applied behavior analysis track of our M.A. program. Others enter our M.A. program in general experimental psychology in preparation for careers in teaching or research. Psychology graduates also pursue master's degrees in counseling, social work, and related fields either at Fresno State or elsewhere. These students generally go on to work for school districts, state and local governments, health care organizations, and social service agencies.

Becoming an independent practitioner, researcher, or college teacher in psychology generally requires a Ph.D. The training students receive in our department—especially the hands-on research experience—has helped many of our graduates to gain admission to top Ph.D. programs.

College of Science and Mathematics

Department of Psychology

Lynnette Zelezny, *Chair*

Sheri Osborn, *Administrative Support Coordinator*

Science II Bldg., Room 312

559.278.2691

<http://psych.csufresno.edu>

B.A. in Psychology

Pre-M.B.A. Option

M.A. in Psychology

Option:

- Applied Behavior Analysis

M.S. in Psychology

Minor in Psychology

Pupil Personnel Credential with an Advanced Specialization in School Psychology

Faculty

Lynnette Zelezny, *Chair*

Karl Oswald,

Undergraduate Advising Coordinator

Constance Jones, *Graduate Adviser*

Amanda Adams

Jennifer Austin

Michael Botwin

Karen Carey

Christine Edmondson

Jennifer Ivie

Lorin Lachs

Robert Levine

Amanda Mortimer

Sundé Nesbit

Paul Price

Jean Ritter

Aroldo Rodrigues

Martin Shapiro

Matthew Sharps

Michael Thackrey

Marilyn Wilson

Ron Yockey

Psychology

Bachelor of Arts Degree Requirements

Psychology Major *Units*

Major requirements 44-53

- A. *Core Courses* (all required):
PSYCH 10, 42, 144.....(12)
- 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, 172, 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, 123, 140T,
150T, 160T, 170T, 180T.... (1-5)
- I. *Psychology Electives*
(see *Advising Note 5*)

General Education requirements..... 51
Electives and remaining

degree requirements 19-28*
(See *Degree Requirements*);
may be used toward a double
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 double major or minor (see *Double 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 44 units for the psychology major or 64 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 44 units for the psychology major or 64 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.
2. Psychology majors who wish to enter an M.B.A. or other business-related graduate program upon completion of their B.A. 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. 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..... 64-72

- A. *Core Courses* (all required):
PSYCH 10, 42, 144.....(12)
- B. *Basic Knowledge and Skills*
(select 1): PSYCH 145 or
IS 52 and 52L *and* (select 1):
PSYCH 36, 60T, or 166 (5-8)
- C/D. *Applications*:
MKTG 100S 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, 123, 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 Master of Science. 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 Behavior Analysis Certification Board. Behavior analysts and specialists design and implement behavior change programs in a variety of settings including schools, 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.....(12)
2. *ABA Content*
PSYCH 136, 170T, 172.....(10)
3. *Enhancement Content (choose one)*
PSYCH 155 or 156(4)
4. *Additional ABA Elective (choose one)*
PSYCH 177 or 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 of 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 college 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.

In order to apply for advancement to candidacy, students in psychology graduate programs must earn grades of A or B in PSYCH 231 and PSYCH 244 and pass the Psychology Department Graduate Writing Requirement.

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 486-496.)

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

Master of Arts Applied Behavior Analysis Option

The Applied Behavior Analysis Option in the Master of Arts degree program in psychology is a two-year, full-time graduate program option that meets the degree, coursework, and experience requirements needed in preparation for national certification as a Board Certified Behavior Analyst (BCBA). Students are required to take 43 hours of coursework, including 3 thesis hours and 4 hours of practicum. A minimum of 1,000 contact hours of practicum are required over the two years of the program. Students must apply for admission to the ABA Option of the M.A. program during the graduate application process.

This program option emphasizes behavior analytic applications with typically

Psychology

developing and developmentally disabled children.

Course Requirements for the Applied Behavior Analysis Option

<i>Core</i>	<i>Units</i>
PSYCH 231	3
PSYCH 244	4
PSYCH 220T*	3
PSYCH 205	4
PSYCH 299 (Thesis)	3
Total	17

*Must take section entitled "Conditioning and Learning."

<i>Additional requirements</i>	<i>Units</i>
PSYCH 288	4
PSYCH 245	4
PSYCH 289	4
PSYCH 270T*	3
SPED 120	3
PSYCH 268 (Practicum)	4
Total	22

*Students must take section entitled "Community Intervention and System Supports."

<i>Electives*</i>	<i>Units</i>
Choose one: PSYCH 278, 282, or 286	4

*Substitutions may be made if approved by the program adviser.

Total **43**

Master of Arts

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.

Minimum Course Requirements for the M.A.

<i>Core</i>	<i>Units</i>
PSYCH 231	3
PSYCH 244	4
PSYCH 205 or 250T or 255T (one course)	3
PSYCH 220T or 225T (one course)	3
PSYCH 299 (Thesis)	3
Total	16

Electives *Units*

Must include two additional courses in psychology or a related field; maximum of 6 units independent study. Program must be approved by graduate adviser..... **14**

Total **30**

Master of Science Degree Requirements

The Master of Science in Psychology is a three-year, full-time graduate program and requires a minimum of 82 units. Practicum experience is required during the first two years of coursework. The internship experience, 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.

Minimum Course Requirements for the M.S.

	<i>Units</i>
PSYCH 205	4
PSYCH 225T	3
PSYCH 231	3
PSYCH 244	4
PSYCH 255T	3
PSYCH 267	12
PSYCH 270T	6
PSYCH 277	3
PSYCH 278	4
PSYCH 279	4
PSYCH 282	4
PSYCH 284	4
PSYCH 285	4
PSYCH 286	4
PSYCH 287	4
PSYCH 288	4
PSYCH 299 (Thesis)	3
COUN 200	3
COUN 201	3
COUN 240	3
Total	82

COURSES

Psychology (PSYCH)

PSYCH 10. Introduction to Psychology (3)

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. (CAN PSY 2)

PSYCH 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)

PSYCH 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)

PSYCH 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)

PSYCH 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)

PSYCH 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.

PSYCH 101. Child Psychology (3)

Not open to students with credit in PSYCH 155. The dynamics of infant and child development and adjustment.

PSYCH 102. Adolescent Psychology (3)

Adjustment of youth to self and society.

PSYCH 103. Psychology of Aging (3)

(See GERON 103.)

PSYCH 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)

PSYCH 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)

PSYCH 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)

PSYCH 123. Developmental Psychobiology (4)

Prerequisites: psychology major or minor status or permission of instructor. 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. (Formerly PSYCH 120T)

PSYCH 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.

PSYCH 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)

PSYCH 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.

PSYCH 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.

PSYCH 132. Psychology of Sexuality (3)

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

PSYCH 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.

PSYCH 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)

PSYCH 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)

PSYCH 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)

PSYCH 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)

PSYCH 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. (May include lab hours)

PSYCH 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)

PSYCH 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.

PSYCH 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)

PSYCH 155. Developmental Psychology (4)

Prerequisites: psychology major or minor status or permission of instructor. Empirical 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)

PSYCH 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)

PSYCH 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.

PSYCH 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.

Psychology

PSYCH 166. Abnormal Psychology (3)
Study of the origins, symptoms, and treatments of behavioral and personality disturbances from childhood through senescence; application of current DSM.

PSYCH 168. Exceptional Children (3)
The atypical child; etiology, symptomatology, nosology, recognition, and recommendations.

PSYCH 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.

PSYCH 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)

PSYCH 172. Applied Behavior Analysis (4)
Prerequisite: psychology major or minor status or permission of instructor. 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)

PSYCH 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.

PSYCH 174. Introduction to Counseling (3)
(See COUN 174.)

PSYCH 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.

PSYCH 176. Industrial Psychology (3)
Occupational assessment, training procedures, production efficiency, morale determinants, human engineering, decision processes, organization theory.

PSYCH 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.

PSYCH 179. Supervised Field Experience (4)
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.

PSYCH 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.

PSYCH 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.

PSYCH 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.

PSYCH 190. Independent Study (1-3; max total 6)
See *Academic Placement — Independent Study*. Approved for *RP* grading.

PSYCH 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 *Catalog Numbering System*.)

Psychology (PSYCH)

PSYCH 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)

PSYCH 205. Seminar in Social Development (4)
Prerequisite: a course in child or developmental psychology or permission of instructor. Advanced survey of current and classical research in social development using primary source material. Examines issues such as nature/nurture, plasticity, direction-of-effect, continuity/discontinuity, and content relevant to theoretical and applied areas of social development emphasizing intrapersonal and interpersonal development. (Formerly PSYCH 200T)

PSYCH 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)

PSYCH 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)

PSYCH 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.

PSYCH 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)

PSYCH 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)

PSYCH 245. Research Methods in Behavior Analysis (4)

Prerequisite: PSYCH 288. Single subject research designs and behavioral measurement techniques, assessment of graphed data, social validity.

PSYCH 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)

PSYCH 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)

PSYCH 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.

PSYCH 268. Practicum in Applied Behavior Analysis (1; max total 4)

Prerequisite: PSYCH 288 and permission of instructor. University- and site-based supervision of practica in applied behavior analysis.

PSYCH 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.

PSYCH 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.

PSYCH 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.

PSYCH 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.

PSYCH 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.

PSYCH 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.

PSYCH 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.

PSYCH 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.

PSYCH 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.

PSYCH 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.

PSYCH 286. Instructional Consultation and Intervention (4)

Develops students' skills for using assessment data to target areas of student needs. After identifying student needs, course covers skills in consulting with teachers about how to develop, implement, and evaluate instructional interventions (e.g. materials, strategies, etc.) (Formerly PSYCH 283T)

PSYCH 287. Practicum in School Psychology (1; max total 6)

Prerequisite: enrollment in the M.S. in Psychology program. University- and school-based supervision of practica in school psychology. *CR/NC* grading only. (Formerly PSYCH 283T)

PSYCH 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.

PSYCH 289. Functional Assessment and Intervention (4)

Prerequisite: PSYCH 288. Advanced strategies of functional behavioral assessment and intervention for adults and children across school, home, and community settings; ethical and procedural considerations of assessment and intervention; issues of system support and maintenance. (Formerly PSYCH 200T)

PSYCH 290. Independent Study (1-3; max total 6)

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

PSYCH 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 *RP* grading.