
Psychology

In the College of Sciences

OFFICE: Life Sciences 110

TELEPHONE: (619) 594-5358

FAX: (619) 594-1332

WEB SITE: www.psychology.sdsu.edu

Faculty

Claire Murphy, Ph.D., Professor of Psychology,
Chair of Department

Catherine J. Atkins, Ph.D., Professor of Psychology, Associate Dean for
Undergraduate Studies of the College of Sciences

Jeff B. Bryson, Ph.D., Professor of Psychology

Thereasa A. Cronan, Ph.D., Professor of Psychology

Roger M. Dunn, Ph.D., Professor of Psychology

Larry Fenson, Ph.D., Professor of Psychology

Richard G. Graf, Ph.D., Professor of Psychology

William K. Graham, Ph.D., Professor of Psychology

Frederick W. Hornbeck, Ph.D., Professor of Psychology

Elizabeth A. Klonoff, Ph.D., Professor of Psychology,
Co-Director of Clinical Training and of Doctoral Program

Philip J. Langlais, Ph.D., Professor of Psychology, Associate Dean for
Research and Graduate Studies of the College of Sciences

Alan J. Litrownik, Ph.D., Professor of Psychology

Nancy A. Marlin, Ph.D., Professor of Psychology, Provost

Sandra P. Marshall, Ph.D., Professor of Psychology

John E. Martin, Ph.D., Professor of Psychology

Georg E. Matt, Ph.D., Professor of Psychology

Robert F. McGivern, Ph.D., Professor of Psychology

Sandra O. Mollenauer, Ph.D., Professor of Psychology

Radmila Prislín, Ph.D., Professor of Psychology

Stephen K. Reed, Ph.D., Professor of Psychology

Judy S. Reilly, Ph.D., Professor of Psychology

Edward P. Riley, Ph.D., Professor of Psychology

Dennis P. Saccuzzo, Ph.D., Professor of Psychology

James F. Sallis, Jr., Ph.D., Professor of Psychology

Thomas R. Scott, Ph.D., Professor of Psychology,
Dean of the College of Sciences

Donna Castañeda, Ph.D., Associate Professor of Psychology

Keith Hatstrup, Ph.D., Associate Professor of Psychology

Vanessa L. Malcarne, Ph.D., Associate Professor of Psychology

Joseph M. Price, Ph.D., Associate Professor of Psychology

Judy M. Price, Ph.D., Associate Professor of Psychology
(Graduate Adviser for Master's Program)

Roberto J. Velasquez, Ph.D., Associate Professor of Psychology

Denise E. Wilfley, Ph.D., Associate Professor of Psychology

Leola A. Alfonso-Reese, Ph.D., Assistant Professor of Psychology

P. Niels Christensen, Ph.D., Assistant Professor of Psychology

Jeffrey M. Conte, Ph.D., Assistant Professor of Psychology

Thierry Devos, Ph.D., Assistant Professor of Psychology

Kearen M. Ehrhart, Ph.D., Assistant Professor of Psychology

Mark G. Ehrhart, Ph.D., Assistant Professor of Psychology

Margaret Friend, Ph.D., Assistant Professor of Psychology

Linda C. Gallo, Ph.D., Assistant Professor of Psychology

Sarah N. Mattson, Ph.D., Assistant Professor of Psychology

Ralph-Axel Mueller, Ph.D., Assistant Professor of Psychology

Scott C. Roesch, Ph.D., Assistant Professor of Psychology

Jennifer D. Thomas, Ph.D., Assistant Professor of Psychology

Jean M. Twenge, Ph.D., Assistant Professor of Psychology

May Yeh, Ph.D., Assistant Professor of Psychology

Associateships and Assistantships

Graduate teaching associateships and graduate assistantships in psychology are available to a limited number of qualified students. Application forms and further information may be obtained from the master's program adviser, Department of Psychology.

General Information

A Master of Science degree program in applied psychology with a focus on industrial/organizational psychology or program evaluation is offered. A Master of Arts degree program with a specialization in pre-clinical, developmental, behavioral and cognitive neuroscience, social/personality or learning and cognition is available for persons who expect subsequently to pursue a Ph.D. degree. For students currently enrolled in the Ph.D. program, an M.S. in clinical psychology is offered. In addition, the Department of Psychology, jointly with the Department of Psychiatry, University of California, San Diego, School of Medicine, offers an APA-accredited program of graduate study leading to the Doctor of Philosophy degree in clinical psychology with

specialization in behavioral medicine, neuropsychology, or experimental psychopathology. A scientist-practitioner training model serves as a guide for the experiences provided for doctoral students. It is expected that graduates of this program will be prepared to serve as scientists, innovators, and leaders in the field of clinical psychology.

The doctoral program requires that students spend a minimum of five calendar years in study and research. In the first four years, doctoral students must complete their prescribed coursework satisfactorily as well as engage in research and a series of clinical practica. In the last year of the program all students must complete a 12-month APA-accredited clinical internship.

The department has a strong scientific research orientation, and emphasizes the master's degree as preparation for doctoral work. Students in all programs must take an advanced statistics/experimental design course sequence and produce an empirical research thesis.

The department awards approximately 30 master's degrees annually. A substantial proportion of the graduates who apply go on to enroll in doctoral work at well-known universities.

The clinical psychology faculty staff a Psychology Clinic for graduate clinical training and service to the metropolitan San Diego community.

Section I. Master's Degree Programs

Admission to Graduate Study

Admission to the Psychology Department's master's program involves a two-step process. Applicants must file one application with the University, and a separate application package with the Psychology Department.

1. For admission to the University, all students must satisfy the general requirements for classified graduate standing, as described in Part Two of this Bulletin. Applications to the University can be found at www.csumentor.edu; they can be filled out on the computer and submitted electronically.

NOTE: Admission to the University does not guarantee admission to the Psychology Department.

2. To be considered for admission to the Psychology Department's programs, applicants must satisfy particular department requirements. These requirements and instructions for completing the department application package are shown below. The department application form is available at www.psychology.sdsu.edu. Students are admitted to the master's programs in the fall semester only.

To qualify for admission to the master's programs in psychology, the student must have:

1. A. For the M.A. program: An undergraduate major in psychology (or coursework equivalent to the SDSU bachelor's degree) consisting of at least 24 upper division units with a grade point average of at least 3.0. The major must include classes in general psychology, learning, physiological psychology, statistical methods, psychological testing and measurement, and at least one laboratory course or the equivalent in psychology. In addition, the student must have completed three of the following classes: developmental psychology, introduction to research methods, intermediate statistics, social psychology, abnormal psychology, psychology of personality, cognitive psychology, or sensation and perception. Six units of upper division psychology electives, which may be from the above list, are also required.
- B. For the M.S. applied program: An undergraduate major in psychology (or coursework equivalent to the SDSU bachelor's degree) consisting of at least 24 upper division units with a grade point average of at least 3.0. The major must include classes in general psychology, learning, statistical methods, psychological testing and measurement, intermediate statistics or research methods, and at least one class providing research experience in psychology. In addition, the student must have completed three of the following classes: developmental psychology, social psychology, abnormal psychology, psychology of personality, cognitive psychology, industrial/organizational psychology, experimental psychology with laboratory, or sensation and perception. Six units of upper division psychology electives, which may be from the above list, are also required.
2. A grade point average of not less than 3.0 in the last 60 semester units of the undergraduate program.
3. A minimum score above the 50th percentile rank on both the verbal and quantitative sections of the GRE General Test.
4. A score above the 50th percentile rank on the GRE Subject (Advanced) Test in Psychology. The student should take this test as well as the GRE General Test in sufficient time so that the results will be available prior to the application deadline. It should be requested by the student that the score reports for these tests be forwarded directly to the SDSU Office of Graduate Admissions (SDSU code: 4682).

Meeting all of the indicated criteria does not guarantee admission to the program, since admission is also dependent on the facilities and resources available in the department.

The following materials should be submitted as a complete package directly to the Department of Psychology:

- (1) The completed application for admission to the Department of Psychology master's program, and the completed application for an assistantship, if this type of financial support is desired. The department application may be obtained by contacting the Department of Psychology, or at www.psychology.sdsu.edu. Include a brief statement with your reasons for pursuing graduate study (VI. Statement of Purpose).
- (2) Two sets of official transcripts (in sealed envelopes) from each issuing institution. This includes all degree transcripts and a transcript from the last institution attended. The transcripts must reflect the last 60 semester (90 quarter) units attempted. Students with international coursework must submit all official transcripts and proof of degree. If certificates and transcripts are not in English, they should be accompanied by certified English translations;
- (3) Three letters of recommendation (in sealed and signed envelopes returned to the applicant) from persons familiar with the applicant's academic performance.

Mail or deliver your complete application package to:

Department of Psychology
(Attention: Graduate Adviser)
San Diego State University
5500 Campanile Drive
San Diego, CA 92182-4611

The completed package must be received by the Department of Psychology by February 1.

NOTE: Students must also take the GRE General Test and the GRE Subject (Advanced) Test in Psychology. Examination scores should be sent to SDSU, not to the Department of Psychology (SDSU code: 4682).

The GRE should be taken by November to meet the Department of Psychology application deadline of February 1.

If the student's postsecondary instruction is in a language other than English, he/she must take the TOEFL; these scores should be sent to the University.

Students applying to both the SDSU/UCSD Joint Doctoral Program and the SDSU Master's Program are required to file only one University application and pay only one fee, which would cover both programs. However, separate departmental applications, one for the masters program and one for the doctoral program, must be filed if the student wishes to be considered for both programs.

Advancement to Candidacy

The student must satisfy the general requirements for advancement to candidacy as stated in Part Two of this bulletin. Having obtained three grades of C or lower in graduate courses automatically precludes advancement to candidacy.

In addition, students must have an approved thesis proposal prior to advancement to candidacy.

General Requirements for all Master's Degree Programs

In addition to meeting the basic requirements for the master's degree as described in Part Two of this bulletin, the student must complete a graduate program of at least 30 units (36-38 units for the Master of Science degree). Only classified graduate students are permitted to enroll in any 600-numbered (or higher) courses in psychology. The departmental graduate adviser must approve all programs of study except the Master of Science in clinical psychology. For the Master of Science in clinical psychology, departmental approval is done by the program director of the joint doctoral program.

Psychology 670A-670B or 770A-770B are required in all master's degree programs in the Department of Psychology. In addition, for all degrees other than the Master of Science in Clinical Psychology, Psychology 600 (Research Orientation), Psychology 799A (Thesis), and an oral examination on the thesis are also required.

Specific Requirements for the Master of Arts Degree

(Major Code: 20011)

The Master of Arts degree requires the completion of a minimum of 30 units in psychology to include Psychology 501, 670A-670B or 770A-770B, two units of 600, one unit of 797, and 799A. Students must also select at least one from each of the following pairs of core courses: Psychology 551 or 745, 587 or 632, 561 or 760, as well as two electives. In special cases, and by petition to the department's graduate committee, students may take up to six units of the required 30 units in 500-level and above courses in other departments.

All new Master of Arts degree students are required to take one unit of Psychology 600 during their first semester and another unit during their second semester.

Specific Requirements for the Master of Science Degree

(Major Code: 20011)

The Master of Science degree may be obtained with the following concentrations:

1. **The Applied Psychology program has two specializations: Program Evaluation and Industrial and Organizational Psychology.**

Specific requirements for students selecting the Program Evaluation specialization are: A minimum of 38 units, 32 of which must be completed in psychology, to include Psychology 670A-670B or 770A-770B, 600 (Research Orientation, 2 units), 621 or 622, 630, 675, 730, 791 (Internship in Applied Psychology, 6 units), 799A (Thesis). Of the nine units of graduate electives required, at least three must be selected from psychology; six units of graduate electives may be selected from other departments with prior approval of the master's program adviser.

Specific requirements for students selecting the Industrial and Organizational specialization are: A minimum of 38 units, 35 of which must be completed in psychology, to include Psychology 670A-670B or 770A-770B, 600 (Research Orientation, 2 units), 621, 622, 630, 675, 721, 722, 792 (Internship in Industrial and Organizational Psychology, 6 units), 799A (Thesis). Three units of graduate electives may be selected from psychology or from other departments with prior approval of the master's program adviser.

2. **Clinical Psychology (included within the Ph.D. program; not available separately).**

A minimum of 36 units in psychology, including Psychology 770A-770B, 801, 820, 840, 849, 850, 855, 856, 860, 896 (Clinical Practicum, minimum 3 units), and one course to be taken at the University of California, San Diego, SOMC 202E. Completion of the second year project and approval by a committee consisting of a minimum of three faculty members representing both SDSU and UCSD. For this degree only, all approvals and advancement to candidacy will be completed by the program director of the joint doctoral program.

**Section II.
Doctoral Program**
www.psychology.sdsu.edu/doctoral

Admission to Doctoral Study

(Major Code: 20031)

Applicants to the joint SDSU-UCSD doctoral program should write to SDSU-UCSD Joint Doctoral Program, 6363 Alvarado Court, Suite 103, San Diego, CA 92120-4913. Detailed instructions concerning application procedures will be sent to the applicant along with all necessary forms.

To be considered for admission to the joint SDSU-UCSD doctoral program in clinical psychology, students must meet the general requirements for admission to both universities with classified graduate standing as outlined in the respective current catalogs. These include (a) an acceptable baccalaureate degree from an institution accredited by a regional accrediting association or equivalent academic preparation, as determined by the graduate deans of the two institutions; (b) a minimum overall grade point average of 3.0; (c) a grade point average of at least 3.25 in the last 60 semester (90 quarter) units attempted; (d) good standing at the last institution attended; and (e) a minimum score of 550 verbal and 550 quantitative on the GRE Aptitude Test and a score above the 85th percentile on the GRE Advanced Test in Psychology. However, given the large number of applicants in the field of clinical psychology, the selection process is designed to identify the best from among many highly qualified applicants. Thus no minimum set of qualifications in any way guarantees admission. Personal interviews will be conducted with the most promising applicants. Admission of any candidate who deviates from the minimum standards can only be granted with special permission of both graduate deans. No faculty member has authority to make an offer of a position in the program to any applicant, implied or otherwise, without final recommendation of the program directors and approval of the graduate deans.

Applicants must submit a copy of all transcripts of previous college work, three letters of recommendation, and score reports for the Graduate Record Examination General Test and Graduate Record Examination Advanced Test in Psychology. Although an undergraduate psychology major is not mandatory for admission, applicants should have completed a minimum of 18 semester units (27 quarter units) in psychology including courses in physiological psychology, statistical methods, psychological testing, abnormal psychology, personality, social psychology, and an experimental laboratory in psychology. Advanced courses in perception and learning are desirable as are courses in biology, mathematics, linguistics, and other related areas (e.g., medical physics, computer sciences). The joint doctoral program is a year around program.

An option for Ph.D. students in clinical psychology is to concurrently pursue the Master of Public Health (MPH) degree in the Graduate School of Public Health. Students jointly enrolled will first be accepted into the psychology program and then apply for admission into public health. For the MPH degree, students must complete all required core classes as well as requirements for a particular specialization (health promotion, epidemiology, and health services administration and/or occupational/environmental health). Subsequent to coursework, MPH candidates generally conduct a research thesis as well. (For more information, see the section of this bulletin under "Public Health.")

Students will be admitted to graduate programs in psychology only in the fall semester. All application material must be received by the doctoral program office and the SDSU Office of Graduate Admissions not later than December 15 for the Ph.D. program.

Specific Degree Requirements for the Doctor of Philosophy Degree in Clinical Psychology

The student is guided by requirements for the doctoral degree program given in Part Two of this Bulletin. The core curriculum will normally be completed during the first two years. Completion of this core insures that students have a general background in empirical psychology (e.g., physiological, social, cognitive-affective, and individual bases of behavior); knowledge of conceptualizations of personality and psychopathology; an awareness and appreciation of professional ethics and conduct; awareness and appreciation of multicultural issues in an increasingly multicultural society; knowledge of the theory and techniques of psychological assessment; knowledge of therapeutic interventions, acquisition of therapeutic skills, and a minimum of 1,000 hours of supervised clinical experience; and competence in research methods. Specific courses providing this background at SDSU include Psychology 757, 770A-770B, 801, 840, 849, 850, 855, 856, 860, 896; Clinical Psychology 295 and 202E (Psychopathology) at UCSD.

During the second year, students will select a research topic for a second year project, which is similar to a master's thesis. Students are responsible for conducting all phases of this project under the supervision of their joint guidance committee. Students may also elect to obtain a master's degree by completing requirements for the Master of Science degree.

After completing the basic two-year core, work in subsequent years will diverge for students in each of the three specialty areas: behavioral medicine, experimental psychopathology, and neuropsychology. All students must take the one-unit seminar in neuropsychology.

Students specializing in behavioral medicine are required to take Psychology 841, Seminar in Biobehavioral Foundations in Behavioral Medicine, Psychology 842, Behavioral Medicine Seminar: Assessment, in the fall and Psychology 843, Behavioral Medicine Seminar: Intervention, in the spring of the third year. Students taking experimental psychopathology are required to take Psychology 852, Seminar in Experimental Psychopathology Research, in the fall of the third or fourth year, and Psychology 853, Advanced Seminar in Experimental Psychopathology, in the spring of the third or fourth year. Students in neuropsychology are required to take Clinical Psychology 205, Neuroanatomy and Clinical Psychology 294, Seminar in Neuropsychology, offered at UCSD.

In the fourth year, students are expected to submit and defend a dissertation proposal. Many students will also collect the data for and begin writing the dissertation during this year.

The fifth year is reserved for the completion of a doctoral dissertation and a full-time clinical internship that is identified by the student and the joint guidance committee.

Students are expected to maintain the highest standards of academic performance. Students must maintain a minimum 3.0 grade point average. According to doctoral program policy, falling below a 3.0 GPA automatically places a student on academic probation. A student may not remain on academic probation for more than one year. In addition, three grades below a B (i.e., a B- or lower or No Credit) are grounds for dismissal from the program without further qualification regardless of a student's overall GPA.

In clinical psychology, adherence to the Ethical Principles of Psychologists (APA, Amended, 1992) is mandatory. Students who knowingly or unknowingly violate any part of the ethical code may be dismissed from the program without further qualification regardless of coursework, research, or other academic achievement. A copy of the ethical code is distributed to students at their initial orientation.

Prior to advancement to candidacy, students will be required to sign a statement of understanding that 1) the doctoral faculty will communicate with the clinical internship agency all information relevant to the student's academic and professional qualifications for placement and continuation in the internship and 2) the student understands that the clinical internship must be satisfactorily completed before graduation.

Faculty

The following faculty members of the cooperating institutions participate in the joint doctoral program in clinical psychology and are available for direction of research and as members of joint doctoral committees.

San Diego State University:

Program Director: Klonoff

Program Members: Atkins, Calfas, Cronan, Elder, Gallo, Hornbeck, Hovell, Klonoff, Landrine, Langlais, Litrownik, Malcarne, Marshall, Martin, Matt, Mattson, Mayer, Mueller, Murphy, Joseph Price, Reilly, Riley, Roesch, Saccuzzo, Sallis, Schulte, Spinetta, Thomas, Wilfley, Wulfeck, Yeh

University of California, San Diego:

Program Director: Heaton

Program Members: Akshoomoff, Ancoli-Israel, Appelbaum, Atkinson, Bates, Bellugi, Birchler, Bondi, Braff, Britton, G. Brown, S.A. Brown, S.J. Brown, Caligiuri, Carver, Courchesne, Delis, Dimsdale, Drummond, Feifel, Filoteo, Garland, Geyer, Gillin, Gollan, Granholm, Grant, Haist, Jernigan, Jeste, L. Judd, P. Judd, Kaplan, Kelsoe, Kripke, Kulik, Kutas, Lang, Levine, Marcotte, Matloff, Max, McCabe, McQuaid, Miller, Mills, Myers, Nichols, Ostergaard, Palinkas, Parry, Patterson, Paulus, Peavy, Penn, Perry, Rapaport, Rutledge, Salmon, Schreibman, Schuckit, Schuchter, Segal, Sieber, Sparta, Squire, Stahl, Stein, Stiles, Swerdlow, Tapert, Townsend, Trauner, Wall, Wetherell, Zhu, Zisook

Courses Acceptable on Master's and Doctoral Degree Programs in Psychology (PSY)

UPPER DIVISION COURSES

501. History of Psychology (3)

Limited to graduate students or psychology majors with senior standing.

The historical background of modern psychology.

502. Philosophical Issues in Psychology (3)

Prerequisite: Six units of psychology.

Mind-brain relationship and other topics at the interface of psychology and philosophy.

547. Applied Social Psychology (3)

Prerequisite: Psychology 340.

Problems, methods, and ethical issues related to applied social psychology. Applications to various settings to include educational system, business and industry, health settings, legal system, mass communication, and the environment.

551. Clinical Psychology: Theory and Practice (3)

Prerequisite: Psychology 350. **Proof of completion of prerequisite required:** Copy of transcript.

Clinical assessment, theory and practice of behavior change, and professional ethics.

552. Psychology of Obesity and Weight Management (3)

Prerequisite: Senior or graduate standing in psychology or related fields.

Theory and current research issues on psychology of obesity, weight control, and eating disorders. Social, personality, cognitive, and physiological influences. Use of cognitive behavior modification for weight control.

561. Advanced Neuropsychology (3)

Prerequisite: Psychology 360 or 361 or grade of B or better in Psychology 260.

Biological bases of neuropsychological function and dysfunction, relationships between brain structure and function, neuropsychological assessment tools.

564. Seminar in Psychopharmacology and Behavioral Disorders (3)

Prerequisite: Grade of B or better in Psychology 260.

Drugs as cause and cure of behavioral problems. A review of drugs commonly used to change behavior in primary schools, psychiatric centers, in-home programs and mental hospitals. (Formerly numbered Psychology 764.)

587. Advanced Principles of Learning and Cognition (3)

Prerequisites: Psychology 211, 270, and 380.

Empirical data, basic principles and theoretical positions of major theorists in learning and cognitive psychology.

596. Selected Topics in Psychology (1-3)

Prerequisites: Psychology 101 and consent of instructor.

Intensive study in specific areas of psychology. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES

Graduate courses in psychology are not open to postbaccalaureate unclassified students.

Priority for enrollment in graduate courses in psychology is given to psychology students who have the courses as requirements in their respective programs.

600. Research Orientation (1) Cr/NC

Prerequisite: Admission to the master's degree program.

Research in psychology. All master's degree students are required to enroll in this course. Maximum credit two units.

605. Seminar in Theoretical Psychology (3)

Prerequisite: Consent of graduate adviser.

Basic nature of theories, their relationships to data, and the characteristics of various types of constructs used in psychological theories.

Course may be repeated provided it is offered by a different instructor and the subject matter is substantially different. To enroll in the seminar for the second time, the student must submit a petition to be approved by the professor of the course and the graduate adviser. Maximum credit six units applicable to a master's degree.

621. Seminar in Personnel Psychology (3)

Prerequisites: Psychology 320 and consent of graduate adviser.

Problems and procedures in selection, classification, and performance appraisal, focusing on testing in industry, the interview, and other selection and assessment devices. Criterion development and measurement methods.

622. Seminar in Organizational Psychology (3)

Prerequisites: Psychology 321 and consent of graduate adviser.

Applications of psychological principles and methods of investigation to problems of industrial relations and motivation of employees; factors influencing morale and employee productivity; criteria of job proficiency; psychological aspects of worker-management relationships and leadership.

630. Seminar in Program Evaluation (3)

Prerequisite: Graduate standing in psychology.

Theory and practice of program evaluation. Surveys concepts, issues, and methods relevant to evaluating programs, services, and interventions in the public and private sectors.

632. Theories and Methods in Developmental Psychology (3)

Prerequisites: Psychology 230 and 331 or 332.

Philosophical and biological origins of developmental psychology. Examination of processes that shape perception, language acquisition, socialization, and cognition.

651. Seminar in Behavior Disorders of Childhood and Adolescence (3)

Prerequisites: Psychology 350 and consent of graduate adviser.

Contemporary approaches to emotional and behavioral problems of childhood and youth. Considers developmental, cognitive and social variables as well as theory and treatment.

652. Seminar in Behavior Disorders of Adults (3)

Prerequisites: Psychology 350 and consent of graduate adviser.

Contemporary approaches to emotional and behavioral problems of adulthood. Considers developmental, cognitive and social variables as well as theory and treatment.

670A-670B. Advanced Statistics in Psychology (3-3)

Two lectures and two hours of activity.

Prerequisites: Psychology 370, 410, a passing score on the departmental statistics placement test, and consent of graduate adviser.

Fundamentals of multiple regression and correlation. Principles of experimental design. Analysis of variance including factorial and repeated-measures designs and a priori and post hoc comparisons including trend analysis. Computer-based statistical packages in the analysis of data from psychological research.

675. Seminar in Psychological Measurement (3)

Prerequisites: Psychology 370 and consent of graduate adviser.

General principles, theory and methods underlying measurement in studies of group and individual differences in controlled experiments.

696. Selected Topics in Psychology (3)

Prerequisite: Consent of instructor.

Intensive study in specific areas of psychology. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units applicable to a master's degree.

700. Seminar (3)

Prerequisite: Consent of graduate adviser.

An intensive study in advanced psychology. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units applicable to a master's degree.

721. Advanced Seminar in Personnel Psychology (3)

Prerequisites: Psychology 621 and consent of master's programs adviser.

Selected areas within personnel psychology including selection, classification, performance appraisal, test development, criterion development, measurement and scaling techniques. Course may be repeated with new content with permission of instructor and master's programs adviser. Maximum credit six units applicable to a master's degree.

722. Advanced Seminar in Organizational Psychology (3)

Prerequisites: Psychology 622 and consent of master's programs adviser.

Selected areas within organizational psychology including leadership, motivation, organizational development, and organizational effectiveness. Course may be repeated with new content with permission of instructor and master's program adviser. Maximum credit six units applicable to a master's degree.

730. Advanced Seminar in Program Evaluation (3)

Prerequisite: Psychology 630.

Examines intellectual foundations, current debates, and innovative methods in program evaluation and their impact on planning, conducting, and using evaluations.

732. Seminar in Developmental Psychology (3)

Prerequisite: Psychology 632.

In-depth examination of a selected aspect of development, such as cognition, social, perceptual or language development or the neural substrates of development.

745. Seminar in Social Psychology (3)

Prerequisite: Consent of graduate adviser. Recommended: Psychology 340 or 412.

Issues of contemporary importance in the field. See Class Schedule for specific content.

Course may be repeated provided it is offered by a different instructor and the subject matter is substantially different. To enroll in the seminar for the second time, the student must submit a petition to be approved by the professor of the course and the graduate adviser. Maximum credit six units applicable to a master's degree.

746. Seminar in Attitudes and Persuasion (3)

Prerequisite: Undergraduate social psychology.

Formation and organization of attitudes. Social influence processes through which attitudes are changed. Relationship between attitudes and overt actions in various behavioral domains.

757. Seminar in Selected Topics in Clinical Psychology (1-3)

Prerequisite: Consent of graduate adviser.

Advanced study of such clinical topics as cognitive behavior therapy, forensic psychology, multiculturalism, ethics, and stress. Topics will vary on a semester basis.

Course may be repeated provided it is offered by a different instructor and the subject matter is substantially different. To enroll in the seminar for the second time, the student must submit a petition to be approved by the professor of the course and the graduate adviser. Maximum credit six units applicable to a master's degree.

760. Seminar in Physiological Correlates of Behavior (3)

Prerequisites: Psychology 260 or six units of biology; and consent of graduate adviser.

An exploration of current research and theory in physiological psychology with emphasis on behavioral correlates and psychophysiology.

Course may be repeated provided it is offered by a different instructor and the subject matter is substantially different. To enroll in the seminar for the second time, the student must submit a petition to be approved by the professor of the course and the graduate adviser. Maximum credit six units applicable to a master's degree.

761. Seminar in Ethology and Comparative Psychology (3)

Prerequisites: Psychology 417 or Biology 354, or Biology 527, and consent of graduate adviser.

Current problems in ethology and comparative animal behavior. Course may be repeated provided it is offered by a different instructor and the subject matter is substantially different. Maximum credit six units applicable to a master's degree.

770A-770B. Experimental Design and Data Analysis in Behavioral Research (3-3)

Two lectures and two hours of activity.

Prerequisites: Psychology 370, 410, a passing score on the departmental statistics placement test, and consent of graduate adviser.

Principles and methods of behavioral research stressing interdependence of experimental design and statistical evaluation of results. General linear model in its regression and ANOVA formulations. Advanced multiple regression and multiple correlation techniques using computer-based statistical packages.

775. Multivariate Statistics in Psychology (3)

Two lectures and two hours of activity.

Prerequisites: Psychology 670A-670B or 770A-770B and consent of instructor.

Introduction to multivariate techniques. Latent structure models with attention to relationship between latent constructs and observable data. Includes causal models, factor analysis (both exploratory and confirmatory), canonical correlation, path analysis, discriminant function analysis, and loglinear analysis.

778. Special Topics in Research Design and Data Analysis in Psychology (3)

Prerequisites: Psychology 670A-670B or 770A-770B and consent of instructor.

Advanced, specialized statistical topics for psychological researchers. Examples include clustering (cluster analysis, multi-dimensional scaling), causal modeling (using LISREL or EQS), analysis of categorical data (emphasizing loglinear and logit models), non-parametric statistics, or analysis of quasi-experimental designs.

790. Practicum in the Teaching of Psychology (1) Cr/NC

Prerequisite: Award of a graduate teaching associateship in psychology.

Supervision in the teaching of psychology, covering lecture writing, style of lecture presentation, in-class demonstration and exercise, test and syllabi construction, and grading system. Not applicable to an advanced degree.

791. Internship in Program Evaluation (1-6) Cr/NC/RP

Up to 20 hours of supervised work per week in a program approved internship setting.

Prerequisites: Psychology 630, and consent of instructor.

Supervised training in program evaluation in a program approved internship setting. Maximum credit six units.

792. Internship in Industrial and Organizational Psychology (1-6) Cr/NC/RP

Up to 20 hours of supervised work per week in a program approved internship setting.

Prerequisite: Consent of instructor. Credit or concurrent registration in Psychology 621 and 622.

Supervised training in industrial and organizational psychology in a program approved internship setting. Maximum credit six units.

797. Research (1-3) Cr/NC/RP

Prerequisite: Consent of graduate adviser.

Research in one of the fields of psychology. Maximum credit six units of 797 and 798 combined applicable to a master's degree.

798. Special Study (1-3) Cr/NC/RP

Prerequisite: Consent of graduate adviser.

Individual projects involving library or laboratory research in any area of psychological investigation or interest. Maximum credit of six units of 797 and 798 applicable to a master's degree.

799A. Thesis (3) Cr/NC/RP

Prerequisites: An officially appointed thesis committee and advancement to candidacy.

Preparation of a project or thesis for the master's degree. Credit is contingent upon acceptance of the completed thesis by the Department of Psychology.

799B. Thesis Extension (0) Cr/NC

Prerequisite: Prior registration in Thesis 799A with an assigned grade symbol of RP.

Registration required in any semester or term following assignment of RP in Course 799A in which the student expects to use the facilities and resources of the university; also student must be registered in the course when the completed thesis is granted final approval.

801. Seminar in History and Ethics in Psychology (3)

Prerequisite: Admission to doctoral program in clinical psychology.

Historical background of modern psychology; in-depth examination of the American Psychological Association code of ethics and its application to the conduct of clinical psychologists.

820. Seminar in Cultural Psychology (3)

Prerequisite: Admission to doctoral program in clinical psychology.

Cultural origins of human behavior; cultural limits of psychological knowledge.

833. Seminar in Developmental Psychopathology (3)

Prerequisite: Admission to doctoral program in clinical psychology. Research and theory in biological and social origins of psychopathology. Methods of assessing developmental change and stability, issues related to vulnerability and resiliency, developmental appropriateness of approaches to interventions, and role of culture as a developmental context.

840. Seminar in Personality and Social Psychology (3)

Prerequisite: Admission to doctoral program in clinical psychology. Research and theory in personality and social psychology. Theories of personality and individual differences, group processes, sex roles, social perception, and cross-cultural issues.

841. Seminar in Biobehavioral Foundations in Behavioral Medicine (3)

Prerequisite: Admission to doctoral program in clinical psychology or approval by instructor and program director.

Basic physiological and learning processes in health and disease to develop understanding related to clinical and research practice in field. Preparation for Psychology 842.

842. Behavioral Medicine Seminar: Assessment (3)

Prerequisites: Admission to the doctoral program, or approval by instructor and program director, and Psychology 841.

Assessment methods and issues in behavioral medicine. Development and implementation of assessment plans. Theoretical and practical aspects of psychological, behavioral, and physiological assessment methods for various health issues.

843. Behavioral Medicine Seminar: Intervention (3)

Prerequisites: Admission to the doctoral program and Psychology 842.

Design and implement interventions by stressing empirically supported approaches to improve health and change health behaviors. Strengths and weaknesses of clinical community interventions.

849. Seminar and Laboratory in Counseling and Psychotherapy (4)

Two lectures and six hours of laboratory.

Prerequisite: Consent of graduate adviser.

Supervised practice in application of psychotherapeutic and counseling techniques from selected cognitive, dynamic, interpersonal, and behavioral approaches. Open only to students accepted in the doctoral program.

850. Seminar in Theory and Practice in Clinical Interventions (3)

Prerequisite: Admission to doctoral program in clinical psychology.

Theory and application of clinical interventions, advanced study of interviewing techniques, behavioral interventions, cognitive/behavioral interventions, and family/child interventions.

852. Seminar in Experimental Psychopathology Research (4)

Prerequisites: Admission to the doctoral program in clinical psychology.

Analysis of experimental and theoretical literature as it pertains to research methodology for the study of disordered behavior.

853. Advanced Seminar in Experimental Psychopathology (4)

Prerequisite: Admission to the doctoral program in clinical psychology.

Research design paradigms and methodological considerations used in conducting research in psychologically disordered groups. Strategies in the assessment of disordered groups.

855. Seminar in Psychological Assessment I (4)

Two lectures and six hours of laboratory.

Prerequisites: Psychology 350, 370, and consent of graduate adviser.

Theory and practice in assessment of intelligence and special abilities. Open only to students accepted in the doctoral program.

856. Seminar in Psychological Assessment II (4)

Two lectures and six hours of laboratory.

Prerequisites: Psychology 855 and consent of graduate adviser. Theory and practice in assessment of special abilities, personality and behavior disorders. Open only to students accepted in the doctoral program.

860. Seminar in Physiological Foundations of Behavior (3)

Prerequisite: Admission to doctoral program in clinical psychology.

Research and theory in physiological psychology. Advanced study of biological rhythms, sleep and waking, stress responses, the neurophysiology of learning and memory, and research methods in physiological psychology.

894. Clinical Internship (3-15)

Prerequisites: Completion of coursework, second year project, and advancement to candidacy.

Clinical training in an APA-approved internship setting.

895. Practicum in the Teaching of Psychology (1-6) Cr/NC

Prerequisite: Admission to doctoral program in clinical psychology.

Supervision in the teaching of psychology, covering lecture writing, style of lecture presentation, in-class demonstration and exercises, test and syllabi construction, and grading systems.

896. Clinical Practicum (1-15)

Prerequisite: Admission to the doctoral program.

Supervision of advanced intervention strategies applied to clinical populations.

897. Doctoral Research (1-15) Cr/NC/RP

Prerequisite: Admission to the doctoral program.

Independent investigation in the general field of the dissertation.

898. Doctoral Special Study (1-8) Cr/NC/RP

Prerequisite: Admission to the doctoral program.

Individual study in the field of specialization. Maximum credit eight units applicable to the doctoral degree.

899. Doctoral Dissertation (1-15) Cr/NC/RP

Prerequisites: An officially constituted dissertation committee and advancement to candidacy.

Preparation of the dissertation for the doctoral degree. Enrollment is required during the term in which the dissertation is approved.
