Psychology

Psychology as a scientific discipline aims to describe, understand, and predict the behavior of living organisms. In doing so, psychology embraces the many factors that influence behavior—from sensory experience to complex cognition, from the role of genetics to that of social and cultural environments, from the processes that explain behavior in early childhood to those that operate in older ages, and from typical development to pathological conditions. The Department of Psychology at Berkeley reflects the diversity of our discipline’s mission covering six key areas of research: Behavioral and Systems Neuroscience; Clinical Science; Cognition; Cognitive Neuroscience; Developmental, and Social-Personality Psychology. Our program learning goals focus on honing methodological, statistical and critical thinking skills relevant to all areas of Psychology research, enabling students with sufficient breadth to retain perspective in the field of psychology and sufficient depth to permit successful independent and significant research.

The major academic objectives of the PhD program are for students to:

• Develop an understanding of the different theoretical and empirical frameworks that have defined and shaped the field
• Develop an understanding of the central questions and issues in contemporary psychology
• Develop expertise in one or more relevant research methodologies
• Build expertise in formulating testable hypotheses and designing appropriate studies
• Hone ability to critically evaluate scientific research
• Develop expertise in statistics and advanced data analytic approaches
• Develop an awareness of the importance of science to humanity while recognizing its limits (i.e., some scientific knowledge is culture-specific and may not be applicable to the human condition universally)
• Develop competence as a teacher of undergraduates and mentor to graduate students

Students select one of the following concentrations:

Behavioral and Systems Neuroscience: The Behavioral and Systems Neuroscience area encompasses faculty and students united by a common interest in the neurobiological/physiological bases of behavior, including but not limited to circadian and seasonal rhythms, decision-making, sex differentiation and behavior, energy balance, birdsong and animal communication, animal spatial orientation and navigation, gene-environment interactions, selective attention and visual perception, social behavior, attachment, developmental processes, physiological substrates of emotion and stress, and motivation. The methodologies currently employed by faculty and students cover the entire spectrum from the behavioral study of animals and humans to computational, cellular, molecular and neuroimaging analyses.

Clinical Science: Graduate students in Clinical Science combine rigorous research with hands-on clinical experience. In addition, students take courses that cover general areas of psychological science as well as more specialized areas based on a student’s interests. Most students will spend four to six years in residence at Berkeley plus one year at a Clinical Internship site, at or near the completion of the dissertation. Degrees are awarded after completion of the internship, even if the dissertation is completed earlier. The faculty advisor/mentor plays an important role in a student’s training. At the beginning of Year 1, each student is matched with a faculty advisor, usually one of the core Clinical Science Program Faculty, who supervises the student’s research. In subsequent years, the student is free to continue working with that person or to seek a new research advisor. In addition to research supervision, the advisor works with the student in planning a program that fits that student’s interests, while at the same time meeting program requirements. If a student is conducting research under the supervision of someone other than a core Clinical Science Program Faculty member (e.g., a faculty member in another area of the Psychology Department), then a core Clinical Science Program Faculty member is assigned to advise that student in matters related program requirements.

Cognition: The Cognition Program brings together faculty and students engaged in behavioral and computational investigations of fundamental cognitive processes, including learning, memory, categorization, reasoning, language, and perception. Our interdisciplinary approach borrows methods and insights from the cognitive sciences and other areas within the department.

Cognitive Neuroscience: Programs in Cognitive Neuroscience focus on neuroimaging and neuropsychological approaches to human behavior. Functional neuroimaging techniques, such as magnetic resonance imaging (MRI) and electroencephalography (EEG), are used to study the neural bases of human behavior. Neuropsychological methods assess varieties of psychological dysfunction associated with brain damage or disease. Areas of specialty within this track include Sensory and Perceptual Processes, Attention and Working Memory, Learning and Memory, Emotion, and Motor Control.

Developmental: Our research goal is to understand how the organism and its capabilities develop throughout the lifespan. Our interdisciplinary approach is multi-species, multi-system, and multidisciplinary in nature. We study change over time in cognitive, linguistic, social, emotional, and neural processes. Our explanations include both neural accounts of the plasticity that is observed in the developing brain and other systems, and computational and psychological accounts of development. The bi-directionality of these processes is emphasized, with the organism's genetically program development being influenced by its physical and social environments and in turn influencing those environments. Thus, our research is situated at the interface between the fields of developmental psychology, computational modeling, psycholinguistics, cognitive psychology, developmental cognitive neuroscience, social psychology, cultural psychology, and clinical psychology. Our research examines numerous areas of development, plasticity, and change including sensory processes, cognitive capacities, language, reasoning, everyday knowledge of the world, emotions, and social relationships. We examine both typical and atypical development, each providing rich insights for better understanding the other and suggesting new approaches for effective treatments and preventive interventions.

Social-Personality Psychology: The social-personality program is devoted to training graduate students for careers in research and teaching. The program faculty and several affiliates conduct research and provide intensive training in six core areas of the field: (1) Self, identity, and culture; (2) Social cognition; (3) Emotion regulation, and affective neuroscience; (4) Personality processes and adult development; (5) Relationships and intergroup processes; and (6) Power, hierarchy, and social class. In addition to training in these
core areas, the program encourages graduate students to develop their own research interests and build an independent research program. The area has a dual mentorship model where students are expected to work with two program faculty, one serving as the primary, the other as the secondary mentors. This approach to mentorship facilitates the mastery of multiple perspectives and methodologies in students’ chosen area of specialization. The program is characterized by considerable breadth and diversity. It provides students with special research opportunities, such as access to unique longitudinal databases, interdisciplinary training grants (e.g., affective science), multi-method approaches (self-report, observational, archival, life-data, physiological), and biological perspectives on social behavior (e.g., evolutionary, neuroimaging).

Admission to the University

Minimum Requirements for Admission

The following minimum requirements apply to all graduate programs and will be verified by the Graduate Division:

1. A bachelor’s degree or recognized equivalent from an accredited institution;
2. A grade point average of B or better (3.0);
3. If the applicant comes from a country or political entity (e.g., Quebec) where English is not the official language, adequate proficiency in English to do graduate work, as evidenced by a TOEFL score of at least 90 on the iBT test, 570 on the paper-and-pencil test, or an IELTS Band score of at least 7 (note that individual programs may set higher levels for any of these); and
4. Sufficient undergraduate training to do graduate work in the given field.

Applicants Who Already Hold a Graduate Degree

The Graduate Council views academic degrees not as vocational training certificates, but as evidence of broad training in research methods, independent study, and articulation of learning. Therefore, applicants who already have academic graduate degrees should be able to pursue new subject matter at an advanced level without need to enroll in a related or similar graduate program.

Programs may consider students for an additional academic master’s or professional master’s degree only if the additional degree is in a distinctly different field.

Applicants admitted to a doctoral program that requires a master’s degree to be earned at Berkeley as a prerequisite (even though the applicant already has a master’s degree from another institution in the same or a closely allied field of study) will be permitted to undertake the second master’s degree, despite the overlap in field.

The Graduate Division will admit students for a second doctoral degree only if they meet the following guidelines:

1. Applicants with doctoral degrees may be admitted for an additional doctoral degree only if that degree program is in a general area of knowledge distinctly different from the field in which they earned their original degree. For example, a physics PhD could be admitted to a doctoral degree program in music or history; however, a student with a doctoral degree in mathematics would not be permitted to add a PhD in statistics.
2. Applicants who hold the PhD degree may be admitted to a professional doctorate or professional master’s degree program if there is no duplication of training involved.

Applicants may apply to only one single degree program or one concurrent degree program per admission cycle.

Required Documents for Applications

1. Transcripts: Applicants may upload unofficial transcripts with your application for the departmental initial review. If the applicant is admitted, then official transcripts of all college-level work will be required. Official transcripts must be in sealed envelopes as issued by the school(s) attended. If you have attended Berkeley, upload your unofficial transcript with your application for the departmental initial review. If you are admitted, an official transcript with evidence of degree conferral will not be required.

2. Letters of recommendation: Applicants may request online letters of recommendation through the online application system. Hard copies of recommendation letters must be sent directly to the program, not the Graduate Division.

3. Evidence of English language proficiency: All applicants from countries or political entities in which the official language is not English are required to submit official evidence of English language proficiency. This applies to applicants from Bangladesh, Burma, Nepal, India, Pakistan, Latin America, the People’s Republic of China, Taiwan, Japan, Korea, Southeast Asia, most European countries, and Quebec (Canada). However, applicants who, at the time of application, have already completed at least one year of full-time academic course work with grades of B or better at a US university may submit an official transcript from the US university to fulfill this requirement. The following courses will not fulfill this requirement:
   • courses in English as a Second Language,
   • courses conducted in a language other than English,
   • courses that will be completed after the application is submitted, and
   • courses of a non-academic nature.

If applicants have previously been denied admission to Berkeley on the basis of their English language proficiency, they must submit new test scores that meet the current minimum from one of the standardized tests.

Where to Apply

Visit the Berkeley Graduate Division application page (http://grad.berkeley.edu/admissions/apply).

Admission to the Program

The Department of Psychology invites applications from students who are primarily interested in research. Applicants for the Psychology PhD are required to specify the area to which they wish to apply: Behavioral and Systems Neuroscience; Clinical Science; Cognition; Cognitive Neuroscience; Developmental; and Social-Personality. Applicants are required to name at least one faculty member with whom they wish to work.

Applicants must hold a bachelor’s degree or its equivalent from an institution of acceptable standing, and may hold a master in psychology or another field. Previous concentration in psychology is not required. The department does not have an application for a terminal master’s degree: PhD only.
Normative Time Requirements

Normative Time in the Program
Normative time in the Department of Psychology for doctoral degree completion is 10 semesters, and normative time in candidacy is 4 semesters. (See departmental website for details.)

Step I: Students take courses, narrow down their interests to particular areas of specialization, and begin research projects. This takes approximately 1 year.

Step II: Students complete majority of course requirements and prepare for their written and oral Qualifying Examination. This takes approximately 1-2 years.

Step III: Students undertake research for the PhD dissertation under a 3-4 person committee in charge of their research and dissertation. Students do original research and write up the dissertation based on their results. On completion of course requirements and approval of the dissertation by the committee, students are awarded the doctorate. This takes approximately 2 years.

Time to Advancement

Curriculum

Behavioral and Systems Neuroscience Concentration

Courses Required

- PSYCH 299 Research (all semesters in residence) 1-12
- PSYCH Colloquium - Select one each semester in residence from the following:
  - PSYCH 229A Cognition Colloquium
  - or PSYCH 229F Cognitive Neuroscience Colloquium
  - PSYCH 239 Clinical Seminar
  - PSYCH 249 Developmental Seminar
  - PSYCH 259 Personality Seminar
  - PSYCH 269 Social Seminar
  - PSYCH 292 Introduction to the Profession of Psychology 2
  - PSYCH 205 Data Analysis 3
  - PSYCH 206 Structural Equation Modeling (or an advanced data analysis course from another department) 3
  - PSYCH 293 Second-Year Seminar on Professional Development (Includes Second-Year Research Poster requirement) 2
  - PSYCH 375 Teaching Psychology 2

Additional Courses Required for Concentration

- PSYCH 210B Proseminar: Cognition, Brain, and Behavior 3
- Select two of the following: 6
  - PSYCH 210A Proseminar: Cognition, Brain, and Behavior
  - PSYCH 210C Proseminar: Cognition, Brain, and Behavior
  - PSYCH 210D Proseminar: Cognition, Brain, and Behavior
  - PSYCH 210E Proseminar: Cognition, Brain, and Behavior
- PSYCH 290 Series Topic Seminars (4 semesters) 8

Clinical Science Concentration

Courses Required

- PSYCH 299 Research (all semesters in residence) 1-12
- PSYCH Colloquium - Select one each semester in residence from the following:
  - PSYCH 229A Cognition Colloquium
  - or PSYCH 229F Cognitive Neuroscience Colloquium
  - PSYCH 239 Clinical Seminar
  - PSYCH 249 Developmental Seminar
  - PSYCH 259 Personality Seminar
  - PSYCH 269 Social Seminar
  - PSYCH 292 Introduction to the Profession of Psychology 2
  - PSYCH 205 Data Analysis 3
  - PSYCH 206 Structural Equation Modeling (or an advanced data analysis course from another department) 3
  - PSYCH 293 Second-Year Seminar on Professional Development (Includes Second-Year Research Poster requirement) 2
  - PSYCH 375 Teaching Psychology 2

Additional Courses Required for Concentration

- PSYCH 210B Proseminar: Cognition, Brain, and Behavior 3
- Select three of the following: 9
  - PSYCH 210A Proseminar: Cognition, Brain, and Behavior
  - PSYCH 210B Proseminar: Cognition, Brain, and Behavior
  - PSYCH 210C Proseminar: Cognition, Brain, and Behavior
  - PSYCH 210D Proseminar: Cognition, Brain, and Behavior
  - PSYCH 210E Proseminar: Cognition, Brain, and Behavior
- PSYCH 290 Series Topic Seminars (4 semesters) 8
Developmental Concentration

Courses Required

PSYCH 299 Research (all semesters in residence) 1-12
PSYCH Colloquium - Select one each semester in residence from the following:

- PSYCH 229A Cognition Colloquium
- or PSYCH 229B Cognitive Neuroscience Colloquium
- PSYCH 239 Clinical Seminar
- PSYCH 249 Developmental Seminar
- PSYCH 259 Personality Seminar
- PSYCH 269 Social Seminar
- PSYCH 292 Introduction to the Profession of Psychology 2
- PSYCH 205 Data Analysis 3
- PSYCH 206 Structural Equation Modeling (or an advanced data analysis course from another department) 3
- PSYCH 293 Second-Year Seminar on Professional Development (Includes 2nd-Year Research Poster requirement) 2
- PSYCH 375 Teaching Psychology 2

Additional Courses Required for Concentration

- PSYCH 240A Proseminar: Biological, Cognitive, and Language Development 3
- PSYCH 240B Proseminar: Emotional, Social, and Psychopathological Development 3
- PSYCH 290 Series Topic Seminars (3 semesters) 6

Social-Personality Concentration

Courses Required

PSYCH 299 Research (all semesters in residence) 1-12
PSYCH Colloquium - Select one each semester in residence from the following:

- PSYCH 229A Cognition Colloquium
- or PSYCH 229B Cognitive Neuroscience Colloquium
- PSYCH 239 Clinical Seminar
- PSYCH 249 Developmental Seminar
- PSYCH 259 Personality Seminar
- PSYCH 269 Social Seminar
- PSYCH 292 Introduction to the Profession of Psychology 2
- PSYCH 205 Data Analysis 3
- PSYCH 206 Structural Equation Modeling (or an advanced data analysis course from another department) 3
- PSYCH 293 Second-Year Seminar on Professional Development (Includes Second-Year Research Poster requirement) 2
- PSYCH 375 Teaching Psychology 2

Additional Courses Required for Concentration

- PSYCH 250A Perspectives in Personality: Overview 3
- PSYCH 250D Principles and Pragmatics of Personality Measurement 3
- PSYCH 260B Proseminar Course in Social Psychology 3
- PSYCH 290 Series Topic Seminars (3 semesters) 6

Additional Program Requirements

- Second-Year Poster Presentation
- Third-Year Paper Requirement
- Qualifying Examination
- CITI Protocol Course Certifications
- Internship, Field Work, or Practicum--Clinical Science only
- Clinical Practice--Clinical Science only

Time in Candidacy

- Dissertation Proposal
- Dissertation
- Dissertation Presentation/Exit Talk

Professional Development

- PSYCH 292, PSYCH 293, and PSYCH 375
- Presentations
- Teaching
- Professional Conference Attendance
- Workshops

Psychology

PSYCH 205 Data Analysis 3 Units

Terms offered: Spring 2018, Spring 2017, Fall 2015

This course serves both as a refresher for undergraduate statistics and as a preparation for more advanced courses. This course will cover fundamental principles of statistical thinking including probability theory, distributions, modeling, parameter fitting, error estimation, statistical significance and cross-validation. In addition, the course will cover all statistical tests that are part of the generalized mixed effect models: n-way analysis of variance (ANOVA), multiple regression, analysis of covariance, logistic regression, between subjects, within subjects, mixed designs and designs with random factors. Students will also be introduced to statistical programming using the computer language R. Data Analysis: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Psychology/Graduate

Grading: Letter grade.

Data Analysis: Read Less [-]
PSYCH 206 Structural Equation Modeling 3 Units
Terms offered: Spring 2017, Spring 2015
This course is intended to provide an introduction to the principles and practice of structural equation modeling, including matrix algebra, LISREL notation, measurement models and confirmatory factor analysis (CFA), path models, and structural models. In addition, we will cover multiple ways to handle longitudinal data (e.g., latent growth and simplex models) and advanced topics such as mediation and latent variable interactions. Data analytic examples and assignments will come from psychological research applications. Students will be strongly encouraged to incorporate their own data as well.

Rules & Requirements
Prerequisites: Psychology 205

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

PSYCH 210A Proseminar: Cognition, Brain, and Behavior 3 Units
Terms offered: Spring 2018, Fall 2017, Spring 2016
A survey of the field of biological psychology. Areas covered are (a) cognitive neuroscience; (b) biological bases of behavior; (c) sensation and perception; (d) learning and memory; (e) thought and language.

Rules & Requirements
Prerequisites: Consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

PSYCH 210B Proseminar: Cognition, Brain, and Behavior 3 Units
Terms offered: Fall 2017, Fall 2015, Fall 2013
A survey of the field of biological psychology. Areas covered are (a) cognitive neuroscience; (b) biological bases of behavior; (c) sensation and perception; (d) learning and memory; (e) thought and language.

Rules & Requirements
Prerequisites: Consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

PSYCH 210C Proseminar: Cognition, Brain, and Behavior 3 Units
Terms offered: Spring 2011, Spring 2010, Spring 2009
A survey of the field of biological psychology. Areas covered are (a) cognitive neuroscience; (b) biological bases of behavior; (c) sensation and perception; (d) learning and memory; (e) thought and language.

Rules & Requirements
Prerequisites: Consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.
PSYCH 210D Proseminar: Cognition, Brain, and Behavior 3 Units
Terms offered: Fall 2014, Fall 2012, Fall 2008
A survey of the field of biological psychology. Areas covered are (a) cognitive neuroscience; (b) biological bases of behavior; (c) sensation and perception (d) learning and memory, (e) thought and language. Proseminar: Cognition, Brain, and Behavior: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.
Proseminar: Cognition, Brain, and Behavior: Read Less [-]

PSYCH 210E Proseminar: Cognition, Brain, and Behavior 3 Units
Terms offered: Fall 2015, Fall 2013, Spring 2013
A survey of the field of biological psychology. Areas covered are (a) cognitive neuroscience; (b) biological bases of behavior; (c) sensation and perception (d) learning and memory, (e) thought and language. Proseminar: Cognition, Brain, and Behavior: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.
Formerly known as: 220C

Proseminar: Cognition, Brain, and Behavior: Read Less [-]

PSYCH 214 Functional MRI Methods 3 Units
Terms offered: Fall 2016, Fall 2015, Fall 2014
This is a hands-on course teaching the principles of functional MRI (fMRI) data analysis. We will teach you how to work with data and code to get a deeper understanding of how fMRI methods work, how they can fail, how to fix them, and how to develop new methods. We will cover the basic concepts in neuroimaging analysis, and how they relate to the wider world of statistics, engineering and computer science. At the same time we will teach you techniques of data analysis that will make your work easier to organize, understand, explain and share. At the end of the course we expect you to be able to analyze fMRI data using Python and keep track of your work with version control using git.

Functional MRI Methods: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Functional MRI Methods: Read Less [-]

PSYCH 222 Consciousness 3 Units
Terms offered: Spring 2013, Spring 2011, Spring 2010

Consciousness: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Formerly known as: 220B

Consciousness: Read Less [-]
**PSYCH C223 Proseminar: Problem Solving and Understanding 3 Units**
Terms offered: Spring 2018, Spring 2016, Spring 2015, Fall 2013, Spring 2011
Students will examine problem solving in children and adults, from a predominantly cognitive science perspective, beginning with an examination of thinking involved in diverse problem types. Students will then analyze the literature concerning cognitive issues that transcend problem types, including representation, “understanding,” access and availability of knowledge, access to one’s own cognitive processing, categorization, the architecture of knowledge, and the control of cognition.

Proseminar: Problem Solving and Understanding: Read More [+]

**Rules & Requirements**

**Prerequisites:** Consent of instructor

**Hours & Format**

Fall and/or spring: 15 weeks - 3 hours of lecture per week

**Additional Details**

**Subject/Course Level:** Psychology/Graduate

**Grading:** Letter grade.

Also listed as: EDUC C229A

Proseminar: Problem Solving and Understanding: Read Less [-]

**PSYCH 229 Cognition, Brain, and Behavior Colloquium 1 Unit**
Terms offered: Spring 2015, Fall 2014, Spring 2014
Reports and discussions of original research in the area of cognitive psychology. Not all participants must report in any given semester, but all are expected to attend and to enter into the discussions. Required course for all students in the cognition, brain, and behavior graduate program.

Cognition, Brain, and Behavior Colloquium: Read More [+]

**Rules & Requirements**

**Prerequisites:** Graduate standing or consent of instructor

**Repeat rules:** Course may be repeated for credit without restriction.

**Hours & Format**

Fall and/or spring: 15 weeks - 1.5 hours of colloquium per week

**Additional Details**

**Subject/Course Level:** Psychology/Graduate

**Grading:** Offered for satisfactory/unsatisfactory grade only.

Cognition, Brain, and Behavior Colloquium: Read Less [-]

**PSYCH 229A Cognition Colloquium 1 Unit**
Terms offered: Spring 2018, Fall 2017, Spring 2017
Reports and discussions of original research in the area of cognitive psychology, by guest speakers, UCB faculty, and graduate students. Topics change depending on the speaker. Not all participants must report in any given semester, but all are expected to attend and to enter into the discussions. Required course for all students in the cognition area graduate program.

Cognition Colloquium: Read More [+]

**Rules & Requirements**

**Prerequisites:** Graduate standing or consent of instructor

**Repeat rules:** Course may be repeated for credit without restriction.

**Hours & Format**

Fall and/or spring: 15 weeks - 1.5 hours of colloquium per week

**Additional Details**

**Subject/Course Level:** Psychology/Graduate

**Grading:** Offered for satisfactory/unsatisfactory grade only.

Cognition Colloquium: Read Less [-]

**PSYCH 229B Cognitive Neuroscience Colloquium 1 Unit**
Terms offered: Spring 2018, Fall 2017, Spring 2017
Reports and discussions of original research in the area of cognitive neuroscience by guest speakers, UCB faculty, and graduate students. Topics will vary depending on the speaker. Not all participants must report in any given semester, but all are expected to attend and to enter into the discussions. Required course for all students in the cognitive neuroscience area graduate program.

Cognitive Neuroscience Colloquium: Read More [+]

**Rules & Requirements**

**Prerequisites:** Graduate standing or consent of instructor

**Repeat rules:** Course may be repeated for credit without restriction.

**Hours & Format**

Fall and/or spring: 15 weeks - 1.5 hours of colloquium per week

**Additional Details**

**Subject/Course Level:** Psychology/Graduate

**Grading:** Offered for satisfactory/unsatisfactory grade only.

Cognitive Neuroscience Colloquium: Read Less [-]
PSYCH 230 Proseminar: Clinical Psychology
3 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
This course is a review of the history and theory of the field of clinical psychology. The course covers adult and child psychopathology, ethnic minority mental health, culture, and community influences.

Rules & Requirements
Prerequisites: Required of all 1st-year Clinical Science Program graduate students

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Formerly known as: 230A-230B
Proseminar: Clinical Psychology: Read Less [-]

PSYCH 231 Clinical Neuroscience 2 Units
Terms offered: Spring 2015, Fall 2014
This course examines how psychology, neuroscience, pharmacology, and medicine come together to understand psychiatric and neurological disorders, and through this understanding, develop and deliver evidence-based treatments. Class format consists of attending patient care clinics, lectures, paper reviews and class discussions.

Rules & Requirements
Prerequisites: Open only to Clinical Science Program graduate students or with the consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 0-3 hours of seminar and 3-0 hours of clinic per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.
Clinical Neuroscience: Read Less [-]

PSYCH 232 History, Systems, and Diversity in Psychology 1 Unit
Terms offered: Spring 2000, Spring 1997
The overall goal of the course is to enhance your critical thinking and your knowledge of the historical views in clinical psychology. One of the concerns about United States psychology theory and research historically has been a focus on Eurocentric ideas and contributions. Accordingly, several weeks of this class will be focused on enriching your understanding of some key perspectives on diversity in psychology.

Rules & Requirements
Prerequisites: This class is required of clinical science graduate students

Credit Restrictions: This class is required of clinical science graduate students. Students from other programs and other departments will be able to take part if space is available.

Hours & Format
Fall and/or spring: 15 weeks - 1 hour of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

History, Systems, and Diversity in Psychology: Read Less [-]

PSYCH 233A Clinical Assessment: Theory, Application, and Practicum 3 Units
Terms offered: Spring 2018, Spring 2016, Spring 2013
The clinical interview and principles and methods of intellectual, objective, and projective clinical assessment. Readings, discussion, and supervised experience in clinical assessment. The first semester will focus on adult assessments; the second semester will focus on child/adolescent assessments. Required of all clinical students.

Rules & Requirements
Prerequisites: First-year status as graduate student in clinical psychology or enrollment in limited training in clinical psychology

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.
Clinical Assessment: Theory, Application, and Practicum: Read Less [-]
PSYCH 233B Clinical Assessment: Theory, Application, and Practicum 3 Units
Terms offered: Spring 2017, Spring 2015, Spring 2012
The clinical interview and principles and methods of intellectual, objective, and projective clinical assessment. Readings, discussion, and supervised experience in clinical assessment. The first semester will focus on adult assessments; the second semester will focus on child/adolescent assessments. Required of all clinical students.

PSYCH 233B: Clinical Assessment: Theory, Application, and Practicum: Read More [+]

Rules & Requirements
Prerequisites: First year status as graduate student in clinical psychology or enrollment in limited training in clinical psychology

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Clinical Assessment: Theory, Application, and Practicum: Read Less [-]

PSYCH 234D Theories of Cognitive Behavior Therapy 3 Units
Terms offered: Fall 2016, Fall 2013, Spring 2009
Central features of cognitive behavior therapy; basics of several cognitive-behavioral theories; evidence of efficacy and effectiveness of methods; methods for assessing, conceptualizing and treating patients; theories, methods, and efficacy evidence for several disorders, primarily anxiety and affective disorders.

Theories of Cognitive Behavior Therapy: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Theories of Cognitive Behavior Therapy: Read Less [-]

PSYCH 236 Specialty Clinic 3 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
A Specialty Clinic is offered to graduate students in the Clinical Science program. Each course combines didactics and hands-on clinical work. Students in the course work with the instructor to develop the topic of interest by reviewing the empirical literature, defining and developing an intervention/consultation, defining a clinical population, marketing and delivering the intervention/consultation, and evaluating the effectiveness of the intervention/consultation. A number of readings are included in the course, and class discussion is a central part of the course. Written products are also a part of the course, either in the form of a presentation or publication of findings from the clinic. A Specialty Clinic also includes its own Case Conference and supervisors to handle supervision of the clinical cases.

Specialty Clinic: Read More [+]

Rules & Requirements
Prerequisites: Open only to Clinical Science Program graduate students

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of clinic per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Specialty Clinic: Read Less [-]

PSYCH 237E Professional Development in Clinical Science 3 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
Issues in decisions about providing psychological services to individuals, families, groups and social systems.

Professional Development in Clinical Science: Read More [+]

Rules & Requirements
Prerequisites: Limited to second and third year clinical psychology students or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Professional Development in Clinical Science: Read Less [-]
PSYCH 237F Intervention: Couples Therapy 1 Unit
Terms offered: Fall 2012, Fall 2011, Fall 2010
Psychological intervention with couples.

Rules & Requirements
Prerequisites: Limited to second- and third-year clinical psychology students or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

PSYCH 237G Intervention: Specialty Clinics 1 or 2 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
Psychological intervention with and evaluation of specially designated populations.

Rules & Requirements
Prerequisites: Limited to second- and third-year clinical psychology students or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1-2 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

PSYCH 237H Intervention: Introduction to Clinical Methods 3 Units
This course is an introduction to clinical methods in preparation for the clinical practicum in the Psychology Clinic during the second and third years of the clinical graduate program. Topics covered include clinical policies and procedures, legal and ethical issues, risk management, standards of care, HIPAA, and consultations.

Rules & Requirements
Prerequisites: Limited to first-year clinical psychology students or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

PSYCH 239 Clinical Seminar 1 Unit
Terms offered: Spring 2018, Fall 2017, Spring 2017
Reports and discussions of original research in the area of clinical psychology. Not all participants need report in any given semester, but all are expected to attend and to enter into the discussions. Required course for all students in the clinical graduate program.

Rules & Requirements
Prerequisites: Graduate standing or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1.5 hours of seminar per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
PSYCH 240A Proseminar: Biological, Cognitive, and Language Development 3 Units
Terms offered: Spring 2018, Spring 2016, Fall 2013
Survey of the biology of the nervous system and behavior; the cellular interactions during development in animals and humans, including neurogenesis, synaptogenesis, cell death and synapse elimination; and the genetic and experiential determinants of neural development. Exploration of the origins and development of knowledge from infancy through childhood; the development of children's concepts across multiple domains including physics, biology, math, and psychology. Survey of facts and theories of language acquisition; focus on what learners acquire and the role of input in the process; review of phonology, syntax, and morphology.
Proseminar: Biological, Cognitive, and Language Development: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

PSYCH 249 Developmental Seminar 1 Unit
Terms offered: Spring 2018, Fall 2017, Spring 2017
Reports and discussions of original research in the area of developmental psychology. Not all participants need report in any given semester, but all are expected to attend and to enter into the discussions. Required course for all students in the developmental graduate program.
Developmental Seminar: Read More [+]

Rules & Requirements
Prerequisites: Graduate standing or consent of instructor
Repeat rules: Not repeatable for credit.

Hours & Format
Fall and/or spring: 15 weeks - 1.5 hours of seminar per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.

PSYCH 250A Perspectives in Personality: Overview 3 Units
Terms offered: Fall 2017, Fall 2016, Fall 2013
Introduces the perspectives and research programs of the personality faculty to graduate students having an interest in their field. Each week, attention is directed to the work of a different faculty member associated with the personality program.
Perspectives in Personality: Overview: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

PSYCH 249 Developmental Seminar 1 Unit
Terms offered: Spring 2018, Fall 2017, Spring 2017
Reports and discussions of original research in the area of developmental psychology. Not all participants need report in any given semester, but all are expected to attend and to enter into the discussions. Required course for all students in the developmental graduate program.
Developmental Seminar: Read More [+]

Rules & Requirements
Prerequisites: Graduate standing or consent of instructor
Repeat rules: Not repeatable for credit.

Hours & Format
Fall and/or spring: 15 weeks - 1.5 hours of seminar per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.

PSYCH 250A Perspectives in Personality: Overview 3 Units
Terms offered: Fall 2017, Fall 2016, Fall 2013
Introduces the perspectives and research programs of the personality faculty to graduate students having an interest in their field. Each week, attention is directed to the work of a different faculty member associated with the personality program.
Perspectives in Personality: Overview: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

PSYCH 250B Perspectives in Personality: Trends and Issues 3 Units
Terms offered: Spring 2018, Spring 2016, Spring 2014
Considers historical trends and current discussions regarding such topics as (1) the concept of disposition; (2) person by environment transactions; (3) observational assessment of persons; (4) personality systematics; (5) personality development and concepts of structure, and (6) formulations of personality system-social system interactions.
Perspectives in Personality: Trends and Issues: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Perspectives in Personality: Trends and Issues: Read Less [-]
PSYCH 250C Proseminar: Social Cognition 3 Units
Terms offered: Spring 2014, Fall 2012, Spring 2010
Surveys empirical and theoretical approaches to our understanding of perception, memory, thought, and language concerning ourselves, other people, interpersonal behavior, and the situations in which social interaction takes place. Emphasis is placed on the integration of problems in social, personality, and clinical psychology with the concepts and principles employed in the study of nonsocial cognition.

PSYCH 250D Principles and Pragmatics of Personality Measurement 3 Units
Terms offered: Spring 2016, Spring 2014, Fall 2013
Methods of personality measurement and assessment, with particular attention to the qualities, attributes, talents and dispositions considered in the everyday evaluations people make of self and others.

PSYCH 259 Personality Seminar 1 Unit
Terms offered: Spring 2018, Fall 2017, Spring 2017
Reports and discussions of original research in the area of personality psychology. Not all participants need report in any given semester, but all are expected to attend and to enter into the discussions. Required course for all students in the personality graduate program.

PSYCH 260B Proseminar Course in Social Psychology 3 Units
Terms offered: Spring 2017, Fall 2015, Spring 2012
Extensive coverage of theoretical and research literature. Topics include history and systems, attitudes and attitude change, interpersonal processes, motivation, social interaction, small groups, and organizational behavior. Required course for all students in the social graduate program.

PSYCH 269 Social Seminar 1 Unit
Terms offered: Spring 2018, Fall 2017, Spring 2017
Reports and discussions of original research in the area of social psychology. Not all participants need report in any given semester, but all are expected to attend and to enter into the discussions. Required for all students in the social graduate program.
PSYCH 290B Seminars: Biological 2 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
Seminars: Biological: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Seminars: Biological: Read Less [-]

PSYCH 290E Seminars: Perception 2 Units
Terms offered: Spring 2016, Fall 2009, Fall 2008
Seminars: Perception: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Seminars: Perception: Read Less [-]

PSYCH 290H Seminars: Developmental 2 Units
Terms offered: Fall 2017, Spring 2017, Spring 2016
Seminars: Developmental: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Seminars: Developmental: Read Less [-]

PSYCH 290I Seminars: Personality 2 Units
Terms offered: Spring 2017, Spring 2015, Fall 2014
Seminars: Personality: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Seminars: Personality: Read Less [-]

PSYCH 290J Seminars: Social 2 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
Seminars: Social: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Seminars: Social: Read Less [-]

PSYCH 290K Seminars: Clinical 2 Units
Terms offered: Fall 2015, Spring 2015, Fall 2014
Seminars: Clinical: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.

Seminars: Clinical: Read Less [-]
PSYCH 290P Seminars: Additional Seminars on Special Topics to Be Announced 2 Units
Terms offered: Spring 2013, Fall 2012, Spring 2011
Seminars: Additional Seminars on Special Topics to Be Announced:
Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.
Seminars: Additional Seminars on Special Topics to Be Announced:
Read Less [-]

PSYCH 290Q Seminars: Cognition 2 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
Seminars: Cognition: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.
Seminars: Cognition: Read Less [-]

PSYCH 290Z Seminars 1 - 3 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
Special section.
Seminars: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1-3 hours of seminar per week
Additional Details
Subject/Course Level: Psychology/Graduate
Grading: Letter grade.
Seminars: Read Less [-]

PSYCH 292 Introduction to the Profession of Psychology 2 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
This course provides both a broad review of the field of psychology and an introduction to the faculty of this department. Faculty from various program areas will present biographical information and discuss their particular research programs, as well as summarizing current developments in their areas. The course will also cover topics in professional development (e.g., scientific writing, convention presentations, journal review processes, professional and scientific ethics, and special issues facing women and minority psychologists). Required of all first-year students in the graduate program.
Introduction to the Profession of Psychology: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Psychology/Graduate
Formerly known as: 292A
Introduction to the Profession of Psychology: Read Less [-]

PSYCH 293 Second-Year Seminar on Professional Development 2 Units
This course will focus on various issues related to professional development. Topics may include planning a research program, preparing for qualifying exams, choosing a dissertation committee, identifying career options, presenting work at conferences and in journals, preparing grant proposals, preparing for job interviews, juggling professional and personal life, and recognizing obstacles in career development. The seminar participants will select actual topics at the beginning of the term, and all will be expected to participate in the discussions. All participants will present their research at a departmental poster session at the end of the term. Required of all second-year students.
Second-Year Seminar on Professional Development: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Psychology/Graduate
Formerly known as: 293A-293B
Second-Year Seminar on Professional Development: Read Less [-]
PSYCH 294 Current Issues Colloquium Series
1 Unit
Terms offered: Spring 2018, Fall 2017, Spring 2017
Current issues in specified areas of psychology presented weekly by
announced speakers.
Current Issues Colloquium Series: Read More [+]

Rules & Requirements
 Repeat rules: Course may be repeated for credit with instructor consent.
 Course may be repeated for credit when topic changes.

Hours & Format
 Fall and/or spring: 15 weeks - 1-2 hours of colloquium per week

Additional Details
 Subject/Course Level: Psychology/Graduate
 Grading: Offered for satisfactory/unsatisfactory grade only.

Current Issues Colloquium Series: Read Less [-]

PSYCH 298 Directed Study 1 - 12 Units
Terms offered: Spring 2018, Fall 2017, Summer 2017 8 Week Session
Special study under the direction of a member of the staff.
Directed Study: Read More [+]

Rules & Requirements
 Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
 Fall and/or spring: 15 weeks - 0 hours of independent study per week
 Summer:
6 weeks - 1-5 hours of independent study per week
8 weeks - 1-4 hours of independent study per week

Additional Details
 Subject/Course Level: Psychology/Graduate
 Grading: Letter grade.

Directed Study: Read Less [-]

PSYCH 299 Research 1 - 12 Units
Terms offered: Fall 2017, Summer 2017 8 Week Session, Spring 2016
Individual research.
Research: Read More [+]

Rules & Requirements
 Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
 Fall and/or spring: 15 weeks - 0 hours of independent study per week
 Summer:
6 weeks - 1-5 hours of independent study per week
8 weeks - 1-4 hours of independent study per week

Additional Details
 Subject/Course Level: Psychology/Graduate
 Grading: Letter grade.

Research: Read Less [-]

PSYCH 301 Supervision for Teaching Psychology 2
2 2 Units
Terms offered: Spring 2016, Fall 2015, Spring 2015
Supervised teaching experience for graduate student instructors of Psych 2.
Supervision for Teaching Psychology 2: Read More [+]

Rules & Requirements
 Prerequisites: 300, advancement to candidacy, and consent of instructor
 Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
 Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
 Subject/Course Level: Psychology/Professional course for teachers or
prospective teachers
 Grading: Offered for satisfactory/unsatisfactory grade only.

Supervision for Teaching Psychology 2: Read Less [-]
PSYCH 375 Teaching Psychology 2 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
This course will provide training in a variety of teaching techniques, will review relevant pedagogical issues, and will assist graduate students in mastering their initial teaching experiences.

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Psychology/Professional course for teachers or prospective teachers
Grading: Offered for satisfactory/unsatisfactory grade only.
Formerly known as: Psychology 300

Teaching Psychology: Read Less [-]

PSYCH 401A Clinical Internship (Off Campus) 1 - 12 Units
Terms offered: Fall 2010, Fall 2009, Fall 2008
Individual programs of practice and supervision in approved off-campus agencies.

Rules & Requirements
Prerequisites: Advancement to candidacy; limited to clinical psychology graduate students or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of internship per week
Summer:
6 weeks - 1-12 hours of internship per week
8 weeks - 1-12 hours of internship per week

Additional Details
Subject/Course Level: Psychology/Other professional
Grading: The grading option will be decided by the instructor when the class is offered.

Clinical Internship (Off Campus): Read Less [-]

PSYCH 401B Clinical Internship (Off Campus) 1 - 12 Units
Terms offered: Spring 2014, Spring 2013, Spring 2012
Individual programs of practice and supervision in approved off-campus agencies.

Rules & Requirements
Prerequisites: Advancement to candidacy; limited to clinical psychology graduate students or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of internship per week
Summer:
6 weeks - 1-12 hours of internship per week
8 weeks - 1-12 hours of internship per week

Additional Details
Subject/Course Level: Psychology/Other professional
Grading: The grading option will be decided by the instructor when the class is offered.

Clinical Internship (Off Campus): Read Less [-]

PSYCH 602 Individual Study for Doctoral Students 1 - 8 Units
Terms offered: Spring 2014, Spring 2013, Spring 2012
Individual study in consultation with the major field adviser, intended to provide opportunity for qualified students to prepare themselves for the various examinations required of candidates for the Ph.D. May not be used for unit or residence requirements for the doctoral degree.

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Summer:
6 weeks - 1-5 hours of independent study per week
8 weeks - 1-4 hours of independent study per week

Additional Details
Subject/Course Level: Psychology/Graduate examination preparation
Grading: Offered for satisfactory/unsatisfactory grade only.

Individual Study for Doctoral Students: Read Less [-]