Neuroscience

The Neuroscience Graduate Program at UC Berkeley is a unique, diverse PhD training program that offers intensive, integrated training in multiple areas of neuroscience research.

The program involves more than 55 faculty from different campus departments, with expertise ranging from molecular and cellular neuroscience to developmental neuroscience, systems and computational neuroscience, and human cognitive neuroscience.

We provide a highly interdisciplinary, intellectually dynamic training environment of coursework, research training, and mentoring, within a strong research program that produces fundamental advances in knowledge and cutting-edge techniques.

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 for an additional doctorate or professional master’s degree program if there is no duplication of training involved.

Applicants may apply only to 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 of a non-academic nature.
   • courses that will be completed after the application is submitted,
   • courses conducted in a language other than English,
   • courses in English as a Second Language
   • 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

Applicants to the program should have a bachelor’s degree in science from a four-year college and at least one year of laboratory experience. Applicants are required to submit Graduate Record Examination (GRE) General Test scores, and are strongly encouraged to submit one GRE Subject Test score (in biochemistry and cell biology, chemistry, psychology, biology, computer science, or physics).
Normative Time Requirements
Normative Time to Advancement

Step I: Lab Rotations and Presentations
During the first year of graduate study, each neuroscience graduate student spends three 10-week periods performing research projects in different faculty laboratories. The goal is to expose students to different techniques and approaches in neuroscience and to provide training in experimental design, critical analysis of data, and presentation of research findings. Performance in rotations is evaluated and graded. Rotations also allow students to identify the laboratory in which their thesis research will be performed. During the spring semester, students formally present results from the laboratory rotations in a dedicated course, NEUROSC 290 (Neuroscience First Year Research), designed to train students in clear, effective presentation of scientific findings.

Step II: Qualifying Exam
Students complete an oral qualifying exam during the spring semester of Year 2. This exam is structured around two written proposals—one in the student’s proposed area of thesis research, and the other in an area of neuroscience outside the thesis topic. During the exam, a faculty committee tests the student’s knowledge of these areas and general neuroscience. Students must demonstrate the ability to recognize important research problems, propose relevant experimental approaches, and display comprehensive knowledge of relevant subjects. Students must pass the qualifying examination before advancing to doctoral candidacy.

Normative Time in Candidacy

Step III: Dissertation
Students undertake research for the PhD dissertation under a four-person committee in charge of their research and dissertation. Students do original research using a wide variety of cutting-edge neuroscience methods. The students then write the dissertation based on the results of this research. On completion of the research and approval of the dissertation by the committee, the students are awarded the doctorate.

Total Normative Time
Total normative time is 5.5 years.

Time to Advancement

Curriculum
One Graduate Course in Each of the Following Three Foundational Areas
Students can either take one graduate level course from each category, or three graduate level courses chosen form two areas, plus a selected advance undergraduate course from a third area. They are taken in years 1-2.

1. Cellular, Molecular and Developmental Neuroscience
Choose one:
- MCELLBI 231 Advanced Developmental and Stem Cell Biology 4
- MCELLBI 236 Advanced Mammalian Physiology 5
- MCELLBI 240 Advanced Genetic Analysis 4
- NEUROSC C261 Cellular and Developmental Neurobiology 3

2. Systems and Computational Neuroscience
Choose one:
- PSYCH 210B Proseminar: Cognition, Brain, and Behavior 3
- VIS SCI 265 Neural Computation 3
- NEUROSC C262 Circuit and Systems Neurobiology 3

3. Cognition, Brain and Behavior
Choose one:
- PSYCH 117 Human Neuropsychology 3
- PSYCH C127 Cognitive Neuroscience 3
- PSYCH 210A Proseminar: Cognition, Brain, and Behavior 3
- PSYCH 210D Proseminar: Cognition, Brain, and Behavior 3
- PSYCH 214 Functional MRI Methods 3
- PSYCH 240A Proseminar: Biological, Cognitive, and Language Development 3
- PB HLTH C217D Biological and Public Health Aspects of Alzheimer’s Disease 3
- VIS SCI 262 Visual Cognitive Neuroscience 3

Two Graduate Elective Seminars or Courses
Students must take two additional elective courses. These can be either graduate-level seminars or graduate-level lecture courses, and can be 1 unit or more. These are typically taken years three-four. You may also select a foundation course as an elective. Consult your thesis adviser and thesis committee to select the most appropriate course for you.

Neuro-Related Seminar Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EL ENG 290A</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td></td>
<td>Advanced Topics in Computer-Aided Design</td>
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<tr>
<td>EL ENG 290B</td>
<td>Advanced Topics in Electrical Engineering:</td>
<td>1-3</td>
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<td></td>
<td>Advanced Topics in Solid State Devices</td>
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<td>EL ENG 290C</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td></td>
<td>Advanced Topics in Circuit Design</td>
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<tr>
<td>EL ENG 290D</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td>Advanced Topics in Semiconductor Technology</td>
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<tr>
<td>EL ENG 290F</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td>Advanced Topics in Photonics</td>
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<td>EL ENG 290N</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td>Advanced Topics in System Theory</td>
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<td>EL ENG 290O</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td>Advanced Topics in Control</td>
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<tr>
<td>EL ENG 290P</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td></td>
<td>Advanced Topics in Bioelectronics</td>
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<tr>
<td>EL ENG 290Q</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td></td>
<td>Advanced Topics in Communication Networks</td>
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<td>EL ENG 290S</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td>Advanced Topics in Communications and Information Theory</td>
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<td>EL ENG 290T</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td>Advanced Topics in Signal Processing</td>
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<td>EL ENG 290Y</td>
<td>Advanced Topics in Electrical Engineering:</td>
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<td></td>
<td>Organic Materials in Electronics</td>
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<td>LINGUIS 290A</td>
<td>Topics in Linguistic Theory: Syntax</td>
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<td>LINGUIS 290B</td>
<td>Topics in Linguistic Theory: Semantics</td>
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<td>LINGUIS 290D</td>
<td>Topics in Linguistic Theory: Pragmatics</td>
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<tr>
<td>LINGUIS 290E</td>
<td>Topics in Linguistic Theory: Phonology</td>
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<td>LINGUIS 290F</td>
<td>Topics in Linguistic Theory: Diachronic Linguistics</td>
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<td>LINGUIS 290H</td>
<td>Topics in Linguistic Theory: Linguistic Reconstruction</td>
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<td>LINGUIS 290L</td>
<td>Additional Seminar on Special Topics to Be Announced</td>
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<td>LINGUIS 290M</td>
<td>Topics in Linguistic Theory: Psycholinguistics</td>
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<td>LINGUIS 290R</td>
<td>Course Not Available</td>
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<td>MCELLBI 290</td>
<td>Graduate Seminar</td>
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<td>PSYCH 290B</td>
<td>Seminars: Biological</td>
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<td>PSYCH 290E</td>
<td>Seminars: Perception</td>
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<td>PSYCH 290H</td>
<td>Seminars: Development</td>
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<td>PSYCH 290I</td>
<td>Seminars: Personality</td>
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<td>PSYCH 290J</td>
<td>Seminars: Social</td>
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<tr>
<td>PSYCH 290K</td>
<td>Seminars: Clinical</td>
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<td>PSYCH 290P</td>
<td>Seminars: Additional Seminars on Special Topics to Be Announced</td>
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<td>PSYCH 290Q</td>
<td>Seminars: Cognition</td>
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<td>PSYCH 290Z</td>
<td>Seminars</td>
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<td>VIS SCI 298</td>
<td>Group Studies, Seminars, or Group Research</td>
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<td>PSYCH 290B</td>
<td>Methods for Research in Psychological Sciences</td>
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<td>PSYCH 290E</td>
<td>Data Analysis</td>
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<td>STAT 150</td>
<td>Stochastic Processes</td>
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<td>STAT 151A &amp; STAT 151B</td>
<td>Linear Modelling: Theory and Applications and Course Not Available</td>
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<td>STAT 153</td>
<td>Introduction to Time Series</td>
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<td>STAT 204</td>
<td>Probability for Applications</td>
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<td>STAT C241A</td>
<td>Statistical Learning Theory</td>
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<td>STAT C241B</td>
<td>Advanced Topics in Learning and Decision Making</td>
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<td>STAT 248</td>
<td>Analysis of Time Series</td>
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<td>MATH 118</td>
<td>Fourier Analysis, Wavelets, and Signal Processing</td>
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<td>MATH 220</td>
<td>Introduction to Probabilistic Methods in Mathematics and the Sciences</td>
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<td>COMPSCI C280</td>
<td>Computer Vision</td>
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<td>EL ENG 123</td>
<td>Digital Signal Processing</td>
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<td>EL ENG 126</td>
<td>Probability and Random Processes</td>
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<td>EL ENG 221A</td>
<td>Linear System Theory</td>
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<td>EL ENG 225A</td>
<td>Digital Signal Processing</td>
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<td>EL ENG 225B</td>
<td>Digital Image Processing</td>
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<td>EL ENG 226A</td>
<td>Random Processes in Systems</td>
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<td>EL ENG 229A</td>
<td>Information Theory and Coding</td>
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<td>BIO ENG C218</td>
<td>Stem Cells and Directed Organogenesis</td>
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<td>BIO ENG C219</td>
<td>Protein Engineering</td>
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<td>BIO ENG C231</td>
<td>Introduction to Computational Molecular and Cellular Biology</td>
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<td>BIO ENG 243</td>
<td>Computational Methods in Biology</td>
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<td>BIO ENG 263</td>
<td>Principles of Molecular and Cellular Biophotonics</td>
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<tr>
<td>BIO ENG C265</td>
<td>Principles of Magnetic Resonance Imaging</td>
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</table>

**VIS SCI 212B** Visual Neurophysiology and Development 2
**VIS SCI 212E** Color Vision and Visual Sensitivity 2
**VIS SCI 212F** Spatial and Binocular Vision, Eye Movements, and Motion Perception 2
**VIS SCI 212G** Molecular Genetics of Vertebrate Eye Development and Diseases 2

**Other Degree Requirements**

Pedagogy course

- **NEUROSC 290** Neuroscience First Year Research 2
- **NEUROSC 294** Neuroscience Graduate Student Presentation Seminar 1

Students must also complete a 1-semester course in Applied Statistics in Neuroscience, or an equivalent approved course in statistics or quantitative analysis methods.

**Time in Candidacy**

**Dissertation Presentation/Formal Exit Seminar**

There is no formal defense of the completed dissertation. Neuroscience students are required to publicly present a thesis seminar about their dissertation research in their final year.

**Required Professional Development Presentations**

During their fourth year of study, students are required to make a presentation on the progress of their thesis work while enrolling in **NEUROSC 294** (Neuroscience Graduate Student Presentation Seminar), a journal club, for a letter grade.

**Teaching**

Neuroscience students are required to serve as graduate student instructors (GSIs) for two semesters. Whenever possible, GSI assignments are determined with an eye toward student research interests. Teaching occurs during fall semester of the second year and spring semester of the third. Teaching affords students supervised experience in a variety of educational situations, including labs, discussion sections, and demonstrations. GSIs also participate in record-keeping, grading, advising, and student consultations.

GSIs are evaluated by both supervising faculty and the students they teach. These evaluations become a permanent part of the student file. Deserving GSIs are nominated for the Outstanding Graduate Student Instructor Award.
Neuroscience

**NEUROSC C217D Biological and Public Health Aspects of Alzheimer's Disease 3 Units**
Terms offered: Spring 2017, Spring 2015, Spring 2014, Spring 2013
This course will survey the field of Alzheimer's disease (AD) from a biological and public health perspective by reading original research papers in the fields of medicine, neuroscience, and epidemiology. The course will begin with a historical survey of the concept of AD, followed by a description of clinical and neuropathological features. Subsequent classes will cover the genetics and molecular biology of the disease, as well as biomarkers, epidemiology, risk factors, treatment, development of new diagnostic approaches, and ethical issues. The course will also serve as a model for the analysis of complex diseases with multiple genetic and environmental causes and late-onset neurodegenerative diseases. The course will also serve as a model for the analysis of complex diseases with multiple genetic and environmental causes and late-onset neurodegenerative disease. Biological and Public Health Aspects of Alzheimer's Disease: Read More [+]

**Rules & Requirements**

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

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Neuroscience/Graduate

**Grading:** Letter grade.

**Instructor:** Jagust

**Also listed as:** PB HLTH C217D

Biological and Public Health Aspects of Alzheimer's Disease: Read Less [-]

**NEUROSC C261 Cellular and Developmental Neurobiology 3 Units**
Terms offered: Fall 2017, Fall 2016, Spring 2016
This course covers the molecular/cellular basis of neuron excitability (membrane potentials, action potential generation and propagation, ion channels), synaptic transmission and plasticity, sensory receptor function, and developmental neurobiology. Cellular and Developmental Neurobiology: Read More [+]

**Rules & Requirements**

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

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Neuroscience/Graduate

**Grading:** Letter grade.

**Instructor:** Jagust

**Also listed as:** MCELLBI C261

Cellular and Developmental Neurobiology: Read Less [-]

**NEUROSC C262 Circuit and Systems Neurobiology 3 Units**
Terms offered: Spring 2018, Spring 2017, Fall 2015
Advanced coverage of current research problems in systems-level neuroscience, and experimental and computational techniques used for these studies. Circuit and Systems Neurobiology: Read More [+]

**Rules & Requirements**

**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:** Neuroscience/Graduate

**Grading:** Letter grade.

**Also listed as:** MCELLBI C262

Circuit and Systems Neurobiology: Read Less [-]

**NEUROSC C265 Neural Computation 3 Units**
Terms offered: Prior to 2007
This course provides an introduction to the theory of neural computation. The goal is to familiarize students with the major theoretical frameworks and models used in neuroscience and psychology, and to provide hands-on experience in using these models. Topics include neural network models, supervised and unsupervised learning rules, associative memory models, probabilistic/graphical models, and models of neural coding in the brain. Neural Computation: Read More [+]

**Rules & Requirements**

**Prerequisites:** Calculus, differential equations, basic probability and statistics, linear algebra, and familiarity with high level programming languages such as Matlab

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Neuroscience/Graduate

**Grading:** Letter grade.

**Instructor:** Olshausen

**Also listed as:** VIS SCI C265

Neural Computation: Read Less [-]
NEUROSC 290 Neuroscience First Year Research 2 Units
Terms offered: Spring 2017, Spring 2016, Spring 2015
Seminar on the presentation and evaluation of research results for first-year neuroscience graduate students. During the first weeks, faculty present their research (FERPS); later, students present individual research results and evaluate their own and each other’s work. Course enrollment limited to 15.

Prerequisites: Graduate standing in Neuroscience Graduate Group; concurrent enrollment in 291A-291B

Rules & Requirements

Grading: Letter grade.

Instructor: Ngai

NEUROSC 290A Neuroscience Research Design and Analysis 1 Unit
Terms offered: Fall 2017, Fall 2016
Professional core competency training for graduate students involved in neuroscience research at Berkeley. Includes survey of modern research methods, and professional skills including principles of experimental design and data reproducibility.

Prerequisites: Restricted to 1st year PhD students in Neuroscience-related PhD Programs (Neuroscience PhD Program, MCB PhD Program, Psychology PhD Program, Biophysics PhD Program), or permission of instructor

Credit Restrictions: <BR/>

Rules & Requirements

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructors: Feldman, Neuroscience Graduate Advisors, Guest faculty speakers

NEUROSC 290B Neuroscience Career Skills 1 Unit
Terms offered: Spring 2018, Spring 2017
Professional core competency training for graduate students involved in neuroscience research at Berkeley. Includes training in giving scientific presentations, scientific writing, and project management.

Prerequisites: Restricted to 1st year PhD students in Neuroscience-related PhD Programs (Neuroscience PhD Program, MCB PhD Program, Psychology PhD Program, Biophysics PhD Program), or permission of instructor

Hours & Format

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

Additional Details

Subject/Course Level: Neuroscience/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Instructors: Feldman, Neuroscience Graduate Advisors, Guest faculty speakers

NEUROSC 291A Neuroscience Introduction to Research 4 - 12 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
Closely supervised, intensive laboratory experimental research under the direction of an individual faculty member. For first-year neuroscience graduate students, this course will provide an introduction to experimental methods and research approaches in the different areas of neuroscience. Grade awarded on completion of sequence, which includes 3 ten-week laboratory rotations spread out over the fall and spring semesters.

Prerequisites: Graduate standing in Neuroscience Graduate Group; consent of instructor

Credit Restrictions: <BR/>

Hours & Format

Fall and/or spring: 15 weeks - 20-40 hours of laboratory per week

Additional Details

Subject/Course Level: Neuroscience/Graduate

Grading: Letter grade. This is part one of a year long series course. A provisional grade of IP (in progress) will be applied and later replaced with the final grade after completing part two of the series.

Instructor: Ngai
NEUROSC 291B Neuroscience Introduction to Research 4 - 12 Units
Closely supervised, intensive laboratory experimental research under the direction of an individual faculty member. For first-year neuroscience graduate students, this course will provide an introduction to experimental methods and research approaches in the different areas of neuroscience. Grade awarded on completion of sequence, which includes 3 ten-week laboratory rotations spread out over the fall and spring semesters.

Rules & Requirements
Prerequisites: Graduate standing in Neuroscience Graduate Group; consent of instructor

Additional Details
Subject/Course Level: Neuroscience/Graduate
Grading: Letter grade. This is part two of a year long series course. Upon completion, the final grade will be applied to both parts of the series.

Instructor: Ngai

NEUROSC 292 Neuroscience Graduate Research 3 - 12 Units
Terms offered: Summer 2009, Fall 2008, Spring 2008
For graduate students in neuroscience in their second or later years. During the summer, the course will count for 3-6 units. Individual research under faculty supervision. In this course each graduate student conducts basic thesis and dissertation research after successful completion of the first-year laboratory rotation, Neuroscience 291A-291B. Laboratory work provides the basis for students’ thesis research, preparation for the preliminary examination, and continued progress toward completion of Ph.D. dissertation.

Rules & Requirements
Prerequisites: Concurrent enrollment in 292; graduate standing in the neuroscience program; 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
Summer:
6 weeks - 5 hours of seminar per week
8 weeks - 3.5 hours of seminar per week
10 weeks - 3 hours of seminar per week

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

NEUROSC 293 Neuroscience Research Review 2 Units
Terms offered: Spring 2009, Fall 2008, Spring 2008
Two hours of seminar per week which complements the individual laboratory work under faculty supervision. Seminar will review current scientific literature and discuss original research performed by faculty, postdoctoral fellows, scientists, and graduate students in individual faculty laboratories.

Rules & Requirements
Prerequisites: Graduate standing in Neuroscience Graduate Group; advanced approval from instructor

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

Additional Details
Subject/Course Level: Neuroscience/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
NEUROSC 294 Neuroscience Graduate Student Presentation Seminar 1 Unit
Terms offered: Spring 2018, Fall 2017, Spring 2017
This course will encompass three important facets of graduate education in the neurosciences: 1) Development of research presentation skills: fourth and fifth year graduate students will present seminars based on their ongoing dissertation research. Preparation and critiques of presentations will focus on organization of conceptual issues, data presentation, and summarization. 2) Exposure to current topics in neuroscience: faculty speakers will present on current issues and topics relevant to scientific development in the neurosciences, such as technical methods, application of analytical and statistical techniques, and organization and preparation of competitive fellowship and other grant applications. 3) Seminar preparation: a crucial aspect of graduate education is the interaction of students with invited seminar speakers - who are often leaders in their fields. A selected number of class meetings will be devoted to the review of scientific articles published by upcoming seminar speakers and/or other related articles in the field.
Rules & Requirements
Prerequisites: Graduate student standing
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1 hour of seminar per week
Additional Details
Subject/Course Level: Neuroscience/Graduate
Grading: Letter grade.

NEUROSC 299 Seminars 1 - 3 Units
Terms offered: Spring 2018, Spring 2017, Fall 2016
Course that focuses on topical subjects in specific fields of neuroscience.
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: Neuroscience/Graduate
Grading: Letter grade.