Courses Offered – Fall 2017

Courses that satisfy Foundational Requirements for Neuroscience PhD Program

Link to online schedule of classes: http://schedule.berkeley.edu/


Category A – Cellular, Molecular & Developmental Neuroscience

NEUROSC C261: Cellular and Developmental Neurobiology
001 LEC, 3 Units
Class #: 22044
Instructor(s): Hillel Adesnik, Stephen G. Brohawn, John Ngai
Tu, Th: 12:30 pm - 1:59 pm
Cory 289

MCELLBI 236: Advanced Mammalian Physiology
001 LEC, 5 Units
Class #: 17583
Instructor(s): Diana M. Bautista, Rebecca Heald, Polina Lishko
M, W, F: 11:00 am - 11:59 am
Genetics & Plant Bio 100

Category B – Systems & Computational Neuroscience

Category C – Cognition, Brain and Behavior

PSYCH C127: Cognitive Neuroscience (Undergrad)
001 LEC, 3 Units
Class #: 19560
Instructor(s): Richard Ivry
M, W: 12:00 pm - 12:59 pm
Birge 50
PSYCH 210A : Proseminar: Cognition, Brain, and Behavior
001 LEC, 3 Units
Class #: 46853
Instructor(s): Linda Wilbrecht, Lance J. Kriegsfeld
F: 2:00 pm - 3:59 pm

*PSYCH 214: Functional MRI Methods
001 LEC, 3 Units
Class #: 22682
Instructor(s): Mark D'Esposito
M: 1:30 pm - 4:29 pm
* Because of its specific focus on methodology, this course is only appropriate for cognitive neuro students who will use fMRI in their thesis research; it is not appropriate for other students looking to fill the cognitive requirement.

Required Courses for all First Year Students:

NEUROSC 290A 001
001LEC, 1 Units
Class #: 22850
Instructor(s): Daniel E. Feldman
W: 4:00 pm - 5:59 pm

NEUROSC 291A : Neuroscience Introduction to Research (Rotations)
001 LAB, 4 to 12 Units
2017 Fall-1
Class #: 17885
Instructor(s): Daniel E. Feldman

All first and second year students must register for at least 1 semester per year of Brain Lunch. Sign up Satisfactory/Unsatisfactory. Year 4 students must present a Brain Lunch talk, and must sign up for a Letter Grade during the semester of their presentation.

NEUROSC 294 : Neuroscience Graduate Student Presentation Seminar
001 SEM
1 Units
Class #: 18326
Instructor(s): Dan Feldman
M: 12:00 pm - 12:59 pm
Tolman 5101

**Commonly Chosen Electives**

**Statistics**

PSYCH 102: Methods for Research in Psychological Sciences
001 LEC, 3 Units
Class #: 22509
Instructor(s): Frederic E Theunissen
M, W: 9:00 am - 9:59 am
Etcheverry 3106

STAT 150: Stochastic Processes
001 LEC, 3 Units
Class #: 21064
Instructor(s): Alan Hammond
M, W, F: 12:00 pm - 12:59 pm
Evans 60

STAT 151A : Linear Modelling: Theory and Applications
001 LEC, 4 Units
Class #: 21045
Tu, Th: 11:00 am - 12:29 pm
Valley Life Sciences 2060

STAT 153: Introduction to Time Series
001 LEC, 4 Units
Class #: 20976
Instructor(s): David R Brillinger
Tu, Th: 3:30 pm - 4:59 pm
Lewis 9

STAT 154 : Modern Statistical Prediction and Machine Learning
001 LEC, 4 Units
Class #: 20978
Instructor(s): Gaston Sanchez Trujillo
M, W, F: 1:00 pm - 1:59 pm  
Etcheverry 3108

Mathematics

MATH 118: Fourier Analysis, Wavelets, and Signal Processing  
001 LEC, 4 Units  
Class #: 45440  
Instructor(s): John A Strain  
Tu, Th: 3:30 pm - 4:59 pm  
Cory 241

Electrical Engineering and Computer Sciences

ELENG 120: Signals and Systems  
001 LEC, 4 Units  
Class #: 39094  
Instructor(s): Babak Ayazifar  
M, W: 4:00 pm - 5:59 pm  
Birge 50

EECS 126: Probability and Random Processes  
001 LEC, 4 Units  
Class #: 46117  
Instructor(s): Jean C Walrand, Abhay K Parekh  
Tu, Th: 12:30 pm - 1:59 pm  
Genetics & Plant Bio 100

ELENG 221A: Linear System Theory  
001 LEC, 4 Units  
Class #: 39139  
Instructor(s): Claire Jennifer Tomlin  
Tu, Th: 2:00 pm - 3:29 pm  
Cory 521

ELENG 225B: Digital Image Processing  
001 LEC, 3 Units  
Class #: 45012  
Instructor(s): Avideh Zakhor
Tu, Th: 9:30 am - 10:59 am
Stanley 179

ELENG 226A: Random Processes in Systems
001 LEC, 4 Units
Class #: 39133
Instructor(s): Venkatacha Anantharam
Tu, Th: 3:30 pm - 4:59 pm
Cory 293

ELENG 229A: Information Theory and Coding
001 LEC, 3 Units
Class #: 39122
Instructor(s): Thomas A. Courtade
Tu, Th: 12:30 pm - 1:59 pm
Cory 241

Bioengineering

BIOENG 231: Introduction to Computational Molecular and Cellular Biology
001 LEC, 4 Units
Class #: 24862
Instructor(s): Ian H. Holmes
M, W, F: 2:00 pm - 2:59 pm
Evans 60

BIOENG 263: Principles of Molecular and Cellular Biophotonics
001 LEC, 4 Units
Class #: 24823
Instructor(s): Gerard Marriott
Tu, Th: 5:00 pm - 6:29 pm
Hearst Mining 310

Vision Science

VISSCI 212B: Visual Neurophysiology and Development
001 LEC, 2 Units
Class #: 40711
Instructor(s): Michael A. Silver
M, W: 4:00 pm - 5:29 pm