### Neuroscience

Neuroscience, Program in  
Program Director: Neal Cohen  
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Subjects associated with this department include: Biophysics (BIOP), Molecular and Cellular Biology (MCB), and Neuroscience (NEUR).

**NEUR 314**  **Introduction to Neurobiology**  credit: 3 hours.  
Same as MCB 314. See MCB 314.

**NEUR 403**  **Memory and Amnesia**  credit: 3 OR 4 hours.  
Same as PSYC 403. See PSYC 403.

**NEUR 405**  **Cognitive Neuroscience**  credit: 3 OR 4 hours.  
Same as PSYC 404. See PSYC 404.

**NEUR 413**  **Psychopharmacology**  credit: 3 OR 4 hours.  
Same as PSYC 413. See PSYC 413.

**NEUR 414**  **Brain, Learning, and Memory**  credit: 3 OR 4 hours.  
Same as PSYC 414. See PSYC 414.

**NEUR 419**  **Brain, Behavior & Info Process**  credit: 3 hours.  
Same as BIOP 419 and MCB 419. See MCB 419.

**NEUR 421**  **Principles of Psychophysiology**  credit: 3 OR 4 hours.  
Same as PSYC 421. See PSYC 421.

**NEUR 432**  **Genes and Behavior**  credit: 3 hours.  
Same as ANTH, IB 432, and PSYC 432. See IB 432.

**NEUR 433**  **Evolutionary Neuroscience**  credit: 3 OR 4 hours.  
Same as PHIL 433 and PSYC 433. See PSYC 433.

**NEUR 450**  **Cognitive Psychophysiology**  credit: 3 OR 4 hours.  
Same as PSYC 450. See PSYC 450.
NEUR 451  Neurobio of Aging  credit: 0 TO 4 hours.
Same as PSYC 451 and KIN 458. See PSYC 451.

NEUR 453  Cog Neuroscience of Vision  credit: 3 OR 4 hours.
Same as PSYC 453. See PSYC 453.

NEUR 461  Cell & Molecular Neuroscience  credit: 3 hours.
Same as MCB 461. See MCB 461.

NEUR 462  Integrative Neuroscience  credit: 3 hours.
Same as MCB 462. See MCB 462.

NEUR 481  Developmental Neurobiology  credit: 3 hours.
Same as MCB 481. See MCB 481.

NEUR 500  Topics in Neuroscience  credit: 1 hours.
Critical reading and discussion of current papers from the neuroscience literature, and discussion of other relevant topics such as ethics and career and professional skills development. Grading based on attendance and participation. Approved for letter and S/U grading. May be repeated to a maximum of 2 hours. Prerequisite: Enrollment in Neuroscience Ph.D. program or consent of instructor.

NEUR 508  Intro to Systems Neuroscience  credit: 4 hours.
Same as MCB 508 and PSYC 508. See PSYC 508.

NEUR 510  Advances in Psychobiology  credit: 3 OR 4 hours.
Same as PSYC 510. See PSYC 510.

NEUR 511  Adv Physiological Psych  credit: 2 hours.
Same as PSYC 511. See PSYC 511.

NEUR 513  Survey of Neurobiology  credit: 1 hours.
Same as MCB 513. See MCB 513.

NEUR 520  Adv Topics in Neuroscience  credit: 1 hours.
Survey of current research in modern neural and behavioral biology. Each weekly seminar is presented by a faculty member or distinguished visiting neuroscientist. Abstracts and suggested readings are presented prior to each seminar. Approved for S/U grading only. May be repeated.

NEUR 590  Indiv Topics Neuroscience  credit: 1 TO 16 hours.
Individual topics of research supervised by Neuroscience faculty. Usually taken in one of the eight Neuroscience concentration areas: 1) neuroanatomy, 2) neurophysiology, 3) cognitive and behavioral neuroscience, 4) neurochemistry, neuropharmacology and neurotoxicology, 5) neuroendocrinology and neuroimmunology, 6) developmental genetic and molecular neuroscience, 7) clinical and
biomedical neuroscience, 8) computational neuroscience. Typically taken by students before they choose their thesis topic. Approved for S/U grading only. May be repeated in the same or subsequent terms. Prerequisite: Consent of instructor.

**NEUR 598  Proseminar in Psychology**  credit: 0 TO 4 hours.
Same as PSYC 598. See PSYC 598.

**NEUR 599  Thesis Research**  credit: 0 TO 16 hours.
Research on the thesis topic and preparation of the thesis. Approved for S/U grading only. May be repeated in the same or subsequent terms. Prerequisite: Consent of instructor.