NEUROSCIENCE (NEUROSCI)

NEUROSCI 303-0 Molecular Mechanisms of Neuropsychopharmacology (1 Unit)
Advanced seminar focusing on molecular mechanisms and aberrations of synaptic signal transduction and drugs that target them. Prerequisite: NEUROSCI 202-0 or NEUROSCI 311-0 or BIOL_SCI 302-0.

NEUROSCI 304-0 Developmental Neurobiology (1 Unit)
Embryology and cellular/molecular mechanisms of nervous system development. Topics include patterning of the early nervous system, neurogenesis, neuronal differentiation, wiring of neural circuits, activity and experience-dependent development and sex differences in early and late development. May not receive credit for both this course and the former BIOL_SCI 304-0. Prerequisites: BIOL_SCI 215-0; and NEUROSCI 202-0 or NEUROSCI 311-0 or BIOL_SCI 302-0.

NEUROSCI 311-0 Biophysical Analysis of Neurons for ISP (1 Unit)
Introduction to the organization and function of brain systems and their role in generating behavior. May not receive credit for both this course and the former NEUROSCI 306-0/BIOL_SCI 306-0. Prerequisites: NEUROSCI 202-0 or NEUROSCI 311-0 or BIOL_SCI 302-0; and must be a neuroscience major.

NEUROSCI 320-0 Animal Behavior (1 Unit)
Animal behavior from the neuroscience perspective. Neurobiological bases of foraging, communication, migration, predator-prey interactions, mating, and parental care. Prerequisites: NEUROSCI 202-0 and NEUROSCI 206-0; or NEUROSCI 311-0 and NEUROSCI 206-0; or BIOL_SCI 302-0.
Natural Sciences Distro Area

NEUROSCI 360-0 Neuroscience of Brain Disorders (1 Unit)
Survey of brain disorders such as neurodegenerative diseases, developmental disorders, narcolepsy, and migraine. Trace progress from the laboratory to the clinic, evaluate the state of knowledge and understand future directions. Strongly recommend review of basic genetics and molecular biology. Prerequisites: NEUROSCI 202-0 and NEUROSCI 206-0; or NEUROSCI 311-0 and NEUROSCI 206-0; or BIOL_SCI 302-0.
Natural Sciences Distro Area

NEUROSCI 377-0 Neurobiology of Sensation and Perception (1 Unit)
Analysis of the key concepts underlying the neurobiological mechanisms of vision, hearing, taste, smell, touch, and pain. Neural pathways leading to perception and processing of stimuli will also be discussed. Prerequisite: NEUROSCI 202-0 or NEUROSCI 311-0 or BIOL_SCI 302-0.
Natural Sciences Distro Area