Minor - Neuroscience

Description
The minor in neuroscience is an interdisciplinary course of study that will provide students an understanding of the neural underpinnings of behavior. Students will be encouraged to take basic and advanced courses in pure and applied neuroscience from several departments. Students from many different majors will find the scope of courses addressing brain and behavior enlightening and practical for their future careers. They will come to understand that neuroscience spans levels from the molecular to the psychological in both humans and other animals and learn how to apply theory to experimental or observational studies. There is no true dichotomy between the brain and the mind.

Course Requirements
The minor in neuroscience requires 18-22 hours, including Psy 319, Bisc 327, and four courses at the 300 level or above, of which at least one course must be a formal laboratory course or director-approved independent laboratory course (3 credit hours minimum) and at least one course must be at the 500 level. At least 6 hours, not including Psy 319 or Bisc 327, must be outside of the student's major. No more than 6 hours of independent study (e.g., Neu 491, 493, Bisc 491, Psy 420, or ES 490) can count towards the minor. Approved laboratory courses for the minor and other approved courses are listed below. Courses may not satisfy requirements for both the student's major and the neuroscience minor.

Approved Neuroscience Laboratory Courses

Bisc. 330. Introductory Physiology
Bisc. 427. Methods in Comparative Neuroscience
Bisc. 512. Animal Behavior
Bisc. 518. Microtechnique
EIE 314. Biomedical Measurement
Neu 491. Directed Research in Neuroscience
Neu 493. Neuroscience Capstone Research
Psy 390. Lab in Psy: Behavioral Neuroscience

Approved Neuroscience Courses

Bisc. 529. Endocrinology
Bisc. 533. Advanced Neuroscience
Bisc. 538. Hormones and Behavior
Bisc. 541. Cell Biology of Neurodegenerative Disorders
Bisc. 543. Functional Neuroanatomy
Bms 471. Targeting Neurodegenerative Diseases
CSD 505. Neurophysiology of Communication
CSD 526. Neurogenic Disorders of Language
EIE 313. Physiology for Biomedical Engineering
EIE 413. Biomedical Signal Processing
ES 344. Aging in the 21st Century
ES 338. Motor Control and Learning
ES 512. Foundations of Biomechanics
ES 514. Applied Electromyography
ES 515. Stress and the Brain
Medc 416. Intro to the Principles of Med Chem I
Medc 417. Intro to the Principles of Med Chem II
Medc 418. Neuroscience Principles of Drug Abuse
Phcl 586. Receptors and Channels
Phil 332. Personal Identity and the Self
Phil 342. Philosophy of the Mind
Psy 309. Learning and Behavior
Psy 322. Drugs and Behavior
Psy 326. Sensation and Perception
Psy 505. Conditioning and Learning
Psy 511. Neural Basis of Learning and Memory