

Minor - Neuroscience

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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 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
EI E 314. Biomedical Measurement
EI E 413. Biomedical Signal Processing
Neu 491. Directed Study in Neuroscience
Neu 493. Capstone Directed Study in Neuroscience
Psy 390. Lab in Psy: Behavioral Neuroscience

Approved Neuroscience Courses

Bisc 529. Endocrinology
Bisc 533. Advanced Neuroscience
Bisc 541. Cell Biology of Neurodegenerative Disorders
Bisc 543. Functional Neuroanatomy
CSD 505. Neurophysiology of Communication
CSD 526. Neurogenic Disorders of Language
EI E 313. Physiology for Biomedical Engineering
ES 512. Foundations of Biomechanics
ES 514. Applied Electromyography
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
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

