

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, not including Psy 319 or Bisc 327, must be outside of the student's major. A maximum of 6 credit hours of independent study can count toward the minor, but to apply more than 3 hours of independent study to the minor, a total of 9 credit hours of independent study must be taken. 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
BME 314. Biomedical Measurement
ES 514. Applied Electromyography
Neu 491. Directed Research in Neuroscience
Neu 493. Neuroscience Capstone Research
Neu 579. Advanced Topics of Neuroscience
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 455. Neuroanat & Neurophy of Speech & Hear
CSD 505. Neurophysiology of Communication
CSD 526. Neurogenic Disorders of Language
BME 313. Physiology for Biomedical Engineering
BME 413. Biomedical Signal Processing
ES 344. Aging in the 21st Century
ES 338. Motor Control and Learning
ES 512. Foundations of Biomechanics
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
Psy 320. Cognitive Psychology
Psy 322. Drugs and Behavior



Approved Neuroscience Courses

Psy 326. Sensation and Perception

Psy 505. Conditioning and Learning

Psy 511. Neural Basis of Learning and Memory

