NEUROSCIENCE MINOR

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 PSYC 3140 Brain and Behavior, BISC 3270 Introductory Neuroscience, and four courses at the 3000 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 5000 level. At least 6 hours, not including PSYC 3140 Brain and Behavior or BISC 3270 Introductory Neuroscience, 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

Code	Title	Hours
BISC 3300	Principles of Physiology	4
BISC 4270	Methods in Comparative Neuroscience	4
BISC 5012	Animal Behavior	4
BISC 5018	Microtechnique	4
BMED 3140	Biomedical Measurement	1
EXSC 5140	Applied Electrophysiology	3
NEUR 4910	Directed Research in Neuroscience I	1-3
NEUR 4996A	Neuroscience Capstone Directed Research	1-3
NEUR 5290	Advanced Topics in Neuroscience	1-4
PSYC 3748	Lab in Psy: Behavioral Neuroscience	3

Approved Neuroscience Courses

Code	Title	Hours
BISC 5029	Endocrinology	3
BISC 5033	Advanced Neuroscience	3
BISC 5038	Hormones and Behavior	3
BISC 5041	Cell Biol. of Neurodegenerative Disease	3
BISC 5043	Functional Neuroanatomy	3
BMSC 4710	Targeting Neurodegenerative Diseases	2
CSCD 4550	Neuroanat & Neurophys of Speech & Hearin	3
CSCD 5050	Neurophysiology and Genetics of Communic	3
CSCD 5260	Aphasia and Adult Language Disorders	3
BMED 3130	Physiology for Biomedical Engineering	3
BMED 4130	Biomedical Signal Processing	3
EXSC 3440	Aging in the 21st Century	3
EXSC 3380	Neuroscience of Exercise	3
EXSC 5150	Stress and the Brain	3
MEDC 4161	Intro to the Principles of Med Chem I	3
MEDC 4162	Intro to the Principles of Med Chem II	3
MEDC 4180	Neuroscience Principles of Drug Abuse	1
PHCL 5360	Receptors and Channels	3
PHIL 3050	Personal Identity and the Self	3
PHIL 3090	Philosophy of Mind	3
PSYC 3120	Learning	3
PSYC 3150	Cognitive Psychology	3
PSYC 3241	Drugs and Behavior	3
PSYC 3252	Sensation and Perception	3
PSYC 5222	Conditioning and Learning	3
PSYC 5241	The Neural Basis of Learning & Memory	3