NEUROSCIENCE IN THE COLLEGE OF ARTS AND SCIENCES

http://www.uvm.edu/~nsmajor/

The neuroscience major at UVM was designed as a collaborative effort of faculty in Biology and Psychology in the College of Arts and Sciences, and Communication Sciences in College of Nursing and Health Sciences, and will be joining ranks with a strong neuroscience graduate program and an active, energetic neuroscience research community within the university.

CAS NEUROSCIENCE MAJOR

Neuroscience is the study of the nervous system and how it regulates behavior. Often described as one of the “last frontiers”, neuroscience is an exciting and challenging interdisciplinary field in which scientists share an interest in studying the anatomy, physiology, and function of the nervous system. Psychology and Biology have been the traditional disciplines that share this interest, but fields such as Communication Sciences, Physics, Computer Science and other diverse fields are also intensely interested in neuroscience. The interdisciplinary nature of neuroscience requires an understanding of a broad range of methods of inquiry, ranging from laboratory methods associated with basic “bench” sciences such as cell and molecular biology to clinical methods associated with the study of medical disorders or disease states.

The Neuroscience major at UVM is a cooperative effort by faculty in the Departments of Biology, Psychology, Communication Sciences, Anatomy and Neurobiology, and a number of other neuroscientists at UVM. The challenging curriculum of the major at UVM is driven by the nature of the field of neuroscience and by the unique opportunities provided by course offerings and by faculty expertise. It features a strong life science foundation, research methods and experiences, and a strong core of neuroscience courses. These include courses in Communication Sciences which are unique to UVM and give our students more knowledge about and appreciation for the more clinically oriented areas of Neuroscience. The curriculum also gives students the freedom to select advanced courses that will prepare them for a wide variety of post-graduation career options, including (but certainly not limited to) graduate study, medical school and other health-care career options, laboratory technician positions, and science writing.

MAJORS

NEUROSCIENCE MAJOR

Neuroscience B.S.

GRADUATE

Neuroscience M.S.

Neuroscience Ph.D.

See the online Graduate Catalogue for more information.

Courses

NSCI 095. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

NSCI 096. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

NSCI 097. Readings & Research. 1-6 Credits.

NSCI 098. Readings & Research. 1-6 Credits.

NSCI 110. Exploring Neuroscience. 0 or 4 Credits.
Neuroscience survey, including cellular and molecular functioning of neurons, anatomical and functional organization of the nervous system, and diseases of the nervous system. With lab. Prerequisites: PSYC 001, BCOR 011, BCOR 012.

NSCI 195. Intermediate Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

NSCI 196. Intermediate Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

NSCI 197. Intrmd Readings & Research. 1-6 Credits.

NSCI 198. Intrmd Readings & Research. 1-6 Credits.

NSCI 225. Human Neuroanatomy. 0-3 Credits.
Functional anatomy of the human nervous system and its cells. Focus on both peripheral and central nervous system. Lectures and laboratory (gross and microscopic anatomy). Prerequisite: Instructor permission.

NSCI 270. Diseases of the Nervous System. 3 Credits.
Senior level, seminar-style capstone course in which students bring together information learned in other courses for an in-depth study of disease states of the nervous system. Pre/co-requisites: NSCI 110 and Senior standing.

NSCI 295. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

NSCI 296. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

NSCI 297. Advanced Readings & Research. 1-6 Credits.

NSCI 298. Advanced Readings & Research. 1-6 Credits.