NEUROSCIENCE (NSCI)

Courses

NSCI 090. Internship. 1-3 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

NSCI 092. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

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 111. Exploring Neuroscience. 3 Credits.
In-depth survey of neuroscience topics, including neuron function, the anatomical and functional organization of the nervous system, and diseases of the nervous system. Prerequisites: PSYS 001; CHEM 023 or CHEM 031; and one of the following pairs of courses: BIOL 001 and BIOL 002, BCOR 011 and BCOR 012, or ANPS 019 and ANPS 020.

NSCI 112. Exploring Neurosci Laboratory. 1 Credit.
Laboratory course in neuroscience designed to provide hands-on experience with methods of inquiry in neuroscience. Goals of this course include the development of problem-solving skills, data analysis, the scientific method, and science communication. Neuroscience majors only. Prerequisites: PSYS 001; CHEM 023 or CHEM 031; and one of the following pairs of courses: BIOL 001 and BIOL 002, BCOR 011 and BCOR 012, or ANPS 019 and ANPS 020.

NSCI 190. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

NSCI 192. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory level course in the discipline, for which credit is awarded. Offered at department discretion.

NSCI 193. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

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. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

NSCI 198. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

NSCI 222. Cellular Neurophysiology. 3 Credits.
Fundamentals of cellular neurophysiology through lecture, independent student reading and faculty-led group discussions of journal articles. Prerequisites: NSCI 110 or, NSCI 111 and NSCI 112, or Instructor Permission.

NSCI 225. Human Neuroanatomy. 0 or 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 230. Comparative Neurobiology. 3 Credits.
Examination of the cellular mechanisms that underlie selective motor and sensory abilities, and unique behaviors that have evolved in various species. Discussion and student presentations. Prerequisite: ASCI 141 or BIOL 106 or NSCI 111 or PSYS 115 or Instructor permission.

NSCI 255. Neuroregeneration. 3 Credits.
An analysis of the cellular and molecular processes involved in injury, responses to damage, and differences in the capacity of specific neural tissues to regenerate. Prerequisite: NSCI 111.

NSCI 261. Neurobiology. 3 Credits.
Focus on molecular and cellular aspects of the nervous system. Electrical signaling, synaptic transmission, signal transduction, neural development, plasticity, and diseases. Prerequisites: BIOL 103 or ANPS 019 & ANPS 020.

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 280. Glia: Not Just Neuron Glue!. 3 Credits.
Interdisciplinary course in which students engage in a focused, in-depth exploration of how glial cells contribute to neurological and psychiatric disorders. Prerequisites: NSCI 111; Course director approval. Pre/Co-requisites: NSCI 111; Course Director permission.

NSCI 290. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.
NSCI 292. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory level course in the discipline, for which credit is awarded. Offered at department discretion.

NSCI 293. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

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. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team specific student, which occurs outside the traditional, for which credit is awarded. Offered at department discretion.

NSCI 298. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.