Integrative Neuroscience (NEUROSCI)

NEUROSCI 1000: Career Foundations in Neuroscience
This course introduces students to career paths and opportunities related to neuroscience degree, overview of ethics, and guest lectures from neuroscientists in academic and industry. Graded on A-F basis only.

Credit Hour: 1

NEUROSCI 1010: Neuroscience Foundations
This course introduces the entire field of neuroscience, from molecules to behavior. Graded on A-F basis only.

Credit Hours: 3

NEUROSCI 3010: Behavioral Neuroscience
This course covers the relationship between the nervous system and behavior, including the role of evolution, genetics, and environment. The majority of course material will stem from animal research studies, with minimal coverage of human/clinical research. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: NEUROSCI 1010 or PSYCH 2210

NEUROSCI 3020: Cognitive Neuroscience
This course will cover the neural basis of human information processing in memory, attention, perception, imagery, movement, and language. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: NEUROSCI 1010 or PSYCH 2210

NEUROSCI 3030: Cellular Molecular Neuroscience
This course will focus on the development of the organization and function of the nervous system at the cellular and molecular level. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: NEUROSCI 1010 or BIO_SCI 2300

NEUROSCI 3040: Structure and Function of the Nervous System
This course will cover the neuroanatomical organization of the nervous system, including brain, spinal cord, circulatory blood supply, cranial nerves, peripheral nervous system. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: NEUROSCI 1010 or BIO_SC 2300

NEUROSCI 7990: Non-Thesis Research in Neuroscience
The course is intended primarily for post-baccalaureate students who have not entered a formal graduate program but who are performing neuroscience research. Graded on A-F basis only.

Credit Hour: 1-3
Prerequisites: instructor's consent required

NEUROSCI 8020: Advances in Neuroscience and Neuropathology
In depth review of recent advances in basic neuroscience research as well as pathological conditions affecting nervous systems at the cellular and systems level, and the methods and techniques used to study the nervous system. Graded on A-F basis only.

Credit Hour: 1-3

NEUROSCI 8187: Neuroscience Journal Club
In depth readings and presentations/discussions of neuroscience journal articles including recent advances in basic neuroscience research, pathological conditions affecting nervous systems, and neuroscience techniques. Graded on S/U basis only. May be repeated for credit.

Credit Hour: 1

NEUROSCI 8440: Integrative Neuroscience 1
(same as BIO_SC 8440). Organization, development and function of the nervous system focusing on cellular and molecular processes. Graded on A-F basis only.

Credit Hours: 3

NEUROSCI 8442: Integrative Neuroscience II
(same as BIO_SC 8442). Organization and function of the nervous system at the systems level to examine processes of behavior and cognition. Graded on A-F basis only.

Credit Hours: 3

NEUROSCI 9090: Thesis Research in Neuroscience
The course is intended primarily for graduate students who are working with mentors in departments that do not offer courses (e.g. Radiology). Graded on S/U basis only.

Credit Hour: 1-9
Prerequisites: Instructor's consent required