NEUROSCIENCE (NEUR)

NEUR 2980 - Independent Study
Credit(s): 1 or 3 Credits (Repeatable for credit)

NEUR 3400 - Introduction to Neuroscience 1: Cellular, Molecular and Systemic
Credit(s): 3 Credits
This course teaches the fundamental anatomy and physiology of the nervous system. Clinical cases and neuroscience technologies will be discussed. The course covers cellular, molecular and organ-systemic aspects of the nervous system and relevant neuronal disorders. Cross-listed with BIOL 3400.
Prerequisite(s): BIOL 3040*
* Concurrent enrollment allowed.
Restrictions:
Enrollment is limited to students with a major in Neuroscience.

NEUR 3400 - Introduction to Neuroscience 1: Cellular, Molecular and Systemic
Credit(s): 3 Credits
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Prerequisite(s): BIOL 3040*
* Concurrent enrollment allowed.
Restrictions:
Enrollment is limited to students with a major in Neuroscience.

NEUR 3500 - Introduction to Neuroscience 2: Cognitive and Behavioral
Credit(s): 3 Credits
This course introduces fundamentals of the neural bases of cognition and behavior. Areas of study include: methods of Cognitive Neuroscience, sensation and perception, movement, attention, learning and memory, and social and emotional behavior. Cross-listed with PSY 3150.
Prerequisite(s): PSY 1010; NEUR 3400
Restrictions:
Enrollment is limited to students with a major in Neuroscience.

NEUR 3550 - Neuroscience Laboratory
Credit(s): 1 Credit
This course introduces to students basic neuroanatomy, as well as cellular and molecular neuroscience through hands-on laboratory exercises using a variety of techniques such as electrophysiology, computational neuroscience, immunohistochemistry, pharmacology, and cell culture. Students will design and conduct their own group projects. Cross-listed with BIOL 3550.
Prerequisite(s): (NEUR 3400 or BIOL 3400)
Restrictions:
Enrollment is limited to students with a major in Neuroscience.

NEUR 4865 - Capstone Neurophysiology Laboratory
Credit(s): 1 Credit
This is a one credit neurophysiology lab course that is designed to provide authentic hands-on experience for undergraduate students to conduct electrophysiology experiments and complete a capstone project toward the neuroscience major requirement. Specifically, student will learn electrophysiological techniques and carry out experiments on model cells and live nervous tissues to test research hypothesis and conduct data analysis as well as present research findings. Students will work in a group of 3-4 students and present and submit a research poster as a group work.
Attributes: Cellular/Molecular Lab, Neuroscience - Capstone

NEUR 4869 - Critical Thinking about Neuroscience
Credit(s): 3 Credits
This course is designed to allow students to integrate and apply their knowledge of neuroscience to understanding the brain bases of critical thinking. Working in teams, students will review the literature on the neuroscience of critical thinking to propose critically informed and empirically grounded recommendations addressing biases in critical thinking. May be used to satisfy capstone requirement. Majors only, permission of instructor required. 3 Credit hours.
Attributes: Neuroscience - Capstone

NEUR 4900 - Neuroscience Seminar
Credit(s): 1 Credit
The Neuroscience Seminar focuses on synthesis and integration of concepts across the interdisciplinary field of neuroscience, drawing on a wide range of scientific disciplines to understand how the brain functions. The course aims to foster intellectual engagement, critical thinking, and communication skills to develop advanced-level understanding of neuroscience topics. (Offered in Fall and Spring)
Prerequisite(s): NEUR 3500; Minimum Earned Credits of 90
Restrictions:
Enrollment is limited to students with a major in Neuroscience.

NEUR 4910 - Internship
Credit(s): 1-6 Credits (Repeatable for credit)

NEUR 4930 - Special Topics
Credit(s): 1-3 Credits (Repeatable for credit)
Restrictions:
Enrollment limited to students with a classification of Senior.
Enrollment is limited to students with a major in Neuroscience.