

# NEUROSCIENCE (NEUR)

## NEUR 10100 SEMINAR IN NEUROSCIENCE 1 Credit Hour

Course provides an overview of the neuroscience field, including areas of neuroscience research, foundational principles in neuroscience, current questions and techniques, career possibilities and examples of research being conducted by neuroscience faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## NEUR 30100 NEUROSCIENCE I 3 Credit Hours

(Crosslisted with BSCI 30100) Course covers basic principles in neuroscience, from the cellular to systems levels. Provides students a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems and motor pathways.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## NEUR 30200 NEUROSCIENCE II 3 Credit Hours

(Cross-listed with BSCI 30200) Course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. Course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control and higher order cognitive functioning.

**Prerequisite:** NEUR 30100 or BSCI 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## NEUR 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1

**Credit Hour**

(Cross-listed with BSCI 30300) Accompanying laboratory for NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception. .

**Prerequisite:** NEUR 30100 or BSCI 30100 with minimum C grade.

**Pre/corequisite:** NEUR 30200 or BSCI 30200.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

## NEUR 40192 INTERNSHIP IN NEUROSCIENCE (ELR) 3-12 Credit Hours

Work experience and training in neuroscience under the supervision of appropriate personnel in a government agency, nonprofit organization or business.

**Prerequisite:** NEUR 30200; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-36 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## NEUR 40195 SPECIAL TOPICS IN NEUROSCIENCE 1-3 Credit Hours

Topics in neuroscience vary per course offering.

**Prerequisite:** NEUR 30200.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter

## NEUR 40196 INDIVIDUAL INVESTIGATION IN NEUROSCIENCE 1-3 Credit Hours

Research study under the guidance of a neuroscience faculty member.

**Prerequisite:** NEUR 30200

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Standard Letter