

Neuroscience (Interdisciplinary Minor)

Program Coordinators: Dr. Marian Langer, Dr. Steven Gilmour, Dr. Rose Clark, Dr. Stephen LoRusso

The Neuroscience minor is an interdisciplinary program of study, the aim of which is to examine the relationship between the brain and behavior from a variety of perspectives. Those perspectives include the obvious link to psychology, as well as the biological, chemical, and philosophical perspectives. The aim of the minor is to provide information that will allow students to see the connection between their particular majors and behavior. Additionally, the interactions that will occur between students and faculty of different disciplines will facilitate the integration of knowledge necessary to a broader foundation in neuroscience.

The neuroscience minor as a true interdisciplinary program is not housed in any particular department. Direction of the program is by committee with representatives from four departments: Biology - Dr. Marian Langer; Psychology - Dr. Steven Gilmour; Chemistry - Dr. Rose Clark; and Physical Therapy - Dr. Stephen LoRusso. The responsibility of the faculty directing the program is to oversee the program and to help students develop a course of study in neuroscience related to their majors.

The minor in neuroscience enables students to make explicit the idea that neuroscience is truly an interdisciplinary science with foundations in psychology, biology, and chemistry; it also enables students to enhance the career options of various majors by broadening their general educational experience. This minor is well-suited to students who are contemplating professional or research careers.

INTERDISCIPLINARY MINOR IN NEUROSCIENCE REQUIREMENTS

Neuroscience 279 and 450; nine additional credits from the following, beyond the requirements in the student's major: Psychology 205, 302, 303, 305, 314, Chemistry 103/104 or higher, Biology 111 or 205/206 or equivalent, Biology 301, 401, 405, 406.

Prerequisite for enrollment in the Neuroscience program is successful completion of one of the following courses: Psychology 101; Biology 111; Chemistry 101 or 103.

NEUROSCIENCE — COURSE DESCRIPTIONS

NEUR 279. Introduction to Neuroscience (3 credits)

This course exposes students to the history, language, scientific questions, fundamental principles, and methodology of neuroscience, and cultivates a clear understanding of the integrative nature of science. *Spring.*

NEUR 450. Interdisciplinary Senior Seminar in Neuroscience (1 credit)

This course introduces students to the primary literature of neuroscience; understanding of research design and analysis at the undergraduate level, and presentation of laboratory-based and library-based research results. Competency in basic laboratory techniques required. *Spring.*