

# Neuroscience

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## FACULTY

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## PROGRAM DESCRIPTION

The scientific community has been and continues to be fascinated by the prospect of unlocking the intricacies of the brain. Explorations in neuroscience often lead to questions about a human's personality, emotions, senses, diseases, or even the ability to develop artificial intelligence. There are currently many more questions than answers in this area. Neuroscience is an interdisciplinary field that has its foundation within psychology and biology, but incorporates concepts across many disciplines such as art, music, philosophy, chemistry, physics, and math to explore how our most complex organ, the brain, works.

The Neuroscience program will provide students with a foundation in Neuroscience that will allow her to formulate questions and interpret current findings about the brain. The minor in Neuroscience is a chance for students to explore the field by integrating coursework and laboratory experiments across different disciplines.

## NEUROSCIENCE PROGRAM LEARNING OUTCOMES

- A student shall be able to correctly answer questions about basic concepts in neuroscience.
- A student will demonstrate both conceptual understanding and procedural knowledge of common neuroscience techniques, pertaining to both theoretical and applied knowledge.
- A student will be able to demonstrate an understanding of scientific methodology and experimental design, including what constitutes good evidence in scientific literature.
- A student will be able to clearly present scientific data from review and original research articles in both oral and written form.

## Minor in Neuroscience—NEUR (22–23 hours)

### All of the following:

BIO 155	Foundations of Molecular Biology	2 hours
BIO 157	Foundations of Cellular Biology	2 hours
BIO 235	Foundations of Neuroscience	4 hours
PSYC 156	Introduction to Psychology: Culture and Systems	3 hours
or PSYC 157	Introduction to Psychology: Science for the Citizen	3 hours
PSYC 234/	Neuropsychology	3 hours
PSYC 234L	Neuropsychology Lab (required)	1 hour

### One of the following:

BIO 214	Human Physiology	4 hours
BIO 328	General Physiology	4 hours

**One of the following:**

- BIO 232      Animal Behavior
- PSYC 326    Abnormal Psychology
- PSYC 449    Sensation and Perception

- 4 hours
- 3 hours
- 3 hours

