

Neuroscience

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Program Description

Neuroscience is the interdisciplinary study of the relationship between the brain, the mind, and behavior. It is available as a minor at Gettysburg College. Oversight for the Neuroscience minor is provided jointly by the Biology and Psychology departments although any student can minor in Neuroscience.

With the minor, students have the opportunity to gain expertise in the various aspects of neuroscience while pursuing a major in Biology, Psychology or another course of study.

- The **interdisciplinary nature** of neuroscience is reflected in the courses that comprise the minor. These include offerings in biology, chemistry, health sciences, philosophy, physics, and psychology.
- The minor not only prepares students for graduate study in neuroscience, but provides **tools for graduate work** in other areas of biology and psychology, as well as medical school.

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- [Chemistry website](#)

Program Requirements

Requirements

The neuroscience minor consists of **four core courses** and **two electives**.

- The **core courses** provide an introduction to neurobiology, behavioral and cognitive neuroscience, and an exploration of animal behavior and evolution.
- The **electives** may be selected from a variety of courses, allowing students to focus their studies on a particular aspect of neuroscience.

Students intending to go to graduate school in a field of neuroscience are strongly encouraged to complete an **independent empirical research project** with a neuroscience emphasis in their major discipline, as well.

Courses

Core Courses

- Psychology 236 Introduction to Brain and Behavior
- Psychology 238 Cognitive Neuroscience

- Biology 225 Animal Behavior
- Biology 335 Neurobiology

Electives

(Two courses from the following:)

- Biology 211 Genetics
- Biology 212 Cell Biology
- Biology 227 Invertebrate Zoology
- Biology 251 Introduction to Bioinformatics
- Biology 334 Biochemistry
- Biology 340 Comparative Animal Physiology
- Biology 351 Molecular Genetics
- Chemistry 203 Organic Chemistry
- Chemistry 204 Organic Chemistry
- Chemistry 334 Biochemistry
- HS 209 Human Anatomy and Physiology I
- HS 311 Neuromuscular Physiology
- Philosophy 221 Philosophy of Mind
- Philosophy 363 Philosophy of Psychiatry
- Physics 240 Electronics
- Psychology 215 Human Cognition
- Psychology 216 Sensation and Perception
- Psychology 237 Psychopharmacology
- Psychology 336 Behavioral Neuroscience
- Psychology 338 Experimental Cognitive Neuroscience

About the Electives

It's important to note that there are restrictions as to which electives can be used towards the neuroscience minor.

- Courses taken within the **major discipline** -- or which otherwise satisfy a major requirement -- may not be used as electives towards the minor.
- Many of the neuroscience electives come from **biology and psychology**, so this restriction is particularly relevant for biology or psychology majors.

Students should tailor choices of electives to their specific interests in consultation with one of the coordinators of the neuroscience minor.

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Gettysburg College
300 North Washington Street
Gettysburg, Pennsylvania 17325
717.337.6300

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