

NEUROSCIENCE (BI-CO)

haverford.edu/neuroscience

The desire to understand human and animal behavior in terms of nervous system structure and function is longstanding. Historically, researchers and scholars have approached this task from a variety of disciplines, including medicine, biology, psychology, philosophy, and physiology. The field of neuroscience emerged as an interdisciplinary approach, combining techniques and perspectives from these disciplines, as well as emerging fields such as computation and cognitive science, to yield new insights into the workings of the nervous system and behavior.

The minor in Neuroscience allows students with any major to pursue interests in behavior and the nervous system across disciplines. Students should consult with the faculty coordinator or any member of the advisory committee in order to declare the minor.

LEARNING GOALS

The goals of the minor include enabling students to gain:

- a basic understanding of the organization of the nervous system and its relation to categories of behavior such as motor control, sensation and perception, motivational states, and higher cognition.
- an appreciation of and fluency with the many levels at which the nervous system can be studied, including molecular, cellular, systems, behavioral and cognitive neuroscience levels.
- an appreciation of the interdisciplinary nature of neuroscience and the allied disciplines that inform the study of mind, brain, and behavior.
- an ability to closely examine and critically evaluate primary research on specialized, advanced neuroscience topics.

MINOR REQUIREMENTS

- HC PSYC 217 (Behavioral Neuroscience) or BMC PSYC 218 (Behavioral Neuroscience) or BMC BIOL 202 (Introduction to Neuroscience).
- Five credits from the list of approved courses (see the Neuroscience website), with these constraints:

- The five credits must sample from three different disciplines.
- At least three of the five credits must come from primary neuroscience courses (List A).
- At least one of the credits must be at the 300-level or higher.
- One of the five credits may come from supervised senior research in neuroscience.
- No more than two of the six minor credits may count towards the student's major.
- No more than two of the six minor credits may come from institutions outside of the Bi-Co.

A current list of approved courses, divided into List A: Primary Neuroscience and List B: Allied Disciplines, is linked from the Neuroscience Minor website.

FACULTY

At Haverford:

Laura Been

Assistant Professor of Psychology
Neuroscience Minor Coordinator

Rebecca Compton

Professor of Psychology

Roshan Jain

Assistant Professor of Biology

Mary Ellen Kelly

Visiting Assistant Professor of Psychology

At Bryn Mawr:

Dustin Albert

Assistant Professor of Psychology

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