Quick Guide to the Neuroscience Department

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WELLESLEY COLLEGE NEUROSCIENCE DEPARTMENT

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What is neuroscience?

Neuroscience explores how the brain and nervous system function to generate behavior, emotion and cognition. Neuroscience is highly interdisciplinary, integrating biology, psychology, chemistry, physics and computer science. Exploring the complexity of the nervous system requires analyses at multiple levels. Neuroscientists investigate how genes and molecules regulate nerve cell function (cellular/molecular neuroscience), explore how neural systems produce integrated behaviors (behavioral neuroscience), seek to understand how neural substrates create mental processes and thought (cognitive neuroscience) and use mathematics and computer models to comprehend brain function (computational neuroscience). In studying how the brain and nervous system function normally, neuroscientists also hope to better understand devastating neurological and psychiatric disorders.

Research in neuroscience

All of the neuroscience faculty are actively engaged in laboratory research, and we encourage students to become involved in research as early as possible in their time at Wellesley. Information about specific faculty research projects is found on the neuroscience website. The research endeavor is supported by modern instrumentation such as a laser confocal microscope, an MRI for small animal imaging, and a suite of instruments for genomic and proteomic analyses.

The major in Neuroscience offers three areas of concentration:

- cellular and molecular neuroscience
- cognitive neuroscience
- systems and computational neuroscience

See the neuroscience website or the Wellesley course catalogue for additional information about specific courses.