The Neuroscience Program, housed within the Biology department, is a multidisciplinary program designed to provide an integrated, comprehensive, and investigatory learning experience that imparts a broad and strong understanding of the fundamental concepts and research principles that form the neurosciences.

Neuroscience is the study of 1) how the nervous system controls and responds to bodily functions and directs behavior; 2) how nervous system structure and function are determined by genes and the environment; and 3) how the brain serves as the foundation of the mind, awareness and thought. The Bachelor of Science with a major in Neuroscience is intended for students interested in pursuing careers in a variety of health professions and graduate programs, scientific research in academia and industry, or related life science careers.

**Participating Departments and Faculty**

**Biology**
- Theodore E. Burk, Ph.D.
- Soo Chin Cho, Ph.D.
- Alistair Cullum, Ph.D.
- Carol Fassbinder-Orth, Ph.D.
- Mark Reedy, Ph.D.
- Annemarie Shibata, Ph.D.

**Chemistry**
Faculty teaching Biochemistry and Organic Chemistry Lecture and Laboratory I

**Psychology**
- Amy Badura Brack, Ph.D.
- Maya Michelle Khana, Ph.D.
- Gary K. Leak, Ph.D.
- James V. Lupo, Ph.D.
- Dustin Stairs, Ph.D.

**Physics**
- Michael Nichols, Ph.D.
- Janet E. Seger, Ph.D.
- David L. Sidebottom, Ph.D.
- Patricia Soto, Ph.D.

**Mathematics**
- Shin-Chuan Cheng, Ph.D.
- Rebecca Gasper, Ph.D.
- Lance Nielsen, Ph.D.
- Nathan Pennington, Ph.D.

**Philosophy**
- Jerold J. Abrams, Ph.D.
- Michael A. Brown, Ph.D.
- Elizabeth F. Cooke, Ph.D.
- Kevin M. Graham, Ph.D.

**Computer Sciences**
- David W. Reed, Ph.D.
- Mark J. Wierman, Ph.D.

**Pharmacology**
- Shashank Dravid, Ph.D.
- Thomas Murray, Ph.D.
- Kristina A. Simeone, Ph.D.
- Timothy A. Simeone, Ph.D.

**Major in Neuroscience**

**Specific Requirements for Admission to the Neuroscience Major**
Admission to the B.S., Major in Neuroscience program requires sophomore standing, completion of General Biology lecture and laboratory series, General Chemistry lecture and laboratory series, and Introduction to Psychology courses, with a minimum GPA of 3.0 in those pre-requisites.

- B.S., Major in Neuroscience (http://catalog.creighton.edu/undergraduate/arts-sciences/neuroscience/neuroscience-bsneu)