This major is designed for students with an interest in applying mathematical and computational methodologies towards understanding the structure and functioning of the nervous system. It provides progressive training in interdisciplinary and inter-faculty aspects of Neuroscience and serves as a foundation for students interested in pursuing post-graduate education or career opportunities in technically advanced occupations.

**BACHELOR OF SCIENCE (BS) REQUIREMENTS OVERVIEW**

**Eleven Upper Division Courses**
- General Biology — Cell Biology and Physiology
- Neurobiology
- General Chemistry
- Calculus I and II
- Systems Neuroscience: From Synapses to Perception
- Physics for Life Sciences A & B (two courses)
- Introduction to Psychology
- Statistics
- Introduction to Cognitive Neuroscience

**Choose one introductory computational course, in either C/C++, Java, Python, or Matlab**

**Two or Three Advanced Computational Courses**

**One or Two Upper Division Biological Science Course**

**One Upper Division Psychology Course**

**One Advanced Math Course**

**EXPERIENTIAL OPPORTUNITIES**

- **Undergraduate Research**: Work in research labs and engaged in studies that involve the use of computers and other technologies to study the information processing functions of the brain, often in close collaboration with experimentalists.

- **Freshman Science Honors Program**: FSH allows exceptional freshmen to study in an enriched first year science sequence, featuring smaller classes and access to lectures, tours, and field trips

- **Seminar Series**: The USC Neuroscience community, through various institutes, departments and divisions, sponsors a number of different seminar series often featuring guest speakers such as Stefan Heller and Christopher Cowan.

For additional information, including all major requirements, please consult the USC Catalogue or http://dornsife.usc.edu/usc-neuroscience/curriculum/