

NEUROSCIENCE

This major studies questions spanning the entire spectrum of modern neuroscience research and is characterized by collaborative interactions between faculty and students working at many different levels of analysis. It includes faculty from Biological Sciences, Chemistry, Computer Science, Biomedical Engineering, Psychology, Gerontology, Medicine, and Pharmacy.

BACHELOR OF ARTS (BA) GENERAL OVERVIEW

Nine core courses:

- General Biology: Cell Biology and Physiology
- General Chemistry A
- Calculus I
- Introduction to Psychology
- Statistics
- Neurobiology
- Neuroscience Colloquium
- Systems Neuroscience: From Synapses to Perception
- Cellular and Molecular Neuroscience

Four elective courses. Examples include:

- Evolution & Population Genetics
- Epilepsy to Ecstasy: Biological Basis of Neurological Disorders
- Behavioral Neuroscience
- Neuroeconomics

Additional courses required for a Bachelor of Science (BS):

- General Chemistry B
- Organic Chemistry A & B
- Fundamentals of Physics I and II
- One additional upper-division elective

ACADEMIC OPPORTUNITIES

Research: More than 60 USC Neuroscience faculty conduct externally-funded research programs in areas ranging from the molecules that determine neuronal function to the principles of human cognition and emotion. Undergraduates are warmly welcomed to assist them. Students may be eligible to earn upper-division elective credit toward their major for research conducted.

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

Supplemental Instruction: This academic support program provides regularly scheduled, peer-led study sessions for common Biology, Chemistry, Math, and Physics courses.