Neurobiology, Physiology and Behavior
Undergraduate Major
basc.ucdavis.edu/npb

Investigate the functions and forms that shape behavior

All animals — including humans — grow, reproduce, move and respond to stimuli. The nervous system regulates and integrates these specialized physiological responses, determining how organisms interact with their physical and social environments.

In this major you’ll study the functions and behaviors that relate to the physiological mechanisms of animals from cellular, organ system and organism perspectives. You’ll learn about the nervous system and tissues that make up learning, memory, sensation, perception, emotion and movement. Taken as a whole, these make up the physical functions that exist in a living system.
The Neurobiology, Physiology and Behavior undergraduate major prepares you for many careers in the life sciences, especially:

**Biomedical and Biotech** – Bring the processes of biology to medicine and industry to develop technologies and products that help improve our lives and the health of our planet.

**Health Sciences** – This major prepares a student for entrance into medical, veterinary, physical therapy or psychiatry school and other careers helping humans and animals achieve healthy lives.

**Science Education** – Educate and communicate with the public to improve understanding in anatomy and behaviors.

**Foundational Research in Biology** – Use the latest methods and technology to expand the frontiers of knowledge by studying neurology, physiology and behavior.

“Not only was the research incredible, but the guidance and collaboration that our lab produced was so invaluable. I was so proud of all the novel and exciting research I personally helped to produce. Presenting our findings at the Undergraduate Research Conference was certainly a huge moment of pride in my undergraduate career.”

– Sam Elmojahid, ’16 B.S.

Preparing a new generation of leaders for the future

Assistant Professor Becca Calisi studies pigeons to explore how these birds can help humans monitor environmental hazards like lead poisoning.