



**SUMMER
SPRINGBOARD**
Look Inward. Go Upward.

Neurobiology Infosheet

New student admissions for
Summer 2024 are open.



Program Highlights

- Comprehend the fundamental structure and function of the mammalian nervous system.
- Learn how neurobiological research has advanced our understanding of the complexities of the brain.
- Understand and investigate disruptions in the brain caused by injury or neurological diseases.
- Analyze how the nervous system adapts throughout life in response to experiences.
- Cultivate critical thinking and analytical skills through scientific inquiry and experimentation.



2024 Dates

Berkeley

- Session 1: June 16 - June 28
- Session 3: June 30 - July 12
- Session 5: July 14 - July 26



Academic Program Overview

This course offers students a comprehensive introduction and exploration of neurobiology and the fascinating interdisciplinary study of neuroscience, the brain and nervous system. Students will explore "normal behavior" by dissecting the precise mechanisms the nervous system orchestrates thought, action, and emotion. Through a combination of lectures, interactive discussions, and hands-on activities, students will delve into the intricate world of molecules, cells, and the circuits that shape human behavior. From understanding developmental processes to examining the impacts of brain injury and disease, students will gain a holistic understanding of neurobiological principles while fostering a broader perspective on this fascinating field of research. Students will also explore the wide range of job prospects in neurobiology across many sectors including academic research, biotechnology, drug discovery, clinical and medical settings, biomedical engineering, neuroinformatics and more.



Excursions

Students will have the opportunity to visit a local neuroscience center engaged in research and development, as well as interact with professional neurobiologists.

Instructors

Emily Twedell

Emily Twedell received her B.A. in Psychology and Neuroscience from Grinnell College. She was a Research Fellow at the National Institute of Neurological Disorders and Strokes (NIH) investigating properties of midbrain dopamine neurons, and was a clinical researcher at the Motor Neurophysiology Laboratory at the University of Minnesota. Currently, she is a Neuroscience PhD candidate at UCSF, investigating the cellular and circuit mechanisms underlying levodopa-induced dyskinesia. Beyond the lab, Emily enjoys teaching, mentoring, and spending time with her cat, Rhodamine.

Tuition Information:

Residential Students:

- **Includes:** all meals, lodging, excursions, academic course, weekend excursions
- **Excludes:** optional airport pickup and drop off service (available for an additional fee)
- **Price:** \$5,898

Commuter Students:

- **Includes:** lunch, academic course, excursions, programming from 9am to 6pm, Monday-Friday
- **Excludes:** lodging, breakfast, dinner, weekend excursions
 - Weekend excursions can be added on for \$125 per day
- **Price:** \$3,198

Supplements:

- Application fee: \$99 (mandatory, non-refundable)
- Tuition Protection Plan: Allows for cancellation for any reason up until the day of the program. Click [here](#) for more info.



Course Structure

There are nine 3-hour class sessions over the two-week course. During week one, students have class from 9am-12pm, Monday - Friday. During week two students have class from 9am-12pm Monday through Thursday. Wednesday afternoons are dedicated to additional academic time (excursions, speakers).



Typical Schedule



[More info on Airport Transfer](#)

[More info on Unaccompanied Minor Service](#)

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