DREXEL UNIVERSITY COLLEGE OF ARTS AND SCIENCES & SCHOOL OF BIOMEDICAL ENGINEERING AND HEALTH SYSTEMS

Neuroscience (BS)

PROGRAM OVERVIEW

Drexel's Bachelor of Science (BS) in Neuroscience is an interdisciplinary program for students interested in the biological bases of thought and behavior. This major is suited for students considering professional roles or research careers in medicine, neurobiology, neurology, animal science, neuroengineering neuroscience and other health-related fields.

This is a joint program between the Collge of Arts and Sciences' Department of Biology; Department of Psychological and Brain Sciences; and the School of Biomedical Engineering, Science and Health Systems. By combining expertise across disciplines, our innovative curriculum reflects the present and anticipates the future of the rapidly evolving neuroscience field.

Neuroscience majors explore careers in **BIOLOGY, CLINICAL CARE, PSYCHOLOGY, COGNITIVE SCIENCE AND BIOMEDICAL ENGINEERING.**

CONCENTRATIONS

- **CELLULAR AND MOLECULAR NEUROSCIENCE** builds a strong foundation in the cellular, molecular and genetic basis of nervous system function and prepares students for medical school or graduate school in biomedical research.
- **COGNITIVE AND AFFECTIVE NEUROSCIENCE** focuses on the relationship between the brain and its behavior. This concentration focuses on learning and memory; language; attention; emotional processing; and more in healthy and diseased populations.
- **NEUROSYSTEMS AND COMPUTATIONAL NEUROSCIENCE** concentrates on understanding how different regions of the brain work together to process information and generate complex behaviors. Computational neuroscience aims to unravel the fundamental principles of brain function.

ACCORDING TO THE U.S. BUREAU OF LABOR STATISTICS, JOBS FOR MEDICAL SCIENTISTS, INCLUDING NEUROSCIENTISTS, ARE PROJECTED TO GROW BY 17% BETWEEN 2021 AND 2031, WHICH IS MUCH FASTER THAN THE AVERAGE FOR ALL OCCUPATIONS.

INNOVATIVE CURRICULUM

The BS in Neuroscience curriculum helps students to cultivate many highly valued skills across industries that are transferable from job to job. Students develop vital skills such as research design and methods, data collection and analysis, statistics and quantitative reasoning, computational techniques, analytical reasoning and problem-solving, oral and writing skills, and more.

Depending on the student's concentration, coursework may include:

- Cellular and molecular neuroscience
- Behavioral neuroscience
- Cell, molecular and developmental biology
- Cognitive neuroscience
- Methods in human neuroscience
- Computational neuroscience and neuroengineering
- Programming and modeling

**Neuroscience is available as a minor for those pursuing other majors.*

DREXEL CO-OP

Co-operative education options prepare neuroscience students to pursue advanced education and careers across wide-ranging areas, such as:

MEDICINE • BEHAVIORAL NEUROSCIENCE NEUROLOGY • NEUROSURGERY • COGNITIVE NEUROSCIENCE • SOCIAL AND AFFECTIVE NEUROSCIENCE • CLINICAL NEUROSCIENCE NEUROPSYCHOLOGY • ANIMAL SCIENCE AND VETERINARY SCIENCE • BIOLOGICAL PSYCHOLOGY • NEUROENGINEERING BIOTECHNOLOGY • NURSING • HEALTH PSYCHOLOGY • PSYCHOPHYSICS PSYCHOPHYSIOLOGY • PSYCHIATRY SCIENTIFIC WRITING AND JOURNALISM AND MANY OTHERS

BEYOND THE CLASSROOM

RESEARCH OPPORTUNITIES

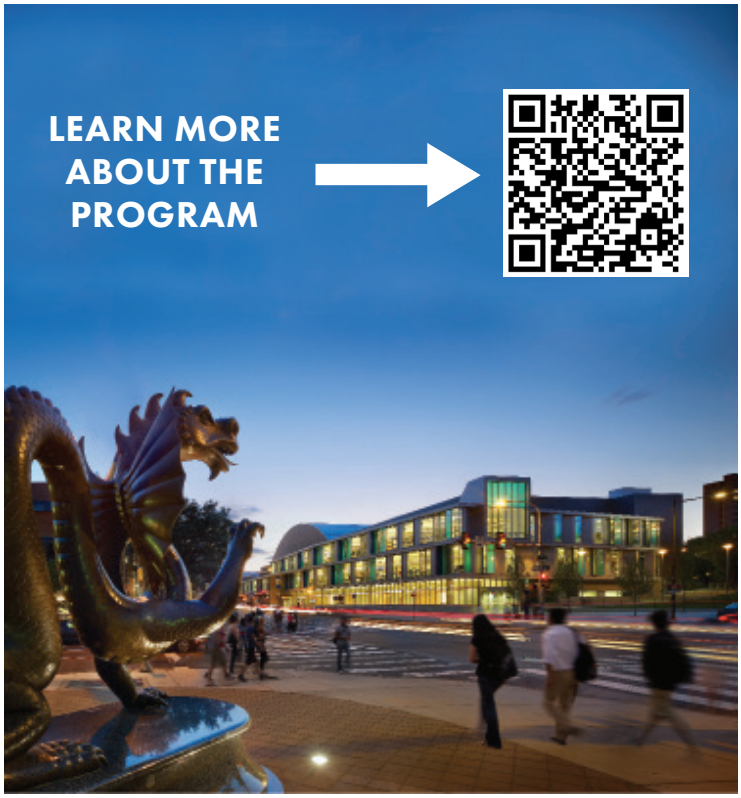
Students may work with faculty in Biology, Neurobiology, Psychological and Brain Sciences, and Biomedical Engineering, who lead active research programs funded by federal agencies including the National Institutes of Health, the National Science Foundation, the Department of Defense, and others, as well as corporate partners and foundations.

INTERDISCIPLINARY APPROACH

Drexel's BS in Neuroscience is a collaboration between the College of Arts and Sciences and the School of Biomedical Engineering, Science, and Health Systems. The program's strengths are built on an interdisciplinary community of students, faculty and staff.

DREXEL NEUROSCIENCE SOCIETY

The student-led Drexel Neuroscience Society works to cultivate an academic and social environment for neuroscience majors by creating a welcoming space to explore a broad range of topics in the discipline – across Drexel University and our larger Philadelphia community.



CONTACT US
coas@drexel.edu
neus@drexel.edu
Undergraduate Admissions
enroll@drexel.edu
FOLLOW US
@drexel_coas