Behavioral neuroscience is a broad and dynamic interdisciplinary field which focuses on understanding physiological brain mechanisms and how they give rise to behavioral functions in humans and animals. The relationship between the brain’s activity and an organism's behavior, both normal and pathological, is examined at multiple levels of analysis, from how a cell functions to how a facial expression conveys trust or fear.

As a behavioral neuroscience major, you will take courses in many different departments because, as you explore the neural basis of behavior and prepare to enter the neuroscience research field, you will need to acquire knowledge and strong critical-thinking skills in the realms of biology, psychology, chemistry and statistics. Additionally, you will have the opportunity to explore disciplines relevant to neuroscience including philosophy and data science.

Students engage in research and clinical projects with our expert faculty members and at renowned institutions across the country and at international sites through Northeastern’s signature co-op program as well as directed studies, honor’s projects and internships. Ample opportunities will enable you to put theory into practice while acquiring valuable hands-on experience.

Our rigorous and comprehensive program of study seeks to prepare students for further graduate studies either in healthcare professions or in a plethora of science disciplines. Majoring in behavioral neuroscience also prepares students for employment in clinical settings or the biotech and pharmaceutical industry and provides a strong foundation for a wide variety of careers in nonprofits, law, science writing, big data, artificial intelligence and more.

Programs

Bachelor of Science (BS)

- Behavioral Neuroscience (http://catalog.northeastern.edu/undergraduate/science/behavioral-neuroscience/behavioral-neuroscience-bs/)
- Behavioral Neuroscience and Philosophy (http://catalog.northeastern.edu/undergraduate/science/behavioral-neuroscience/behavioral-neuroscience-philosophy-bs/)
- Data Science and Behavioral Neuroscience (http://catalog.northeastern.edu/undergraduate/computer-information-science/computer-information-science-combined-majors/data-science-behavioral-neuroscience-bs/)

Minor

- Behavioral Neuroscience (http://catalog.northeastern.edu/undergraduate/science/behavioral-neuroscience/behavioral-neuroscience-minor/)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (http://catalog.northeastern.edu/undergraduate/science/accelerated-bachelor-graduate-degree-programs/#programtext)

Courses

Behavioral Neuroscience Courses

Search BNSC Courses using FocusSearch (http://catalog.northeastern.edu/class-search/?subject=BNSC/)

BNSC 1000. Behavioral Neuroscience at Northeastern. 1 Hour.
Introduces first-year and new transfer students to the major and the field of behavioral neuroscience and to the professional and academic resources available to students at Northeastern University. Acquaints students with their faculty, advisors, and fellow students; provides an initial orientation to undergraduate research, cooperative education, study abroad, and other experiential learning options; familiarizes students with academic support resources and leadership opportunities; provides grounding in the culture and values of the university community—in short, familiarizes students with all skills needed to become a successful university student.

BNSC 1990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

BNSC 2990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

BNSC 3990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

BNSC 4950. Seminar. 1-4 Hours.
Offers an in-depth study of selected topics.

BNSC 4970. Junior/Senior Honors Project 1. 4 Hours.
Focuses on in-depth project in which a student conducts research or produces a product related to the student’s major field. Combined with Junior/Senior Project 2 or college-defined equivalent for 8-credit honors project. May be repeated without limit.

BNSC 4971. Junior/Senior Honors Project 2. 4 Hours.
Focuses on second semester of in-depth project in which a student conducts research or produces a product related to the student’s major field. Requires a 3.500 GPA. May be repeated without limit.

BNSC 4990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

BNSC 4991. Research. 4 Hours.
Offers an opportunity to conduct research under faculty supervision.

BNSC 4993. Independent Study. 1-4 Hours.
Offers independent work under the direction of members of the department on a chosen topic. May be repeated without limit.

BNSC 4994. Internship. 4 Hours.
Offers students an opportunity for internship work. May be repeated without limit.