



Get to Know the
Major

Behavioral Neuroscience

Tips from BNS majors

- You can make it as biology or psychology based as you want
- Can do biotech co-ops, neuroscience research co-ops, psychology-related co-ops
- Lots of requirements (difficult to do a minor unless you take summer classes)
- Interim Director: Dr. Ingemi
- Co-op Opportunities: on campus labs, research at hospitals, biotech
- Clubs: NEURONS, Nu Rho Psi (neuroscience honor society)

Psychology

Quick Facts:

- Very flexible (lots of choice for what classes to take)
- Psychology lab requirement
- Can combine with: criminal justice, data sci, sign language, com sci, business, econ, health sci, human services, linguistics, math, music, theatre
- Chair: Dr. Bex
- Co-op Opportunities: research assistant, mental health care centers, consultant, market research
- Clubs: Psi Chi (honor society), Criminology Forensic Science and Neuropsychology of Criminal Minds Club of Northeastern University

Biochemistry

Quick Facts

- Can combine with BioE, ChemE, and data science
- Can take upper level electives related to specific science subjects (chemistry, physics, biology, neuroscience, math, etc)
- Director: Dr. Fertuck
- Co op Opportunities: Biotech companies, biomedical research, other research
- Clubs: Biochemistry club

Biology

Tips from Nita (COSSDAC President):

- National exam at the end of Gen Chem and Orgo
- Physics lab is very difficult/takes a lot of time

- Chair: Dr. Tilly
- Majors: Biology and Cell and Molecular Biology
- Co op Opportunities: Biotech co-ops, Research co-ops
- Clubs: GCSIG, Biology club, biomedical engineering society, Beta beta beta

Chemistry and Chemical Biology

Quick Facts:

- Can combine with Data Science, Environmental and Sustainability Sciences
- Chemistry and Environmental Chemistry minors
- Chair: Dr. Beuning
- Co op Opportunities: Research Assistant, Biotech, Forensics
- Clubs: Phi Delta Chi (pharmacy fraternity), Omega Chi Epsilon (chemical engineering honor society), student affiliates of the American Chemical Society

Linguistics

Notes:

- Course requirements are very different from other majors in COS
- Can combine with: american sign language, com sci, cultural anthropology, psych, speech-language pathology and audiology

- Director: Dr. Cooper
- Co op Opportunities: Artificial intelligence, programming, research
- Clubs: Northeastern University Speech Language and Hearing Association, Northeastern University Cultural and Language Learning Society, Speech and hearing club

Marine and Environmental Sciences

- Chair: Dr. Trussell
- Associate Chair: Dr. Bowen
- Majors: Ecology/Evolutionary Biology, Environmental/Sustainability Sciences, Environmental Studies, Marine Biology
- Co op Opportunities: Field research, lab research
- Clubs: Marine biology club, Department of Marine and Environmental Sciences Terra Society, Botanical Society of Northeastern

Mathematics

Quick Facts

- Can combine with Biology, Comp Sci, Data Science, Economics, Graphic and Information Design, Business Administration, Philosophy, Physics, Political Science, Psychology, Political Science
- BA has world language requirement
- Chair Dr. Schulte
- Major: BA or BS in Mathematics
- Co op Opportunities: Actuarial Intern, Analyst Intern, Research, Assistant Teacher, Banks
- Clubs: Math club, NEU association for women in math

Physics

Quick Facts

- Can combine with: Comp Sci, Data Science, Mathematics, Music with concentration in music technology, Philosophy, ChemE, Computer Engineering, EE, MechE
- Astrophysics concentration and minor
- Chair: Dr. Williams
- Majors: Physics, Applied Physics, Biomedical Physics
- Co op Opportunities: Research, Imaging molecules, Nanotechnology, Medical devices technician
- Clubs: Society of physics students

Pre-med/health

- Pre-med/health advising program:
- Major in ANYTHING
- Required courses: Generally, 2 semesters of biology, 2 semesters of chemistry, 2 semesters of physics, 2 semesters of organic chemistry, 1 semester of biochemistry, 2 semesters of math, 2 semesters of writing based social science/English
 - <https://undergraduate.northeastern.edu/prehealth/academics-2/overview/>
- Entrance Exams: DAT, MCAT, OAT, GRE (PA and veterinary), (PA-CAT)
- Medical Applicant Portal: Receive information and updates, track activities and experiences ,organizes materials for applying
- Volunteering: Hospitals, Mental health/crisis centers, Elder care, Veterinary services
- Co op: PCA, Medical assistant, Medical Scribe, CNA*, EMT/paramedic*, patient care technician
- Clubs: Alpha Epsilon Delta (The National Health Preprofessional Honor Society), NU AMSA, AMWA, MAPS, Pre-Dental Association, Pre-PA Society, Pre-Veterinary Club (NUPVC), Pre-SOMA

Common Course requirements

- **Math/stats/calculus/data science** (BNS, psych, biochem, bio, chem, marine bio, environmental sci, math, physics)
- **Physics** (BNS, biochem, bio, chem, marine bio, environmental sci, math, physics)
- **Gen chem** (BNS, biochem, bio, chem, marine bio, environmental sci, physics)
- **Organic chem** (BNS, biochem, bio, chem, marine bio)
- **Genetics** (BNS, bio, biochem, marine bio)

Opportunities for All Majors

Research

- On campus labs
 - <https://cos.northeastern.edu/research/researchandlabs/>
- Labs in other universities
- Hospitals
- Biotech companies
- Internships in NUworks
- Co-ops in NUworks

Clubs

- Alpha Epsilon Delta (health preprofessional honor society)
- SASE
- Alliance for diversity in science and engineering
- Sigma Xi (science research honors society)
- Beta Gamma Epsilon (science fraternity)
- Evolve (fund for healthcare and life sciences)
- COSSDAC
- OStem (LGBT in Stem)
- NU Sci Magazine