

## WELCOME



Carmen Sceppa MD, PhD, FGSA

Welcome and thank you for your interest in Northeastern University's Bouvé College of Health Sciences. I am Dr. Carmen Sceppa, Dean of the College. We are excited to show you the opportunities that await you as a student at Bouvé, where our goal is advancing health for all, from campus to community; from cells to society; from local engagement to global impact.

Individuals who want to make an impact will flourish at Bouvé. Within our classrooms and labs, you will find a vibrant, inclusive, and supportive environment across all disciplines: pharmacy, nursing, health sciences, pre-med, pre-health, speech-language pathology, and public health. The cornerstone of our curriculum across all areas is a core belief in a hands-on, experiential learning model that integrates classroom and real-world settings. We are educating the next generation of health leaders, clinicians, advocates, researchers, and entrepreneurs to think differently, to innovate, and collaborate across disciplines and specialties.

By joining Bouvé, you are on your way to career success and the results speak for themselves. Our graduates are leaders in their chosen fields, driven by purpose and a desire to make a difference. Come and explore Bouvé College of Health Sciences, experience an education that empowers you to make an impact, and transform the future of healthcare.

Thank you,

CarmereSceppa

## **EXPERIENTIAL LEARNING**

#### RESEARCH

Bouvé is an R1 research institution, which means we're able to fund our community's ideas in a big way – so what starts at the cellular level here can make a huge impact for society as a whole. That's why we make sure students have opportunities to get involved as early as their first year.

Bouvé Research areas include:

- Drug Discovery, Delivery, Development, and Nanomedicine
- Cognitive and Behavioral Science
- Health Across the Lifespan

- Occupational and Environmental Health
- Population Health and Health Equity
- Technology and Health

#### CO-OP

Co-op is real-world, full-time employment where students build hands-on experience towards their future goals. It is not an internship. Students take at least one six-month break from academics to work full-time at a co-op employer in Boston or around the globe. Students gain invaluable experience, hone specialized skills, and develop their own professional networks without adding time to graduation.

Bouvé has an extensive network of over 300 partners in its co-op program, offering students unparalleled opportunities. Recent employers include:

- Blue Cross Blue Shield
- Boston Children's Hospital
- Boston Healthcare for the Homeless
- Dana Farber Cancer Institute

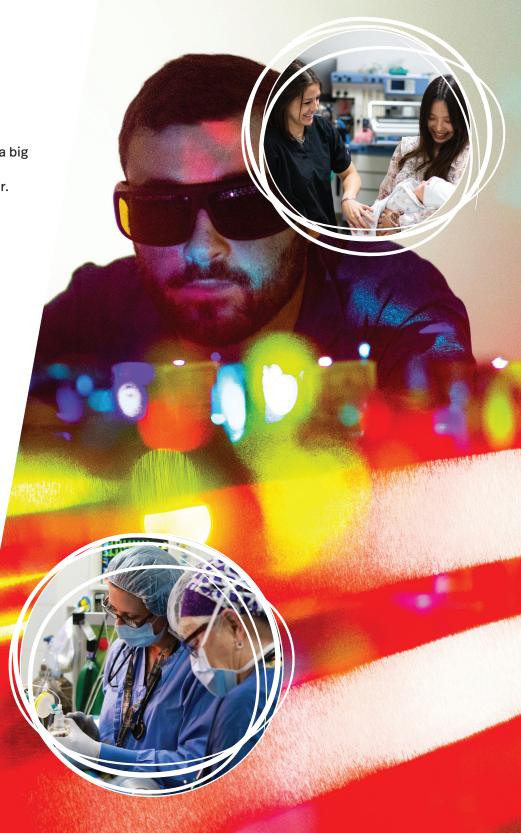
- Eli Lilly
- Mass General Brigham
- Novartis
- Spaulding Rehabilitation Center

Almost all co-ops are paid. During this time students do not pay tuition and typically do not take classes.

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I had the opportunity to go to Argentina and Chile to study global healthcare systems. This helped me not only with my minor in Global Health, but also opened my eyes to how we can improve the American healthcare system.

-Elizabeth Russell, PharmD



## PREMED AND PREHEALTH PATHWAYS

Bouvé students have a varied curriculum focusing on human health and the healthcare system. Research and clinical opportunities help Bouvé students stand out as strong applicants. In addition to the natural and laboratory sciences needed for graduate school, students can take courses in:

- The American Healthcare system
- Communication Skills for the Health Professions
- Healthcare Policy and Administration
- Principles of Epidemiology in Medicine and Public Health
- Global Perspective on Discrimination and Health

For those students interested in careers in nursing, pharmacy, or speech-language pathology, Bouvé offers early assurance programs directly out of high school into the Nursing BSN degree, the Pharmacy PharmD program, as well as the Speech-Language Pathology and Audiology major.



#### **PREMED**

Students are guided through typical prerequisites for medical school, as well as the application process, including free test preparation and online tools to build their competitive applications.



#### **PREPA**

PA programs require 1,000 patient care contact hours, which Bouvé students can obtain through their co-op experiences.



#### **PREPT**

The Doctor of Physical Therapy (DPT) program offers guaranteed acceptance to students who meet established criteria. Students are also eligible for a graduate tuition discount.

Northeastern students' acceptance rate into medical and PA school is

**DOUBLE** 

the national average

**Health Science is** 

## a top choice for premed students

at Northeastern

For more information visit the **premed/ prehealth** website:



## **COMBINED MAJORS**



finance and policy.

Bouvé combined majors are hybrid programs allowing students to specialize in multiple academic areas without sacrificing their graduation timeline. The unique offering can be completed in four-years with options for one to two co-ops.

#### **HOW IT WORKS**

Students take at least nine courses in each of two participating disciplines. Up to two courses may count for both disciplines. At least one course must serve as a bridge between the two disciplines. One of the disciplines will serve as the home college, the point of reference for course registration, as well as graduation. Graduates receive one degree for the combined major.

#### **COMBINED OFFERINGS**

Examples of the combined majors Bouvé offers include:

- Business Administration and Public Health
- Health Sciences and Psychology
- Public Health and Journalism
- Linguistics and Speech-Language Pathology and Audiology



See full list of combined majors.



### **Lauren Ramsaran | Health Science and Business Administration**

Global Health minor, Healthcare Management and Consulting concentration Co-op: Faulkner Community Physicians, Practice Assistant Dialogue: Global Health Care: wellness and leadership (Italy) Research: Institute for Health Equity and Social Justice Research – Studying stigma surrounding recovery from substance use disorder through theater lens

"I love my combined major because I was able to take classes centered around my two different interests and combine them using an intersectional approach. I also love that I was also able to meet so many people in the combined major who were so supportive and had similar passions!"

## HEALTH SCIENCE (BS)



Our BS in Health Science degree is designed for students pursuing clinical careers, like medicine, nursing, dentistry, physician assistant or physical therapy, or going further in science-based graduate programs in public health, such as epidemiology, biostatistics, environmental health, or nutrition.

Our degree gives you the opportunity to master the basic sciences, fulfill graduate entry prerequisites, and gain a deep understanding of the intersection of health care and public health and the impact of health and illness on society. This major is also flexible enough to allow room for minors, combined majors, and global opportunities.

#### **EXPERIENTIAL OPPORTUNITIES**

Students have clinical research opportunities at world-class hospitals and clinics, as well as positions such as patient operations assistant, medical assistant, and physical therapy aides. Recent clinical and co-op experiences include Boston Children's Hospital, Brigham and Women's Hospital, Dana Farber Cancer Institute, and Massachusetts General Hospital.

#### **CURRICULUM**

Courses provide a solid grounding in the sciences with an interdisciplinary focus on public health, clinical skills, and communication skills necessary for a successful career in healthcare. The **PlusOne option** offers a faster track to a Master's degrees, such as Public Health, shortening your time to degree completion.



#### Daisha Joseph | PreMed

**Co-op 1:** Medical Assistant, Brigham and Women's Hospital Urology Clinic

**Co-op 2:** Pairing cancer patients with matching clinical trials, Sagely Health

"I work at the Emerging Epidemics Lab at Northeastern where I'm a research assistant for Samuel Scarpino. I've worked on projects related to hospital admission forecasting to using wastewater surveillance for COVID-19."

### COMMUNICATION SKILLS FOR THE HEALTH PROFESSIONS

SAMPLE COURSE

Teaches students how to communicate effectively with patients and families from culturally diverse backgrounds, as well as with colleagues and other professionals. Provides skills in public speaking and leadership.



Bouvé offered me the flexibility to take all my prerequisites for graduate school, take a minor, and learn about health holistically.

### **Health Science (BS)**

4 YEAR, 2 (6-MONTH) CO-OP EXAMPLE





### John Olawepo, MBBS, PhD Associate Clinical Professor

Dr. John Olawepo is a leading expert in global health and implementation science. His research on chronic illnesses among people living with HIV has positioned him as a prominent voice in HIV, maternal and child health, and health equity. As both a Faculty Scholar at the Institute for Health Equity and Social Justice Research and a physicianscientist with international training, Dr. Olawepo brings exceptional clinical and research expertise to his teaching and scholarship.

#### **Courses taught:**

Introduction to Global Health; Global Perspectives on Discrimination and Health

## PUBLIC HEALTH (BA)



SAMPLE COURSE

## GLOBAL PERSPECTIVES ON DISCRIMINATION AND HEALTH

Educates students on ways discrimination can lead to population-level health disparities around the world, including disease patterns across populations.

Our BA in Public Health degree is for students interested in public health and society locally, nationally, and globally. Graduates may further their education in public health or enter careers in public health, health education, health administration, health consulting and advocacy, communication, health policy, health promotion, or work for social change in nonprofit organizations.

Our BA graduates pursue degrees in law, public policy or urban planning. The BA degree gives you flexibility and the opportunity to gain a solid foundation in public health while focusing on the social and behavioral sciences.

#### **EXPERIENTIAL OPPORTUNITIES**

Students benefit from hands-on learning opportunities both on campus and off. On-campus options include the Institute for Health Equity and Social Justice Research, the Center for Community Health Education Research and Service, and the Social Science Environmental Health Research Institute. Examples of off-campus options include the Boston Public Health Commission, Centers for Disease Control and Prevention, Boston University School of Medicine Global and Local Center for Mental Health Disparities, and Health Resources in Action.

#### **CURRICULUM**

Our courses have an interdisciplinary focus, encompassing health policy, epidemiology, and biostatistics paired with courses in psychology and other social sciences. The **PlusOne** option allows students to save time and money by completing their bachelor's and master's degrees in five combined years, giving them a competitive advantage in the job market.



#### Alex Kane | PlusOne MPH

Minors: Global Health, Psychology, Women Gender and Sexuality Studies Co-ops: Tufts Human Nutrition Research Center on Aging, Research Assistant at Boston Medical Center's Department of Psychiatry Dialogues of Civilization: Public Health in South America; Community and Public Health and Comparative healthcare systems in Argentina

"I really love how versatile a public health degree is at Bouvé. Everyone I meet wants a future in a unique career path, which makes learning in the classroom much more interesting! Public health at Bouvé opened so many doors for me that I didn't even know existed. I loved my time in Bouvé so much I applied to the PlusOne program for my MPH, and I'm so thankful for all the opportunities at Northeastern."

### **Public Health (BA)**

4 YEAR, 1 (6-MONTH) CO-OP EXAMPLE



## NURSING (BSN)



Bouvé's nursing program embraces a community-based primary care approach, preparing students to work in a variety of settings across the lifespan and offering unparalleled clinical experience.

#### **FACILITIES**

The state-of-the-art Goldstein Simulation Lab gives Bouvé students the opportunity to experience modern nursing units without leaving campus. The program incorporates high-tech teaching tools like the computerized mannequin SIM-MAN and the baby-delivering mannequin.

#### **EXPERIENTIAL OPPORTUNITIES**

Bouvé has long standing relationships with Boston's world-class hospitals with frequent co-op experiences at Boston Children's Hospital, Mass General Brigham, Dana Farber Cancer Institute, and others. Students graduate with 12 to 18 months of real-world experience, providing a seamless transition into their healthcare careers.

#### **CURRICULUM**

Students take six clinical courses where they work at a clinical site, a senior comprehensive practicum consisting of one-on-one work with a registered nurse, and choose between two or three six-month-long co-ops. Bouvé students begin clinical experiences earlier than in other programs and graduate with an unmatched quality and number of hands-on clinicals.

#### **OUTCOMES**

Graduates are able to sit for the National Council Licensing Examination (NCLEX-RN) to become a registered nurse. Graduates are practice-ready; they have the skills and confidence to enter the workforce. The program also serves as a springboard for those looking to continue their graduate studies in nursing specialties.



#### Julia Shon | BSN Graduate

**Co-ops:** Mass General Hospital Cardiac Intervention Unit, Boston Children's Hospital Acute Cardiac Care Unit,

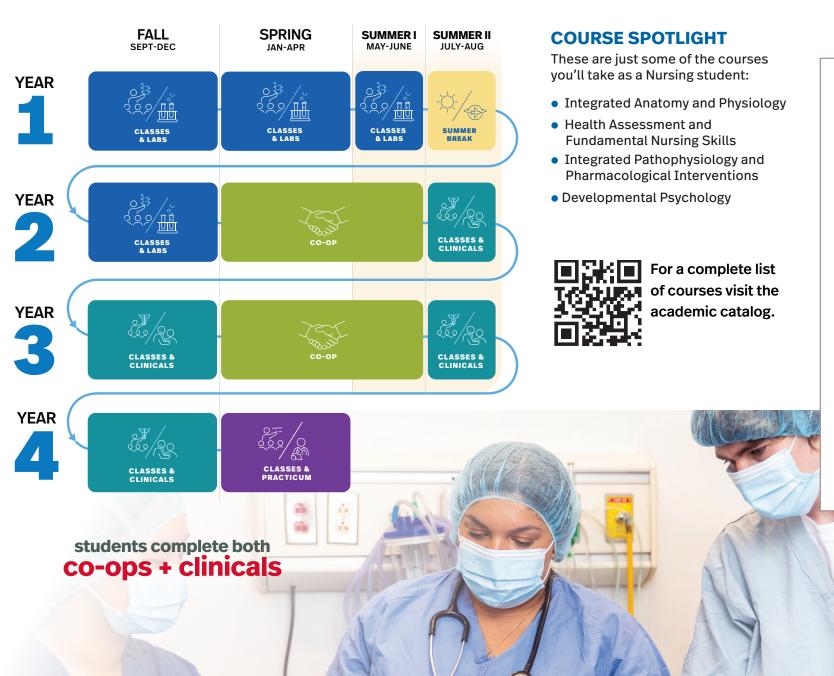
Beth Israel Deaconess Medical Center neonatal ICU and special care nursery.

**Dialogue of Civilization:** Comparative Healthcare systems in London **Currently Employer:** Acute Cardiac Unit, Boston Children's Hospital

"Bouvé gave me so many real world opportunities to prepare me to become a nurse. I was able to explore all my fields of interest and I learned so much from the faculty and working registered nurses. I'm convinced that without Bouvé, I wouldn't be at the job I am now, and I'm so grateful for the experiences I've had and the people I've met."

### **Nursing (BSN)**

4 YEAR, 2 (6-MONTH) CO-OP EXAMPLE



ANGELICA



Valeria A. Ramdin, PhD, MS, APRN-BC, FPCC, CME Associate Clinical Professor

Dr. Ramdin is the Director of Global Health Nursing, as well as Community and Belonging School Leader. Her research includes socioecology of health, implementation science related to cancer, and healthy aging. She is a named Fellow with PlaneTree International Inc. and Board-certified Primary Care Nurse Practitioner.

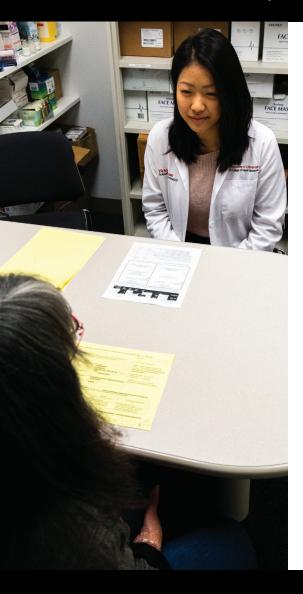
#### **Courses taught:**

Research Methods; Applications for Healthcare

above
state and national average

National Council Licensure Examination for Registered Nurses

## **PHARMACY (PHARMD)**



Bouvé's six-year early assurance Doctor of Pharmacy program is the only one in the US offering paid co-op experiences, providing extensive clinical opportunities for current and future employment needs across diverse careers in pharmacy.

#### **RESEARCH OPPORTUNITIES**

Top-ranked among private pharmacy schools for NIH funding, Bouvé's program boasts more than 120 affiliated hospitals, clinics, community pharmacies, and government agencies, as well as deep connections with the pharmaceutical industry itself.

#### **CURRICULUM**

The PharmD program emphasizes competency-based learning while preparing students for careers as clinicians in pharmacies or in drug development and research whether in the pharmaceutical industry or the public sector. The curriculum reflects pharamacists' expanding role as drug experts in inter-professional healthcare teams, medication safety and pharmaceutical industry research and communications to improve drug therapy outcomes in patients.

#### **OUTCOMES**

Program graduates possess a strong science foundation coupled with unrivaled practical experience, allowing them to succeed in the practice of pharmacy, the advancement of the profession, or further specialized training. Graduates are well prepared for the national pharmacy board exam (NAPLEX), consistently surpassing national pass rates.



#### Sarina Panagiotopoulos | PharmD

**Co-ops:** Mass General Brigham's Anticoagulation Management Service; Tufts Medical Center (central pharmacy and emergency department)

**Research:** Center for Drug Discovery Northeastern: performed assays to determine the inhibitory effect of synthesized compounds on a cannabinoid inhibitory enzyme.

N.U.in: Greece

"The Northeastern PharmD program is the only PharmD program that has paid internships and coops which provide more real-world pharmacy experience than any other. What I love most about my experience in Bouvé is that there is a strong focus on professional development and thinking about my future post-graduation."

The only program with paid pharmacy

CO-OPS in the US

Our student first time pass rate is

90.9%

for NAPLEX exam – above national average

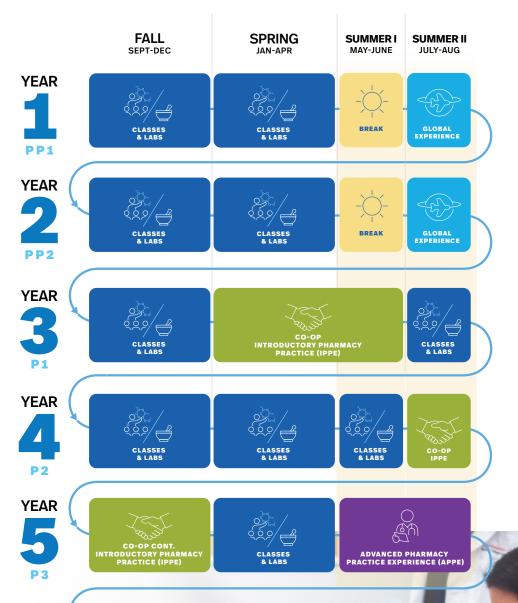
Students are admitted directly into

6-year

**PharmD** program

### **Pharmacy (PharmD)**

6 YEAR, 2 (6-MONTH) CO-OP EXAMPLE



#### **COURSE SPOTLIGHT**

These are just some of the courses you'll take as a Pharmacy student:

- Human Physiology and Anatomy Lab
- Integrated Science and Therapeutics
- Principles of Pharmacy Practice
- Advanced Pharmacy Practice Experience (APPE) Program

For a complete list of courses, visit the academic catalog:



BS in Pharmacy Studies awarded after Year 5 Spring semester; PharmD awarded after Year 6 Spring semester; APPE includes six 6-week rotations in final year for 36 semester credit hours.

Jason Lancaster
PharmD, MEd, RPh, BCPS,
FCCP

Clinical Professor and Researcher in the School of Pharmacy and Pharmaceutical Sciences who bridges the gap from the classroom to direct patient care.

"A degree from our school prepares students to serve patients across the continuum of pharmacy and pharmaceutical sciences. Whether it's via providing direct patient care, the integration of complex technologies, or dissemination of research and information, our students will continue to be at the forefront of the profession long after graduation."







## PHARMACEUTICAL SCIENCES (BS)



The Pharmaceutical Sciences major combines hands-on research, real-world experience, and a cutting-edge curriculum to prepare the next generation of biotech innovators, biomedical leaders, and physician-scientists.

#### **FACILITIES AND RESEARCH OPPORTUNITIES**

From your first year, you'll engage directly in cutting-edge research within world-class laboratories. Work side-by-side with expert faculty on groundbreaking projects in biotechnology and drug discovery, biomedical innovation, and human health.

Through Northeastern's signature co-op program, you'll gain hands-on experience and make a real impact within Boston's world-renowned biotech and healthcare ecosystem. Work with leading pharmaceutical companies, cutting-edge biotech startups, and top-tier hospitals such as Mass General Brigham, Takeda Pharmaceutical, or one of the campus labs. Whether you're pursuing drug discovery, medical innovation, or a pre-med path, Boston offers unmatched opportunities to explore your future in health and science.

#### **CURRICULUM**

Courses include biotechnology, pharmacology, medicinal chemistry, biomedical science, and more. Students complete a senior research project tailored to their interests. With an **optional PlusOne master's degree**, you can earn an additional degree in one year.

#### **OUTCOMES**

Whether you're headed to medical school, dental or vet programs, grad school, or the frontlines of pharmaceutical biotech this program gives you the foundation, experience, and connections to get there and be successful.

# SAMPLE COURSE

### PHARMACOLOGY & MEDICINAL CHEMISTRY

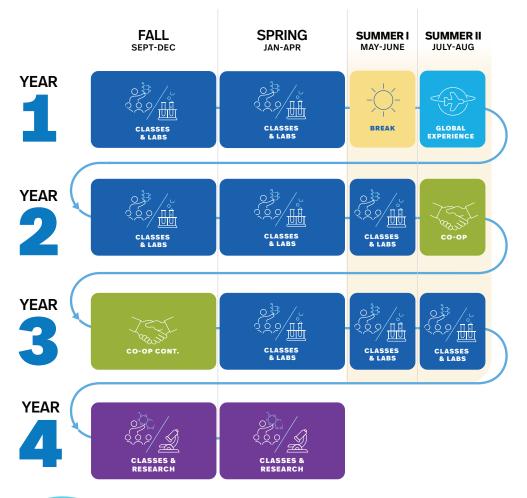
Explores how drugs are designed and how they work, equipping students with the insight to decode and influence the body's systems in the fight against disease.

### The Bouvé Advantage

- Graduate-style mentorship and research at undergraduate level
- World-renowned faculty
- Located in hub of biotech industry and research

### **Pharmaceutical Sciences (BS)**

4 YEAR, 1 (6-MONTH) CO-OP EXAMPLE



#### **COURSE SPOTLIGHT**

These are just some of the courses you'll take as a Pharmaceutical Sciences student:

- Introduction to Contemporary Pharmaceutical Sciences
- Pharmacology and Medical Chemistry
- Immunology
- Pharmacokinetics and Biopharmaceutics
- Pharmaceutics

PreMed + Research Tracks Available

For a complete list of courses, visit the academic catalog:





#### Leigh Plant, PhD Assistant Professor

Dr. Plant's Lab studies how dysregulation of ion channel activity causes disease in humans, including cardiac arrhythmia, sudden infant death syndrome, epilepsy, pain, and muscle paralysis. It is a supportive scientific environment for researchers at all levels and has a robust track record of collaboration to tackle complex problems in biomedical science.

#### **Courses taught:**

Introduction to Contemporary Pharmaceutical Sciences Introduction to Health Science Research

Pharmacology and Medical Chemistry

Senior Thesis



#### **John Famiglietti | Pharmaceutical Sciences**

**Co-op:** Cell biologist at Full Circles Therapeutics **Research:** Dr Yano's pharmacology lab studying dopamine receptors in the brain to profile their different activation mechanisms

"I liked the opportunity to begin researching early in my academic career while simultaneously taking classes and learning about the world and science of pharmacy."

## SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (BS)



The SLPA major provides students with the fundamentals of both speech-language pathology and audiology in preparation for advanced training. After graduation, students can engage in clinical and educational settings, work as assistants or for device manufacturers, or pursue specialization at the graduate level.

#### **FACILITIES**

The on-campus Speech-Language and Hearing Center provides students the ability to participate in live guided observations of assessment and treatment services with children and adults experiencing communication and hearing disorders.

#### **RESEARCH OPPORTUNITIES**

Students have the ability to team up on research projects with internationally-known faculty members in areas including augmentative and alternative communication, aphasia, cognitive communication disorders, literacy, motor speech disorders, neurodevelopmental language disorders, speech technology, and swallowing.

#### **CURRICULUM**

The flexible curriculum is designed to prepare students for careers in speech-language pathology and audiology in both clinical and educational settings. There is an option to pursue a PlusOne, which allows students to earn a bachelor's degree and master's degree in five years, instead of the traditional six years. The curriculum is sufficiently flexible to provide students with the opportunity to minor in an area of related interest.

#### **OUTCOMES**

Graduates develop broad knowledge of speech, language, and hearing disorders and treatments, supported by hands-on experience through co-ops and labs. They are prepared for graduate education as well as careers in schools, hospitals, clinics, private practice, and more.

# BRIDGING MINDS: OVERVIEW OF TO SPEECH, LANGUAGE, AND HEARING IN PEDIATRICS AND ADULTS

**SAMPLE** 

COURSE

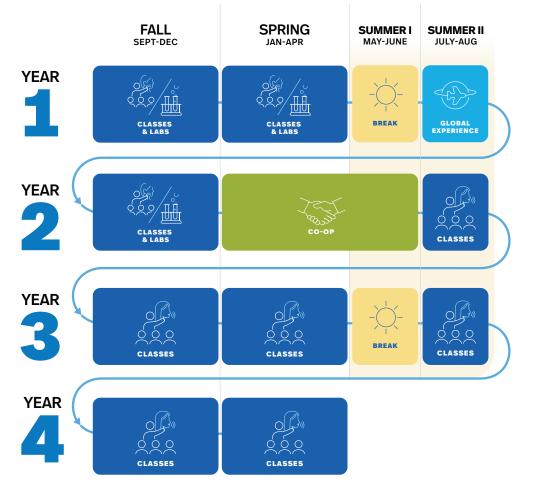
In this course, students are introduced to normal communication development, gain an overview of speech, language, and hearing in adults, and participate in guided clinical observation opportunities.

### The Bouvé Advantage

- Access to the on-campus Speech-Language and Hearing Center
- PlusOne SLP Master's program
- Classes taught by experienced and working clinicians
- Combined majors available with Behavioral Neuroscience, Computer Science, Communication Studies, Data Science, Human Services, and Linguistics

### Speech-Language Pathology and Audiology (BS)

4 YEAR, 1 (6-MONTH) CO-OP EXAMPLE



#### **COURSE SPOTLIGHT**

These are just some of the courses you'll be able to take as a Speech-Language Pathology and Audiology student:

- Bridging Minds: Introduction to Speech, Language, and Hearing Sciences
- Anatomy and Physiology of Speech and Hearing
- Introduction to Audiology
- Language Disorders Across Lifespan

For a complete list of courses including visit the academic catalog:



#### Jonathan Peelle, PhD Associate Professor

Dr. Peelle, a member of both Bouvé's Communication Science and Disorders Department and the College of Science, directs the Lifespan Communication Lab, which explores the neurological basis for speech comprehension through brain imaging techniques such as structural magnetic resonance imaging (MRI) and functional MRI.

#### **Courses taught:**

Bridging Minds: Introduction to Speech, Language, and Hearing Sciences



#### Jamie Klag | PlusOne SLP master's program

**Co-op:** Spaulding Rehabilitation Hospital as a rehab aide on the stroke/neurology unit.

Minor: Psychology

**Research Assistant:** Dr. Allison's Speech Motor Impairment and Learning Lab on a Cerebral Palsy Speech Modification study.

"Opportunities like my co-op at Spaulding have given me such great experience that makes me feel prepared to continue grad school and eventually enter the work force."

PLUSONE ACCELERATED MASTER'S

**OPPORTUNITIES AT BOUVÉ COLLEGE OF HEALTH SCIENCES** 

Northeastern's PlusOne program offers motivated students the opportunity to start earning a master's degree while completing their undergraduate coursework.

You can take four to five graduate courses (max. 16 credits) as part of your undergraduate degree and count them toward your master's. This typically shortens the completion times for a master's degree to one additional year.

#### **BOUVÉ PATHWAYS INCLUDE:**

- Biomedical Sciences
- Health Informatics
- Medicinal Chemistry and Drug Discovery
- Pharmaceutics and Drug Delivery
- Pharmacology
- Public Health
- Speech-Language Pathology

Check our our complete list of PlusOne programs:



## **MINORS**

Bouvé students can expand their knowledge base with intensive study in another subject area, reflecting today's interdisciplinary approach to healthcare. Minors consist of a minimum of four courses designated by a program or department. Students are able to explore minors from other colleges within Northeastern as well.

#### **EXAMPLES OF BOUVÉ MINORS:**

- Early Intervention
- Global Health
- Human Movement Science
- Nutrition

Check our our complete list of minors:





# The Behrakis Health Sciences Center



#### Alex Kane | Health Science Major

While it's a big city research university, you really do get the feel of a smaller college. Classes are small, there are a lot of academic and professional supports, and each college within NU is so unique. I also loved how vibrant the student life is, from clubs to campus events.

#### **Molly Moynihan | Combined Major**

Bouvé is a college with so much opportunity and it is a place where go-getters thrive. Boston is a great college town and there are always things to do on and off campus.

Experience the future of healthcare at Bouvé College of Health Sciences.

#### UNDERGRADUATE ADMISSIONS VISITOR CENTER

Northeastern University
First Floor - West Village F
40 Leon Street
Boston, Massachusetts 02115

617-373-2200 617-373-3100 (TTY) www.northeastern.edu/admissions admissions@northeastern.edu

#### BOUVÉ ENROLLMENT MANAGEMENT

Northeastern University 120 Behrakis Health Sciences Center 30 Leon Street Boston, Massachusetts 02115

617-373-2708 bouve.northeastern.edu becomebouve@northeastern.edu



### **LEARN MORE ONLINE OR IN PERSON**

bouve.northeastern.edu







