

# BIOLOGY

NYC



**Biology** is at the forefront of today's headlines, and now is the time to join the next generation of scientists tackling issues such as climate change, stem cell research, public health, and bioterrorism. The Biology Department offers undergraduate, joint undergraduate-graduate, and professional programs, which can be tailored to your career objectives, whether you're interested in biological research, a health-related profession, teaching, or an advanced degree.

Our undergraduate students conduct advanced research in collaboration with highly respected faculty members, often utilizing resources more common at large research institutions. Hands-on experience also includes fieldwork and internships at some of the world's most prestigious scientific and pharmaceutical companies and organizations.

## BS IN BIOLOGY

The Bachelor of Science in Biology degree is for students seeking graduate study or employment in medicine, dentistry, physical therapy, veterinary medicine, biotechnological, environmental, and other fields. The exceptional coursework, including award-winning labwork, combined with hands-on innovative research with our stellar faculty prepares students for these and many other government, pharma, research, and academic careers.

## BA IN BIOLOGY

The Bachelor of Arts in Biology degree provides a broader liberal arts background and more elective opportunities than the BS degree program, allowing for double majors and minors with the humanities. This degree prepares students for science education, journalism, marketing and sales, law, science writing and consulting, and other degrees, including some health careers.

## BS IN BEHAVIORAL NEUROSCIENCE

Whether you're planning on medical school, or a career in biotech, research, or mental health, a BS in Behavioral Neuroscience will put you ahead of the pack with foundational courses in biology, psychology, and physics (if you're a pre-med student); specialized study in neuroscience, cognitive psychology, and behavioral neuroscience. As for other degrees in our department, at least two semesters of independent research are required, and students can choose to work with a faculty member or seek opportunities at some of the country's best institutions.

## MS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Master of Science in Biochemistry and Molecular Biology program is a partnership between the Biology and Chemistry Departments. It offers a cutting-edge curriculum that provides the training and research experiences required for an increasingly dynamic job market. Students will be uniquely positioned for careers in science and health laboratories, or to pursue a PhD, MD, or DVM, among other advanced degrees.

## PRE-HEALTH JOINT DEGREE PROGRAMS

Students who know they want to enter a professional health sciences program after earning a bachelor's degree can opt to complete a joint degree program with one of our partner schools.

**Note: there are separate admission requirements for the undergraduate and graduate parts of each program.**

## BS IN BIOLOGY / DOCTOR OF OPTOMETRY (DO)

This program consists of three years of study at Pace (undergraduate) and four years at the State University of New York (SUNY) College of Optometry. Graduates receive a BS from Pace and a DO from SUNY.

## BS IN BIOLOGY / DOCTOR OF PODIATRIC MEDICINE (DPM)

This program consists of three years of undergraduate study at Pace and four years at the New York College of Podiatric Medicine. Graduates receive a BS from Pace and a DPM from New York College of Podiatric Medicine.

## BS IN BIOLOGY / PHARM. D

This program consists of three years of study at Pace (undergraduate) and four at Albany College of Pharmacy and Health Sciences (ACPHS). Graduates receive a BS from Pace and a Doctor of Pharmacy degree from ACPHS.

## COMBINED DEGREE PROGRAM

- Biology, BS/Biochemistry and Molecular Biology, MS

## DEPARTMENT CONTACT

For more information, contact:

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[www.pace.edu/dyson/biology-nyc](http://www.pace.edu/dyson/biology-nyc)

**PACE UNIVERSITY**  
Dyson College of Arts and Sciences



## CAREER OPPORTUNITIES

Many of our graduates command starting salaries of \$53,200 or more—on par with graduates from the country's most selective Ivy League schools. There are many career paths students can follow with an undergraduate degree in Biology. Our students are also well prepared for study at the graduate level. With additional certifications and graduate degrees, students can also become scientists, medical doctors, nurses, physician assistants, pharmacists, physical therapists, optometrists, dentists, veterinarians, and teachers.

## RESEARCH OPPORTUNITIES

Student-faculty research is a hallmark of Pace University's Dyson College of Arts and Sciences experience. Our faculty members are actively involved in both basic and applied research in a wide range of areas including cancer research, plant biology, global warming, bacterial pathology, ecological field studies, and tropical ecology. These research projects, many of which are funded by federal grants, include both undergraduate and graduate student participation.

Our students have presented the results of their research work at national and international scientific meetings and have authored papers in scientific journals. They have also been the recipients of international fellowships for continued study in the United States and abroad.

## What can you do with this major?

Our **Bachelor of Arts in Biology** prepares students for career paths such as:

- **Entry-level scientific policy work**
  - Local, State, or Federal agencies
- **Entry-level pharmaceutical marketing and sales**
- **Entry-level science writing and communication**
  - Newspapers, websites, magazines
  - Television, radio
- **Entry-level scientific illustration**
  - Publishing companies
  - Newspapers, websites, magazines

Our **Bachelor of Science in Biology** prepares students for career paths such as:

- **Entry-level laboratory or field research**
  - Academic research laboratories
  - Government research laboratories
  - Pharmaceutical laboratories
  - Research for private, nonprofit organizations
- **Entry-level healthcare or public health work**
  - Hospitals and other medical facilities
  - Government public health agencies
- **Entry-level environmental conservation work**
  - Government agencies (EPA, DEC, national parks)
  - Private, nonprofit organizations (zoos, aquariums)
- **Entry-level forensic science work**
  - Local, State, or Federal agencies

## PROFESSIONAL PREPARATION

Pace University recently received a \$3.1 million endowment to build new science laboratories and construction of state-of-the-art facilities is now complete. In addition to our teaching and research laboratory facilities, the department is affiliated with the Haskins Laboratories on the New York City campus. The Haskins Laboratories is the recipient of a Bill & Melinda Gates Foundation Grant. Students work alongside professors to conduct research studies on parasitic pathogens such as the organisms that cause African sleeping sickness, malaria, and tuberculosis.

The department also offers pre-medical, pre-dental, pre-osteopathic medicine, pre-physical therapy, and pre-veterinary advisement and committees to guide our students through the undergraduate curricula and to aid them with the pre-professional application process.

We provide all the resources needed to extend the range of your knowledge and critical insights beyond that obtained from coursework alone, contributing to a highly active and stimulating learning environment.

## HONOR SOCIETY

The department maintains active local chapters of Beta Beta Beta, the national biology honor society, and Sigma Xi, the international scientific research society, which offer scientific-related activities and field trips.

