



DREXEL UNIVERSITY UNDERGRADUATE PROGRAMS

BIOLOGICAL SCIENCES

DREXEL UNIVERSITY COLLEGE OF ARTS AND SCIENCES DEPARTMENT OF BIOLOGY

In Drexel University's Department of Biology, students learn through hands-on experiences gained in and outside of the classroom. From research in faculty labs to co-op positions with the Children's Hospital of Philadelphia or a study abroad in Equatorial Guinea, undergraduates have the opportunity to explore real-life career options before graduation. Home to one of the largest undergraduate student bodies at Drexel, the department is a leader in STEM education, incorporating the latest techniques and leading the design of new curricular approaches to enhance student learning. With faculty members who are passionate about teaching and research, the biology curriculum offers focus and flexibility, allowing students to define their path to success.

DEGREES OFFERED

Biological Sciences (BS, MS, PhD)

Accelerated BS/MS in Biological Sciences

BS + MD Early Assurance in Biological Sciences and Medicine

FOR MORE INFORMATION

Admissions

drexel.edu/undergrad

College of Arts and Sciences

drexel.edu/coas

Department of Biology

drexel.edu/biology

UNDERGRADUATE STUDIES

The Department of Biology offers a full range of academic programs and concentrations in the biological sciences to suit the diverse interests and career goals of undergraduate students.

Bachelor of Science in Biological Sciences

The Bachelor of Science in Biological Sciences provides the breadth of knowledge needed in biology, while allowing students the flexibility to choose their area of focus. Five concentrations are available: Cell, Molecular Biology, Genetics and Biochemistry; Organismal Biology and Physiology; Pathobiology; Ecology, Evolutionary Biology and Genomics; and General Biology.

Accelerated BS/MS in Biological Sciences

The Accelerated BS/MS program enables academically qualified students to earn both a BS and MS degree within five years of study. Students may apply for admission to the program after completing 90-120 credits toward their BS degree, and must have at least a 3.5 GPA.

Minors

Bioinformatics: The Minor in Bioinformatics combines coursework in biology, computer science and software engineering. This minor is ideal for students interested in a more computational approach to studying the life sciences.

Neuroscience: The Minor in Neuroscience integrates content from cellular, molecular and systems neurobiology with neuropsychology, providing students with a strong foundation in basic principles of neurobiology and neuropsychology.

PATHS TO MEDICAL SCHOOL

Many Drexel biology students go on to successful careers in medicine. For qualified students, there are several paths to medical school:

Traditional Path: Students apply to medical schools across the country in the spring of their junior year.

BS + MD Early Assurance: This program allows students the opportunity to enter the Drexel University College of Medicine after four years of undergraduate study at Drexel, including a six-month co-op experience. The program was designed to meet the needs of students dedicated to a career in medicine who desire to be relieved of the pressure associated with the traditional application process. Qualified incoming freshmen must be ranked in the top 10 percent of their class, have a minimum 3.5 GPA on a weighted 4.0 scale and a combined SAT of at least 1420 or ACT score of 31. Decisions on acceptance to the BS +MD program are made by the medical school admission committee at Drexel University's College of Medicine.

RESEARCH OPPORTUNITIES

The biology department is housed in the state-of-the-art Papadakis Integrated Sciences Building, a Gold LEED-certified research facility featuring a five-story biowall. Students have the opportunity to engage in research throughout their undergraduate years through the Drexel Co-op

program or by joining the lab of a biology faculty member. Research experiences are beneficial to all students studying biology, including those planning professional careers in medicine, veterinary science, dentistry and other allied health professions. Students engaging in research also have the opportunity to complete a senior thesis in biology.

THE DREXEL CO-OP

Through Drexel's cooperative education program, students embark on up to three, six-month periods of employment, exploring their career options, strengthening their résumés and building a professional network in the process. For students planning to pursue advanced degrees in the biological sciences or careers in research, co-op is essential to career development. Students have held co-op positions with a variety of industry leaders, such as GlaxoSmithKline, AstraZeneca, ViroPharma, Fox Chase Cancer Institute, Moss Rehab, Children's Hospital of Philadelphia and many more.

GLOBAL ADVENTURES

Biology students are invited to expand their horizons by participating in study and research abroad opportunities. These experiences allow for great personal growth, academic enrichment and the chance to explore the world while gaining hands-on experience in the discipline. Biology students have studied endangered primates in the forests of Bioko Island, Africa; examined health care in Costa Rica; conducted research in molecular biology labs in China; and explored diversity in culture and education in London, Scotland, Germany and Australia, just to name a few. Housed within the biology department is a unique study abroad opportunity in biodiversity and conservation in Equatorial Guinea.

CAREERS

In the past three decades, advances in molecular biology, genetics and medicine have opened up many new, exciting career opportunities. Biology graduates can pursue a variety of options, including graduate and professional school in medicine, dentistry, veterinary medicine and other health-related areas, as well as careers in research or commercial laboratories, private and government agencies, and academia. Others go on to careers in specialized disciplines, such as genetic counseling, clinical trials coordination, bioinformatics, genomics, clinical lab medicine, public health, policy, science journalism and law.

CONTACT US

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