

BIOLOGICAL SCIENCES



Biological Sciences at Drexel

The biological sciences encompass many fields. Biologists study the structure and functions of living organisms from the individual cell to the full organism, and collectively to the community level. Drexel at BCC's program in Biological Sciences focuses on experientially based instruction to provide you with the knowledge, tools, and skills you'll need.

Our curriculum includes extensive use of computers in the laboratory, as well as a strong foundation in a range of scientific fields to prepare you for a career in the private sector, government, and research laboratories, as well as for advanced graduate study in teaching, medicine, and other health related specialties.

Drexel Co-op for Biological Sciences

Drexel's prestigious co-operative education program, in which students alternate between periods of classroom study and periods of professional work experience, is a key part of the major. Biological Sciences majors participate in one six-month co-op period of full-time employment.

A Few Drexel Co-op Position Titles

- Laboratory Technician Assistant
- Medicinal Chemist
- Rehabilitation Technician
- Safety Assessment Analyst

Employers

Companies that have hired Drexel students include:

- Children's Hospital of Philadelphia
- GlaxoSmithKline
- Johnson & Johnson
- Philadelphia Water Department
- Susquehanna International Group, LLP
- University of Crete

Potential Careers

Biologist. Studies living organisms, including how they relate to their environment, diseases, and genetics. Many engage in research; others work at zoos or study animals in the wild. Most specialize in a facet of biology, such as zoology, microbiology, or cellular biology.

Medical Scientist. Conducts research into human or animal diseases, including their transmission, prevention, and treatment. May test blood and body tissues to ascertain the causes and progress of a disease. Often works in concert with physicians and other health care professionals.

Microbiologist. Investigates the growth and characteristics of microscopic organisms, such as bacteria and viruses.

Pharmaceutical Development Scientist or Engineer. Typically works for drug companies, designing and formulating experiments to develop pharmaceuticals, refine manufacturing processes, and provide technical support.

Courses You'll Really Enjoy

Animal Behavior. Studies the mechanisms and evolution of behavior of animals in relation to their natural environment, including genetics, physiology, and ecology of behavior. Laboratory exercises consist of films, demonstrations, and observational studies at the Philadelphia Zoo and in natural habitats.

Biology of Aging. Discusses aging at the organismal, organ, cellular, and molecular levels. Discussions include chronological versus biological aging, normal and abnormal human physiology of aging, current theories of aging, the effect of caloric restriction on aging, and the molecular mechanisms that underlie normal and abnormal aging.

Ethnobotany. Explores the relation between ancient/cultural botanical knowledge and its current application in modern pharmacology and alternative forms of medicine. Provides an interdisciplinary approach to the study of plants for food, medicine, stimulation, religious rituals, and death.

Virology. Introduces the nature and structure of viruses, including biochemistry and molecular genetics of viral replication, structure, gene expression, latency, and role in disease. Describes major groups of human viruses and their pathogenesis.

For More Information

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