Environmental Biology (BSc)

Admission Requirements

Prerequisite Requirements for BSc:

- **ENG4U, SBI4U, SCH4U, MHF4U**
- **Recommended:** SPH4U
- **Expected minimum admission average:** low 80s – mid 80s

Program Overview

The Environmental Biology program can be taken as either a three or four year degree program with a range of options for double majors and major/minor combinations. The flexible nature of this program allows you to explore other areas of interest, such as International Development, Geography, Statistics, Chemistry, Sociology, Health Policy, and Environmental Studies.

The Environmental Biology curriculum includes courses that focus on areas such as:

- **Biodiversity assessment**
- **Conservation of endangered species**
- **Restoration ecology**
- **Environmental management**
- **Environmental physiology**
- **Invasive species biology, and more.**

Along with your academic studies, field courses will complete the entire experience of practical work by providing you with an opportunity to conduct research at various sites such as Tanzania and Costa Rica (as well as a wide variety of local and provincial sites).

In fourth-year, you will take part in a thesis project under the supervision of a professor of your choice. Through this course, you will have the opportunity to enhance your critical, analytical, and communication skills.

First Year Environmental Biology Major Courses:

- Biology
- Chemistry
- Physical Geography
- Computer Use
- Calculus
- General Education Course

Second Year Environmental Biology Major Courses:

- Ecology
- Statistics for Biologists
- Plants
- Animals
- Genetics
- Cell Biology and Biochemistry
- Organic Chemistry

Upper Year Environmental Biology Course Options:

- Field Course
- Population Ecology
- Conservation Biology
- Biodiversity
- Environmental Biology
- Biology in Environmental Management
- Birds and the environment
- Microbiology
- Quantitative methods in Biology
- Current Topics in Biological Research
- Applied Plant Ecology
- Freshwater Biology
- Biogeography
- Processes of Evolution
- Honours Thesis

Experiential Education

The Faculty of Science provides a rich diversity of opportunities for undergraduate students to engage in Experiential Education. The Co-op Program provides students in this program with the opportunity to integrate their classroom learning with hands-on, paid, work experiences related to their field of study. Co-op students will begin their first work term after their second year of classroom study and can take part in three, full-time, four-month work terms that alternate with periods of academic study.

Here are just a few of the companies you could have the opportunity to work for:

- Sanofi Pasteur
- Health Gene Corporation
- Parks Canada
- City of Toronto
- Grande Prairie Regional College

Visit yorku.ca/science/students/experiential-education/ for more information.

Career Pathways for Environmental Biology

Your studies in Environmental Biology at York will prepare you for a very diverse range of career options.

- Research – academic, government, industry
- Conservationists, Natural Resource Conservation
- Environmental consultant, Environmental Assessment and Restoration
- Public Policy, Health
- Law, Business
- Government agencies
- Ecosystems biologist
- Hydrologist, climatologist
- Agriculture – ecologist, plant biologist, forester, agronomist