The list of environmental challenges in today's world continues to be daunting. Finding solutions to these problems requires professionals who can combine in-depth knowledge with a broad understanding of complex environmental issues. At the University of Toronto, over 400 faculty members work in this interdisciplinary field of study – more than at any other Canadian university.

The School of the Environment provides undergraduate and graduate programs, some in collaboration with other disciplines, to help students to prepare for a variety of vital environmental careers. At the same time, environmental offerings at both the undergraduate and graduate level are provided by other departments, faculties and campuses of the University of Toronto.

STUDENT GROUPS

The Environmental Students' Union (ENSU) is an association for U of T undergraduate students in environmental programs that provides academic and social activities. Visit http://www.utenso.com.

The U of T Environmental Resource Network (UTERN) is an organization for those in the university community who are concerned about the health of the environment. Visit http://utern.org.

The Graduate Environmental Students’ Association (GESA) provides an interdisciplinary community for graduate students. Visit http://gesa.sa.utoronto.ca.

FOR FURTHER INFORMATION...

The Faculty of Arts & Science calendar contains complete listings and descriptions of all School of the Environment programs and courses at http://www.artsci.utoronto.ca.

Undergraduate program inquiries:
David Powell, Undergraduate Student Advisor and Placement Coordinator
Room 1049a, Earth Sciences Centre, Bancroft Wing
416.946.8100 • david.powell@utoronto.ca

Graduate program inquiries:
Pavel Pripa, Graduate Student Advisor & Program Assistant
Room 1023, Earth Sciences Centre
416.978.3475 • environment@utoronto.ca

General inquiries:
Prof. Kimberly Strong, Director
Room 1020, Earth Sciences Centre
416-978-6526 • director.environment@utoronto.ca

Prof. Sarah Finkelstein, Academic Associate Director
Room ES3129, Earth Science Centre
416-978-3613 • finkelstein@es.utoronto.ca

ENVIRONMENTAL PROGRAMS

Core Programs

The School offers major and minor core programs in Environmental Science (BSc Major and Minor) and Environmental Studies (BA Major and Minor).

Environmental Science (BSc) - The School's Environmental Science B.Sc. Major and Minor programs reflect the fact that most environmental issues are complex and involve aspects drawing from many different areas of science. These programs provide students with a breadth of knowledge spanning scientific disciplines, and the tools to understand and integrate scientific principles from across the physical and biological sciences, and across multiple spatial and temporal scales. At its core, environmental science is concerned with the scientific analysis and development of creative solutions to environmental problems. Students are exposed to disciplinary and interdisciplinary knowledge and research skills necessary to function as an environmental scientist. Students are encouraged to consider a second major or minor program in a complementary life or physical science discipline, such as Chemistry, Physics, Environmental Biology, or Forest Conservation Science.

Environmental Studies (BA) - The School's Environmental Studies B.A. Major and Minor are interdisciplinary programs intended for students interested in studying and working in an environmental area, primarily within the social sciences or humanities. These programs offer rigorous academic study of the economic, social, cultural and political forces that drive issues such as species extinction, loss of biodiversity, air and water pollution, and climate change. The interdisciplinary structure of the programs provides grounding in scientific literacy while advancing critical thinking skills that will help students to evaluate complex environmental problems and sustainable solutions for improved environmental health and well-being.

Collaborative Programs

These specialist, major and minor programs combine the School’s interdisciplinary core with a deliberately focused set of discipline-specific courses.

Environmental Chemistry (BSc Specialist) is jointly sponsored with the Department of Chemistry, and focuses on analytical theory, instrumentation and methodological aspects of organic and inorganic contaminants in soil, water, air and biological tissues.

Environmental Ethics (BA Major and Minor) is jointly sponsored with the Department of Philosophy, and explores how value judgments and worldviews affect environmental decision-making.

Environmental Geosciences (BSc Specialist) is jointly sponsored with the Department of Earth Sciences, and focuses on physical, chemical and biological events that have occurred over the past 4.5 billion years including the present influences of humans as agents of geologic change. Topics include earth materials, sedimentary geology, aqueous geochemistry, hydrogeology, near-surface geophysics, and biogeochemistry.
Environment & Behaviour (BSc Minor) is jointly sponsored with the Department of Psychology, and focuses on understanding issues of psychological motivation and attitudes that underlie environmental decision making. Little positive environmental change can occur in the absence of broad-based behaviour changes.

Environment & Energy (BSc Minor) is jointly sponsored with the Department of Geography, and addresses the scientific, technological, environmental and policy aspects of energy use and supply, with a focus on the reduction of environmental impacts.

Environment & Health (BSc: Major and Specialist) is a collaborative program with the Human Biology Program and the Faculty of Medicine. From air pollution and water contamination to climate change, the anthropogenic impact on our environment has significant repercussions on human health. The objective of the Environment and Health program is to provide students with instruction in fundamental biological sciences and to integrate a broad understanding of the environmental determinants of health.

Environment & Toxicology (BSc Specialist) is jointly sponsored with the Department of Pharmacology & Toxicology, and spans the social, physical and life sciences and integrates study of the effects of chemicals not only on the health and behaviour of human beings, but on whole ecosystems. The program addresses the adverse effects associated with therapeutic and environmental chemicals, and emphasizes the application of knowledge of environmental toxicology and risk assessment. Students learn to integrate basic environmental and life science with particular aspects of clinical toxicology and related areas.

Directed Environmental Minors
Directed environmental minors are intended for students interested in acquiring a limited body of environmental knowledge in a specific discipline:

- Environmental Anthropology (BA)
- Environmental Biology (BSc)
- Environmental Chemistry (BSc)
- Environmental Economics (BA)
- Environmental Geography (BA)
- Environmental Geosciences (BSc)
- Geographical Information Systems (BA)
- Physical and Environmental Geography (BSc)

First Year Course Requirements
The BSc programs in the School of the Environment have specific first year requirements. These include having to take first year Biology and two or three of first year Chemistry, first year Mathematics, first year Physics or first year Physical Geography. Which of these courses you actually choose will depend upon the requirements of each particular program, and what specific courses you want to take in second year. For example, ENV234H (Environmental Biology) has a prerequisite of first year biology which in turn requires Grade 12 Biology or equivalent.

The BA programs in the School of the Environment do not require any first year courses, but ENV100H (Introduction to Environmental Studies) is a recommended preparation. First year course selection for students interested in a BA program in the School depends on the particular interests of the students and might include 100-Level courses in Anthropology, Biology, Economics, Geography, History, Philosophy, Political Science or Sociology.

Other Undergraduate Environmental Program Options

- Biodiversity & Conservation Biology (BSc) is offered by the Department of Ecology & Evolutionary Biology. Visit http://www.eeb.utoronto.ca/learning/programs.htm.

- Earth & Environmental Systems (BSc) is offered by the Department of Earth Sciences. Visit http://www.es.utoronto.ca/programs/undergraduate.

- Environmental Biology (BSc) is offered by the Department of Ecology & Evolutionary Biology. Visit http://www.eeb.utoronto.ca/learning/programs.htm.

- Environmental Geography (BA) is offered by the Department of Geography. Visit http://www.geog.utoronto.ca.

- Physical & Environmental Geography (BSc) is offered by the Department of Geography. Visit http://www.geog.utoronto.ca.

- Forest Conservation (BA & BSc) is offered by the Faculty of Forestry. Visit www.forestry.utoronto.ca.

- Energy Systems Engineering (BAsc) is offered by the Division of Engineering Science in the Faculty of Applied Science & Engineering. Visit http://engsci.utoronto.ca/explore_our_programs/majors/energy_systems.

- Environmental Engineering (BAsc Minor) is offered by the Division of Environmental Engineering & Energy Systems in the Faculty of Applied Science & Engineering. Visit http://www.undergrad.engineering.utoronto.ca/Programs/Minors_Certificates/Engineering_Minors_Certificates/minors/environmentaleng.htm.

- Sustainable Energy (BAsc Minor) is offered by the Division of Environmental Engineering & Energy Systems in the Faculty of Applied Science & Engineering. Visit http://www.undergrad.engineering.utoronto.ca/Programs/Minors_Certificates/Engineering_Minors_Certificates/minors/sustainableenergy.htm.

Graduate Programs
Two collaborative environmental programs (Environmental Studies and Environment & Health) provide students with an opportunity to pursue upper-year graduate education in conjunction with other disciplines. Regardless of which home department they choose, students are required to take “core” courses to facilitate interdisciplinary learning. Prospective students should apply to a home department and to the School. Applicants may apply concurrently but candidates must first be admitted to a home department before being admitted to a graduate collaborative program of the School of the Environment.

Environmental Studies Collaborative Program
This program provides graduate students who have an interest in the environment with interdisciplinary learning that complements the discipline-based study that they are doing in their home units. That learning takes place in both the formal courses offered by the School and in the informal contacts with other students and faculty at seminars and other School events. More than 20 units are partners in this program, which allows students to specialize in an area of environmental research and gain exposure to a wide range of intellectual and methodological disciplines focused on environmental issues.

Environmental & Health Collaborative Program
The graduate units of Geography, Planning, Medical Science, Public Health Sciences, and Women and Gender Studies, in conjunction with the School of the Environment, also offer a collaborative program in Environmental & Health. The health implications of human impacts on the environment cover a broad range of issues including air and water quality, contaminated land, and shifts in the distributions of vector-borne diseases (related to changes in land use, climate, and human migration). The program provides students in the health sciences with a broad environmental perspective, as well as exposing environmental studies students to the health implications of environmental quality. This program may also be of interest to students who are concerned with sociological and policy approaches to the field of environment and health.

Other Graduate Environmental Program Options
Master of Environmental Science Professional Program
A 12-month course-based MEvSc program that prepares students for careers as environmental professionals. It is offered by the Department of Physical and Environmental Sciences at UofT Scarborough. A PhD in Environmental Science is also offered. Visit http://utsc.utoronto.ca/gradpes.

Master of Science in Sustainability Management (MScSM)
A 20-month course-based professional MSc program for students who want to pursue management careers in sustainability-related divisions and organizations. It is offered by the Institute for Management and Innovation at UofT Mississauga. Visit http://www.utm.utoronto.ca/mscsm.

The School of the Environment is a unit of the Faculty of Arts & Science at the University of Toronto. www.environment.utoronto.ca

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The Faculty of Arts and Science, Forestry, and Applied Science & Engineering offer other undergraduate programs:

- Biodiversity & Conservation Biology (BSc)
- Environmental Biology (BSc)
- Environmental Chemistry (BSc)
- Environmental Economics (BA)
- Environmental Geography (BA)
- Environmental Geosciences (BSc)
- Geographical Information Systems (BA)
- Physical and Environmental Geography (BSc)

First Year Course Requirements
The BSc programs in the School of the Environment have specific first year requirements. These include having to take first year Biology and two or three of first year Chemistry, first year Mathematics, first year Physics or first year Physical Geography. Which of these courses you actually choose will depend upon the requirements of each particular program, and what specific courses you want to take in second year. For example, ENV234H (Environmental Biology) has a prerequisite of first year biology which in turn requires Grade 12 Biology or equivalent.

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Other Undergraduate Environmental Program Options

- Biodiversity & Conservation Biology (BSc) is offered by the Department of Ecology & Evolutionary Biology. Visit http://www.eeb.utoronto.ca/learning/programs.htm.

- Earth & Environmental Systems (BSc) is offered by the Department of Earth Sciences. Visit http://www.es.utoronto.ca/programs/undergraduate.

- Environmental Biology (BSc) is offered by the Department of Ecology & Evolutionary Biology. Visit http://www.eeb.utoronto.ca/learning/programs.htm.

- Environmental Geography (BA) is offered by the Department of Geography. Visit http://www.geog.utoronto.ca.

- Physical & Environmental Geography (BSc) is offered by the Department of Geography. Visit http://www.geog.utoronto.ca.

- Forest Conservation (BA & BSc) is offered by the Faculty of Forestry. Visit www.forestry.utoronto.ca.

- Energy Systems Engineering (BAsc) is offered by the Division of Engineering Science in the Faculty of Applied Science & Engineering. Visit http://engsci.utoronto.ca/explore_our_programs/majors/energy_systems.

- Environmental Engineering (BAsc Minor) is offered by the Division of Environmental Engineering & Energy Systems in the Faculty of Applied Science & Engineering. Visit http://www.undergrad.engineering.utoronto.ca/Programs/Minors_Certificates/Engineering_Minors_Certificates/minors/environmentaleng.htm.

- Sustainable Energy (BAsc Minor) is offered by the Division of Environmental Engineering & Energy Systems in the Faculty of Applied Science & Engineering. Visit http://www.undergrad.engineering.utoronto.ca/Programs/Minors_Certificates/Engineering_Minors_Certificates/minors/sustainableenergy.htm.

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