

SPECIALIST IN GLOBAL ENVIRONMENTAL CHANGE (14.5 credits)

The study of how life on Earth responds to global environmental change in both natural and human-altered ecosystems.



APPLIED CLIMATOLOGY MINOR (4.5 credits)

This program provides you with a unique educational experience that combines the fundamental understanding of climate change science, associated atmospheric processes and their impacts. The program will train you in skill sets to observe and analyse past and present weather and climate change within the framework of Applied Climatology. It puts emphasis on the relationships between changing climate conditions and countless climate/weather-sensitive industries through the lens of applied science to find solutions to the ongoing and future challenges faced by various sectors. It is intended for students with an interest in climate change, who will benefit from the knowledge to pursue a career that demand basic understanding of the physical and dynamical processes associated with many climatic events and their impacts.

MINOR IN NATURAL SCIENCES AND ENVIRONMENTAL MANAGEMENT (4.0 credits)

The study of the origin and natural history of the Earth and environmental management, and how these fields are applied to current environmental issues.



ENVIRONMENTAL SCIENCE MAJOR (8.5 credits) AND MINOR (4.0 credits)

The study of the core principles of environmental sciences and their interrelatedness.

What is environmental science?

SPECIALIST IN ENVIRONMENTAL GEOSCIENCE (16.0 credits)

The study of the geologic processes that have shaped the world's continents and oceans, and the effects of human activity on geological systems and landscapes.

Environmental science is an interdisciplinary field that incorporates the study of biology, chemistry, geology, and physics, in order to address many of the world's leading challenges including climate change, biodiversity loss and conservation, food security, natural resource management, and pollution and human health. Environmental Science programs will provide you with hands-on science education and will prepare you to help solve the world's environmental challenges head on. Through a powerful combination of field and lab courses, our Environmental Science programs will thoroughly prepare you for a career in the environment in private, public, or academic sectors.



Our environmental science programs:

Global Environmental Change Specialist (*coop option available*)

Environmental Geoscience Specialist (*coop option available*)

Environmental Science Major (*coop option available*) and **Minor**

Natural Sciences and Environmental Management Minor

Applied Climatology Minor

Want a job straight out of school? Here is just a few careers our environmental science graduates have:

- conservation biologist ♦ water treatment specialist
 - ♦ environmental assessment analyst ♦ environmental specialist in engineering consulting ♦ environmental planner in fisheries, forestry, or mining ♦ environmental engineer ♦ environmental geoscientist ♦ environmental geophysicist ♦ environmental remediation specialist ♦ climate scientist ♦ etc, etc...

Want to continue further study? Here is just a few options for our graduates:

- ♦ Combined BSc/ MEng program: A unique opportunity linking the study of fundamental environmental science principles, to its applications in a Masters of Chemical or Civil Engineering program.
- ♦ Graduate school (masters, PhD, technology, education...)



DEPARTMENT OF PHYSICAL
& ENVIRONMENTAL SCIENCES



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<https://uoft.me/EES>

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Did you know?

Besides having accreditations with the Environmental Careers Organization (ECO) of Canada and the Association of Professional Geoscientists of Ontario (APGO), environmental science programs are behind UTSC's unique *Rock Walk* - a collection of massive boulders showing a record our planet's complex history over the past 4.5 billion years, and reflect the geological diversity of Ontario. (watch the video <https://youtu.be/NpDwpVIfVYo>)



Physical & Environmental Sciences
UNIVERSITY OF TORONTO
SCARBOROUGH



Environmental Science