



# Environmental Science

FACULTY OF SCIENCE



## Who We Are

Our society needs scientists trained in the several disciplines that study the quality and conservation of the natural environment. This program offers a strong foundation in earth sciences and biology, and related course-work in chemistry, mathematics, and computer science. There is a summer field course and opportunities for honours thesis research.

*the degree  
that works*

## Why Windsor

### The Right Choice

Quality programs. Exceptional faculty members. A friendly, supportive campus. These are just a few of the reasons why Windsor is the right choice for you. We provide "the degree that works," an innovative, student-focused approach that combines learner-centred teaching with practical experiences to prepare its students for the challenges of tomorrow.

### Vibrant and Dynamic

Windsor ([www.city.windsor.on.ca/home](http://www.city.windsor.on.ca/home)) is a friendly community of 200,000. We're known for our exciting arts and entertainment scene, hundreds of restaurants, and abundant shopping. Outdoor enthusiasts can enjoy our moderate climate, many major waterways and countless parks. And, our strategic, international border location means Michigan is just across the river with concerts, world-class museums and four major league sports teams.

# The Windsor advantage

## Science in Nature's Laboratory

Windsor is ideally located at the centre of the Laurentian Great Lakes region, and in the heart of Carolinian Canada. The BSc program in Environmental Science provides an opportunity to develop the interdisciplinary science background that is critical to investigate environmental issues currently facing Canada. This program seeks to give students the tools to not only study the environment but to also improve human health and the quality of Canadian life by determining the mechanisms affecting the mobility, toxicity and bioavailability of pollutants in the environment, and by contributing to the optimization and evaluation of remediation strategies.

Environmental science encompasses a broad spectrum. This degree brings several different fields of science together, integrating our knowledge of how the earth and its organisms really work. If you care about the quality of the environment and are curious, imaginative, intuitive and observant, then the Environmental Science program is for you.

## Advanced Interdisciplinary Science

This interdisciplinary program includes state-of-the-art course work in Geology, Geography, and Biology (e.g. molecular biology, GIS, contaminant transport, and environmental chemistry), and a course designed to investigate environmental problems in the field. A significant proportion of our students take advantage of an opportunity to conduct environmental

research in the labs of some of the top environmental researchers in the world (e.g. Great Lakes Institute for Environmental Research) via an honours thesis.

## A Degree that Works for a Better Planet

This four-year degree program earns a Bachelor of Science in Environmental Science. Students who achieve a grade-point average of 8.0 (B-) or better will earn a degree with honours, and students who also complete honours thesis research will earn the degree BSc (Honours Environmental Science) with thesis. Honours graduates from this program are ready to enter graduate school in environmental science, or in the area of emphasis chosen through senior-level options in the three core disciplines of Geography, Geology and Biology. While many students may decide to go on to graduate school, our graduates will be ready to begin a career in environmental consulting or education. Also, they may choose careers in wildlife and fisheries management, environmental monitoring, environmental advocacy, environmental protection, depending on their area of specialization. Academic advising for this program is available.

## Curriculum

The interdisciplinary core identifies 32 required courses, including three first-year pairs chosen from the fields of biology, chemistry, computer science, geology, mathematics & statistics, and geography. Second-year core courses are taken in

biology, geology, geography, and chemistry; plus there is a required course in environmental ethics (arts course), and another in resource management (social science course). The remaining eight credits are options from a list of approved biology, geology and geography courses, or, for students who will carry out thesis research, six approved option courses in these areas, and two course credits associated with the thesis research.

## Minors

Minors are available in most subjects in science, including General Science, Environmental Science and Science, Technology and Society. Further details are given in the *University of Windsor Undergraduate Calendar*.

## Admission Requirements

Six Grade 12 U or M courses including Grade 12 U English 1, Grade 12 U Advanced Functions and Introductory Calculus, and two other Grade 12 U sciences – Biology and Chemistry are recommended. A minimum average of 70 per cent is required, as this is a full and challenging program.

## Environmental Science Degrees Available at the University of Windsor:

- BSc (Honours) Environmental Science (with thesis)
- BSc (Honours) Environmental Science
- BSc Environmental Science Major

## FOR MORE INFORMATION CONTACT:

Office of Liaison & Student Recruitment  
University of Windsor  
Windsor, Ontario N9B 3P4  
Phone: (519) 973-7014  
Toll free: (800) 864-2860  
(within Canada and U.S.)  
E-mail: liaison@uwindsor.ca  
Internet: www.uwindsor.ca

Department of Earth Sciences  
University of Windsor  
Windsor, Ontario Canada N9B 3P4  
Phone: (519) 253-3000, Ext 2486  
E-mail: earth@uwindsor.ca



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