

ABOUT THE PROGRAM

The program offered by the Environmental Science Department provides students with a strong academic preparation to understand environmental and resource-oriented issues, and to develop creative and effective solutions to the environmental challenges of our times. Graduates of the Bachelor of Science in Environmental Science are prepared to contribute to an environmentally sound future.



Program Options

- Major in Environmental Science, or Double Major (with Major in another discipline)
- Honours in Environmental Science, or Double Honours
- Co-Operative Education Program
- Minor in Environmental Science

FOR MORE INFORMATION

For more information about the Environmental Science Department at Saint Mary's University, please visit:

smu.ca/envs



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Environmental Science

AT SAINT MARY'S UNIVERSITY



Saint Mary's
University

WHAT IS ENVIRONMENTAL SCIENCE?

Environmental Science is an interdisciplinary field which focuses on the intricate relationships between humans and their environment. Environmental Science requires the application of knowledge from many academic disciplines and focuses this knowledge on complex issues concerning our sustainability from local to global scales. The Department of Environmental Science offers a rigorous interdisciplinary program, which is based on core sciences and includes courses in business, social sciences, and the humanities.



WHY CHOOSE ENVIRONMENTAL SCIENCE?

We are integrally linked with the living and non-living environment, but our daily existence severely impacts the planet that we share with all other organisms. However, there are alternatives to the way we live today.

By enrolling in Environmental Science, you will learn how to enhance your creative thinking and sharpen your critical skills, and get a strong scientific background to enable you to competently address today's complex real-world challenges. You will have a better understanding of why we need to change, and explore what we need to change, and how we can change so that we can all live in an environmentally sustainable way.

CAREER OPTIONS

With an environmental science degree, you can expect a diverse range of career opportunities to open up, with the government, industry, NGOs etc., in fields such as:

- Parks and protected areas management
- Environmental monitoring
- Air quality assessment
- Environmental remediation and restoration
- Environmental risk assessment
- Pollution prevention and control
- Water quality assessment and testing
- Waste management and recycling
- Natural resource management
- Environmental management
- Environmental research
- Consulting
- Environmental education
- ... and many more.

PROGRAM CURRICULUM

The Environmental Science program provides students with a theoretical background and hands-on skills to understand – from a scientific perspective – major environmental topics. Our program curriculum covers a wide array of subjects, including:

- Ecosystems and Ecological Processes
- Biodiversity Loss and Conservation
- Environment and Health
- Climate Change – The Science Basis
- Sustainable Energy Production
- Pollution Control and Mitigation
- Contaminants in the Environment
- Environmental Impact Assessment
- Environmental Remediation and Restoration
- Indigenous Experience and Environmental Impact
- Environmental Pattern Analysis
- Data Science in The Environment
- Environmental Information Management
- Renewable Resource Management
- Sustainable Fisheries
- Environmental Economics
- Sustainable Business Initiatives

