

EARTH AND ENVIRONMENTAL SCIENCES

Experience Map



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University
of Windsor

ENVIRONMENTAL SCIENCE

ENVIRONMENTAL STUDIES

INTERDISCIPLINARY ARTS AND SCIENCE

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EARTH AND ENVIRONMENTAL SCIENCES

SKILLS AND KNOWLEDGE OF EARTH AND ENVIRONMENTAL SCIENCES GRADUATES

PROGRAM HIGHLIGHTS

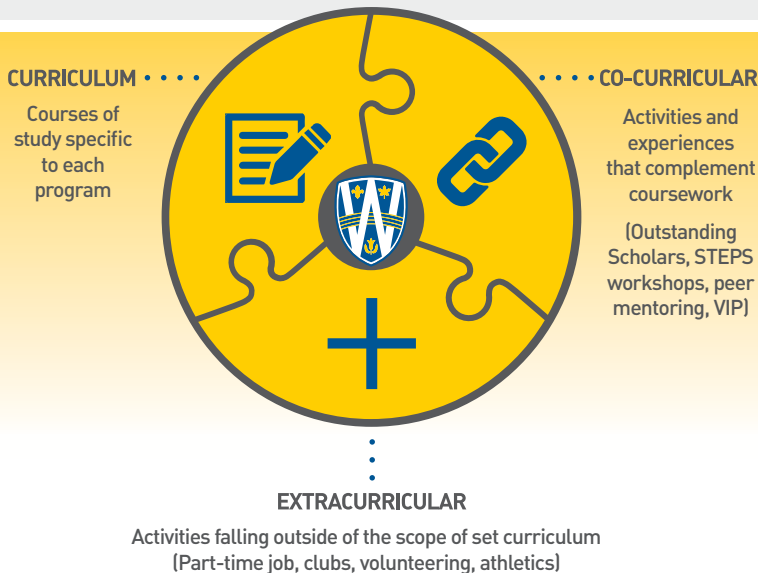
Environmental Science: The University of Windsor is located at the heart of the Great Lakes—an unequalled natural laboratory to study the environment and develop solutions to important environmental issues, on both global and local levels. Our classes provide you with a comprehensive learning experience, incorporating all major components of the physical and living environment—geosphere, hydrosphere, atmosphere and biosphere.

Environmental Studies: Benefit from a one-of-a-kind learning experience that blends diverse academic disciplines. Learn the range of social, cultural, economic, political, legal, and ethical factors that influence human interaction with the environment and gain literacy in aspects of the physical and biological sciences to better understand natural environmental processes.

Interdisciplinary Arts and Science: If you're a highly motivated student who wants knowledge and skills that will familiarize you with the humanities, social sciences and natural sciences, this elite program is for you. Design your program to match your interests and career aspirations. From here, consider a master's program, professional school (medicine, optometry, dentistry, occupational therapy, naturopathic medicine, law, MBA, pharmacy), or teaching (with additional studies).

FUNCTIONAL KNOWLEDGE

- Understanding and analyzing the impact of geographical and ecological factors and human influence on economic, political, cultural, and environmental development
- Discussing major topics in environmental studies, including climate change, population trends, food production and distribution, and globalization
- Observing and assessing changes in various environments and interpreting their impact on life systems
- Operating advanced scientific laboratory equipment and instruments to conduct original field work
- Formulating, organizing, and maintaining detailed and accurate records; performing statistical analyses
- Planning optimal land use and resource allocation in for conservation and sustainability
- Able to visualize and model complex environmental datasets using Geospatial technologies



BUILD YOUR SKILLS AND EXPERIENCE

Your UWindsor experience is more than attending classes. It is a combination of academics, co-curricular activities, and extracurricular involvement. By making the most of all three elements of your university experience, you will maximize your opportunities to build your skills, broaden your personal network, and clarify your long term academic and career goals.

CAREER PLANNING GUIDE

Intentional career planning will help you prepare for your next step after graduation. It is a fluid, dynamic, and continuous process, meaning you can move on or return to an earlier stage at any time. You can even work through simultaneous cycles, like one for your long-term dream job and another for a summer job.



Experience Map

HOW TO USE THIS GUIDE

This guide is meant to help you explore various opportunities throughout the course of your UWindsor experience. It is intended to help you link academics, co-curricular, extra-curricular and career planning activities by suggesting some of the options available to you. This is to help you see what you can do, rather than what you are required to do!

Academics



First Year

- Take required courses including Introduction to Environmental Science and Introduction to Environmental Studies
- Review degree course requirements for all years of study
- Participate in our PASS program during Welcome Week to be provided with the skills necessary to be successful as a Science student
- Begin thinking about specific facets of the environment on which you would like to focus your studies for later years
- Meet with an academic advisor such as the department head or program co-ordinator
- Receive peer mentorship from an upper-year MySci Advisor

Experience



- Begin the process of becoming a LEAD Medallion Scholar and participate in credit and volunteer activities that provide you skills in **Leadership, Engagement, Application and Discovery***
- Apply for a co-curricular experience such as the Volunteer Internship Program (VIP)*
- Be **Engaged** by volunteering in a lab to help with research for professors and graduate students*
- **Discover** through research opportunities as part of the Outstanding Scholars program*
- Research student exchange and study abroad opportunities for middle years to gain a Global Perspective of Science*
- Join a club like the Jull Society, Environmental Studies Club or Science Society

Career



- Create a list of things that you enjoy, areas in which you excel, and your skills
- Meet with Career & Employment Services (CES) to develop a plan for your future years
- Consider taking an interest assessment to help you identify possible career paths
- Attend a CES workshop to learn how to find a summer or part-time job
- Become familiar with the mySuccess online job search tool
- Attend a CES resumé and cover letter workshop to get your resumé critiqued

Middle Years

- Take required courses and check in with academic advisor to make sure you are on the right path
- Look into completing an undergraduate research project in final year★
- Begin taking courses in accordance with Resource Management or Environmental Values and Policy area of concentration (Environmental Studies)
- Seek out internships and courses that offer field experience★
- Start taking courses required as pre-requisites for graduate/professional school
- Consider declaring a minor and/or specialization

- Join a professional association in your field such as the Environmental Studies Association of Canada
- **Apply** your knowledge through a summer Research Assistant or Teaching Assistant position within the Earth and Environmental Sciences Department★
- Participate in the UWill Discover undergraduate research conference★
- Gain a Global Perspective of Science (GPS) through an international exchange or by studying abroad★
- Expand your skills by taking on a summer, part-time or volunteer position
- Gain valuable **Leadership** skills through roles within a club or society

- Research career fields and occupations
- Explore opportunities and meet employers through a job fair or employer information session
- Attend the Graduate and Professional Schools Fair to explore further educational opportunities
- Analyze the requirements for graduate or professional schools
- Make an appointment with Career & Employment Services to explore career options
- Create a LinkedIn profile and have it critiqued
- Take part in informational interviews through such sources as Ten Thousand Coffees

Final Year

- Meet with faculty and academic advisor to review degree requirements
- Complete all required courses to fulfill degree audit
- Apply to graduate through MyUWindsor Portal
- Undertake an undergraduate research project with faculty member★
- Consider completing required courses for Geography teachable option
- Apply your knowledge through a field work, internship, or practicum course to optimize your senior experience★

- Take part in a field work course off-campus
- Conduct field research with faculty member★
- Be **Engaged** through Service Learning opportunities with Let's Talk Science and Science Rendezvous
- Become a tutor for Students Offering Support (SOS)
- Become a MySci Advisor to provide academic support and mentorship for first-year students
- Complete LEAD Medallion Scholars in two areas for Bronze, three areas for Silver, four areas for Gold in accordance with **Leadership, Engagement, Application, Discover**★

- Consider applying to graduate or professional school. Be aware of early application deadlines
- Meet with Career & Employment Services to prepare such application documents as a resumé, cover letter, CV or personal statement
- Attend an Interview Skills Workshop and Job Search Tips Workshop
- Set up a mock interview for professional school or job applications
- Meet employers at the annual job fair in January
- Compose a portfolio of relevant academic and work experience

EARTH AND ENVIRONMENTAL SCIENCES

LIFE AFTER GRADUATION

2016

36

Number of University of Windsor graduates from Earth and Environmental Sciences programs in 2016.

2013

72.2%

Percentage of Earth Sciences/ Geosciences graduates from Canadian universities who continue studying after a Bachelor's degree.
(National Graduates Study 2013)



COMMON INDUSTRIES FOR EARTH AND ENVIRONMENTAL SCIENCES GRADUATES

- Academia: Advanced research
- Agriculture and Food Science
- Biotechnical and environmental research
- Conservation
- Education: Curriculum design, teaching
- Energy and resources sector
- Environmental research and outreach
- Government: Enforcement and policy development
- Industry: Environmental consultation and assessment
- Health-care professions

CAREER TRACKS*

Agricultural specialist	EHS specialist	Land surveyor	Public official
Air quality specialist	Environmental scientist	Lawyer	Research scientist
Business advisor	Forest ecologist	Meteorologist	Soil scientist
Compliance officer	GIS technician	Park ranger	Teacher
Conservation officer	Hydrogeologist	Policy analyst	Waste management director
Consultant	International development officer	Professor	Water quality control
Data entry clerk	Journalist	Project manager	Wildlife management

* Additional education and/or training required for some of the above careers.

CAREER-READINESS COMPETENCIES



Critical Thinking and Problem Solving: Using strategic and creative thinking to make decisions and evaluate solutions

- Prioritizing and concentrating on relevant resources when presented with a wealth of sources of information
- Learning, understanding, and interpreting information to apply knowledge to new situations
- Applying new and/or unfamiliar information and technologies to diverse situations and settings



Professionalism and Work Ethic: Demonstrating personal management practices and a high level of integrity and ethical behaviour

- Managing time, data, and resources to meet deadlines
- Identifying priorities and preferable courses of action to execute necessary tasks
- Engaging diverse audiences in a professional manner



Teamwork and Collaboration: Working as a productive member of a group and collaborating with others to achieve set goals

- Leading and interacting with colleagues who reflect different backgrounds, learning styles, and approaches
- Identifying one's ideal role and contributing to the collective through leading, teaching, and motivating others
- Organizing, leading, and contributing to groups in indoor and outdoor environments; facilitating change and understanding among group members



Communication: Appropriate and effective articulation of ideas and information to a range of audiences

- Preparing and delivering data-driven oral and written presentations and reports using technological aids
- Communicating effectively and efficiently in technical writing to convey the message of a broader piece of work
- Developing effective, precisely organized reports



CAMPUS RESOURCES

- Visit **Leddy Library** and the **Writing Support Desk** on the main floor for help with academic assignments
- Improve study skills through the **Skills To Enhance Personal Success (STEPS)** program
- Discover ways to get involved on campus through the **Student Success and Leadership Centre**
- Explore mentorship opportunities through the **Connecting4Success (C4S)** and **Bounce Back** programs
- Apply to the **Volunteer Internship Program (VIP)** to get involved in the community
- Look into the **Work Study** program for on-campus employment opportunities
- Broaden your cultural awareness through the **International Student Centre** and **Student Exchange Office**
- Get assistance developing your career plan and job search skills from **Career & Employment Services**
- Consult with the **EPICentre** if you are interested in starting your own business
- Seek out assistance with academic accommodation from **Student Accessibility Services**
- Tend to your health and wellness with support from **Student Health Services, Lancer Recreation** and the **Student Counselling Centre**

Recruitment Office

Phone: 519-973-7014

Toll-Free: 1-800-864-2860

Email: info@uwindsor.ca

Department of Earth and Environmental Sciences

Phone: 519-253-3000, Ext. 2528

Email: earth@uwindsor.ca

Career and Employment Services

Phone: 519-253-3000, Ext. 3895

Email: careerservices@uwindsor.ca
experience.uwindsor.ca



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