

uwindsor.ca/science





UWindsor Life

Highlights and Skills

PROGRAM HIGHLIGHTS

Environmental Science (1) Tood and water security for all North Americans depends on the Great Lakes, and environmental scientists play a critical role in their management and sustainability. Here, at the heart of the Great Lakes, we provide our students with comprehensive and balanced training in the physical and living environment - atmosphere, hydrosphere, geosphere, biosphere. Through a systems-based approach, you will learn and apply a diversity of scientific tools and skills to understand the structure, function and health of this globally important freshwater resource. Our students have the skills employers are looking for!

MIN. AVG.* 70% ONTARIO COURSE REQUIREMENTS ENG4U, MHF4U, SCH4U, and SBI4U. 70% average in all required science and math courses

Environmental Studies (1) Sustaining human populations while maintaining environmental quality and diversity is the greatest challenge of our age. Addressing this challenge requires a new generation of multidisciplinary specialists

in human-environment interactions. Pursue your diverse environmental interests in one of the first truly multidisciplinary programs of its kind in the country. Combine study of environmental science, law, policy, ethics and management, among others, to produce a unique educational experience with the relevant knowledge and skills required by potential employers.

MIN. AVG.* 70% ONTARIO COURSE REQUIREMENTS ENG4U required.

Interdisciplinary Arts and Science (1)

If high achievement is in your DNA, this elite program is for you. It's for students who want to develop knowledge and skills in the sciences and the arts, humanities and social sciences. You can tailor your program to match your interests and career aspirations. Our students go on to do research or graduate degrees in their field. This program is small by design to give your talents the attention they deserve

MIN. AVG.* 80% ONTARIO COURSE REQUIREMENTS ENG4U, MHF4U, and two from SBI4U, SCH4U, or SPH4U. MCV4U is strongly recommended.

FUNCTIONAL KNOWLEDGE

- Understand and analyze the impact of natural and human influences on economic, political, cultural, and environmental systems
- Discuss major topics in environmental science and studies, including climate change, population trends and globalization, resource management, and environmental assessment and monitoring
- Observe and assess changes in various environments and interpret their impact on biogeochemical systems
- Operate advanced scientific laboratory equipment and field instruments
- Acquire, organize, and interpret accurate data sets; perform statistical analyses
- Propose optimal land use and resource allocation for conservation and sustainability
- Visualize and model complex environmental datasets using geospatial technologies

(1) Honours – 4-year program (1) Thesis available * Minimum grade point average for admission to program. A higher average may be required.

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 Cycle

Intentional career planning will help you prepare for your next step after graduation and beyond. It is a fluid, dynamic, and lifelong process. You can move on or return to an earlier stage in the cycle at any time.



CURRICULUM

Courses of study specific to each program



CO-CURRICULAR

Activities and experiences that complement coursework (Outstanding Scholars, peer mentoring, VIP)



EXTRACURRICULAR

Activities falling outside the scope of set curriculum (Part-time job, clubs, volunteering, athletics)



Explore Opportunities Using This Chart

Explore a selection of opportunities recommended for students in your program. This chart shows some of your many options – you don't have to do everything on it or limit yourself to it. Engage in opportunities from each of the three categories to set yourself up for success.

High-Impact Practice (HIP) (IIII)

A HIP is an enriching educational experience that can be life-changing and often includes learning outside of the classroom while encouraging meaningful interaction and collaboration, such as:

- Co-op, internship or field experiences
- Research with faculty
- Culminating senior experience
- Capstone courses
- Service-learning
- Learning communities
- Study abroad

First Year

- Take required courses including Introduction to Environmental Science or Introduction to Environmental Studies
- Review degree course requirements for all years of study and mesh them with professional or graduate school aspirations
- Participate in our PASS program during Welcome Week to be coached on the skills necessary to be successful as a Faculty of 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 in the School of the Environment
- Receive peer mentorship from an upper-year **MySci** advisor

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 courses that offer experiential learning
- Continue taking courses required as preparation for

professional schools

- Study for and take professional school admission tests of interest
- Consider completing required courses for Geography teachable option

• Conduct research with faculty member

- Become a tutor for Students Offering Support (SOS)
- Become a **MySci** advisor to provide academic support and mentorship for first-year students

Final Year

• Meet with an academic advisor to go over graduation

• Apply to graduate through UWinsite Student Portal

• Undertake an undergraduate research project with faculty

• Apply your knowledge through a field course to optimize your

• Complete all required courses for your degree

requirements

member III

senior experience

• Complete **LEAD Medallion Scholars** in two areas for Bronze, three areas for Silver, or four areas for Gold in accordance with *Leadership, Engagement, Application, Discover*

ExperienceWays To Get Involved

Academics

Your Coursework





- Begin the process of becoming a **LEAD Medallion Scholar** and participate in credit and volunteer activities
- Be *Engaged* by volunteering in a lab to help with research for professors and graduate students
- Discover research opportunities as part of the Outstanding
 Scholars program
- Join the **USci Network** to take part in collaborative and integrative science experiences
- Join a club like the Jull, Environmental Club or Science Society
- Participate in the **Bystander Initiative workshop** to gain skills that will help you be an effective and supportive ally to prevent sexual assault on campus
- Apply for a co-curricular experience such as VIP Community Service Learning
- Join a professional association in your field such as the
 Environmental Studies Association of Canada or NPGO

- Apply your knowledge through a summer Research Assistant or Teaching Assistant position within the School of the Environment
- Participate in the **UWill Discover** undergraduate research conference
- Gain a **Global Perspective of Science (GPS)** through an international exchange or by studying abroad
- Be Engaged through service learning opportunities with Let's Talk Science and Science Rendezvous
- Expand your skills by taking on a summer, part-time or volunteer position
- Gain valuable *Leadership* skills through roles within a club or society
- Take part in a field course off-campus III

a CDEL career advisor

- Research career fields and occupations with the help of
- Explore opportunities and meet potential employers by participating in **Job Shadow Experience**, job fairs, and industry networking events
- Create a **LinkedIn** profile and have it critiqued by **CDEL**
- Take part in informational interviews and join online communities like **LinkedIn** and **Ten Thousand Coffees** to connect with people in your targeted profession or industry
- Search job postings to learn what skills, knowledge, and credentials you will need for potential careers
- Explore further educational opportunities by attending the **Graduate and Professional Schools Fair** and researching admission requirements for programs that interest you

- Meet with CDEL to prepare application documents like a resumé, cover letter, CV, or personal statement for jobs and education programs you are applying to
- Attend **CDEL's workshops** on interview skills and job search strategies
- Set up a mock interview with a career advisor for professional school or job applications
- Take part in recruitment events and job fairs hosted by **CDEL** and other organizations
- Compose a portfolio of relevant academic and work experience
- Explore professional development opportunities through **Continuing Education**
- If you are considering applying to graduate or professional school, be aware of early application deadlines

Career Plan Ahead For What's Next



- Start planning your career by making a list of things you enjoy, your skills and areas where you excel
- Meet with a career advisor in Career Development and Experiential Learning (CDEL) for help developing a plan for your future years
- Consider a Career Exploration Program appointment to help you identify possible career paths
- Get involved with a part-time job, volunteer opportunity, campus group, or research assistantship
- Attend **CDEL workshops** to learn how to find a summer or part-time job and write a university-level resumé
- Determine courses required to meet professional accreditation, such as with Professional Geoscientists of Ontario (PGO)
- Chat with an advisor during **CDEL's Drop-In** hours to get answers to your career and job search questions

Life After Graduation

Number of Graduates

100% Employment Rate of Graduates

Employment rate of graduates 2 years following degree completion (OUGS Physical Sciences, 2019)

Career Tracks*

Agricultural specialist Air quality specialist Business advisor Climate change manager Compliance officer Conservation officer Consultant Data entry technician

EHS specialist Environmental scientist Forest ecologist GIS technician Hydrologist/Hydrogeologist **Journalist** Lawyer Meteorologist

Modeller Park ranger Policy analyst/regulator Politician Professor Project manager Research scientist Soil scientist

Sustainability specialist Teacher Waste management director Water quality control Wildlife management

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



Common Sectors For Graduates

- · Academia and research
- · Agriculture and food science
- Conservation and outreach
- · Ecosystem assessment/management
- . Education: Curriculum design, teaching

- · Energy and mineral resources sector
- Government: Enforcement and policy development
- Health, law, and business professions
- Industry: Environmental consultation and assessment
- Water resource assessment and management

Career-Readiness Competencies













- Research undergraduate scholarships and bursaries through the **Student Awards and Financial Aid Office**
- Visit Leddy Library and the Writing Support Desk for help with academic assignments
- Check out the Bounce Back program designed to improve academic performance as well as decrease feelings of stress and anxiety through both effective learning strategies and life skills acquisition
- Build leadership skills and find leadership opportunities at the Leadership Hub
- Get advice and support about your academic status by making an appointment with Central Academic Advising
- Seek out assistance with academic accommodation from Student Accessibility Services
- Discover ways to get involved on campus through the **Student Success** and **Leadership Centre**
- Broaden your cultural awareness through the International Student Centre and Student Exchange Office

- Look into the **Ignite: Work Study** program for on-campus employment
- Get assistance developing your career plan and job search skills from Career Development and Experiential Learning
- Develop your entrepreneurial skills and learn how to start your own business at EPICentre
- Find support for Indigenous learners and broaden your understanding of Indigenous culture by visiting the Aboriginal Education Centre -Turtle Island
- Tend to your health and wellness with support from **Student Health Services**, the **Wellness Outreach Office** and **Lancer Recreation**
- Receive confidential mental health counselling delivered by trained professionals at the **Student Counselling Centre**
- Prevent.Resist.Support. Seek personal support or learn more about sexual violence prevention and resistance education through the Office of Sexual Violence Prevention, Resistance & Support
- Explore professional development opportunities through Continuing Education



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Student Recruitment

Phone: 519-973-7014
Toll-Free: 1-800-864-2860
Email: info@uwindsor.ca

School of the Environment

Phone: 519-253-3000, Ext. 2528 Email: earth@uwindsor.ca

Career Development and Experiential Learning

Web: uwindsor.ca/cdel

Email: careerservices@uwindsor.ca