ENVIRONMENTAL SCIENCE (HBSc)

Department of Geography

Environmental Science is an interdisciplinary study of complex environmental problems involving the natural world and human impacts. Students can tailor the scientific focus of the program to their own interests, by choosing courses from Geographical and Earth Science perspectives; Biological/Ecological perspectives; and Physical/Chemical perspectives. Fieldwork, experiential learning, and research opportunities are important to all of the Environmental Science programs. Courses on Social and Policy perspectives are also part of the program. No matter which pathway is followed, some courses on Social and Policy Perspectives are also part of the program. The premise is that those who will develop our scientific knowledge and technological capacities must also have a basic understanding of environmental management, policy, and the human-environment relationship.

MAKE THE MOST OF YOUR TIME AT UTM!

We want to help you maximize your university experience, so we’ve pulled together information and interesting suggestions to get you started. As you review the chart on the inside pages, note that many of the suggestions need not be restricted to the year they are mentioned. In fact, activities such as joining an academic society, engaging with faculty and seeking opportunities to gain experience should occur in each year of your study at UTM. Read through the chart and create your own plan using My Program Plan found at www.utm.utoronto.ca/program-plans.

Programs of Study (POSt)

- Specialist Program ERSP1061 Environmental Science (Science)
- Major Program ERMAJ1061 Environmental Science (Science)
- Minor Program ERMIN1061 Environmental Science (Science)

Check out...

Ever considered an internship? Apply for JEG400/401 and gain hands on experience with the City of Mississauga or the Region of Peel.

What can I do with my degree?

The career you choose will depend on your experience and interests. Visit the Career Centre to explore your career options.

Careers for Graduates: Remediation specialist; Conservation officer; Forestry technician; Hazardous Waste planner; Outdoor Guide; Wildlife technician; Wetlands conservation supervisor; Conservation education coordinator; Environmental risk/impact assessor; Recycling coordinator; Forester; Environmental consultant; Activist; Lobbyist.

Workplaces: Waste Management; Private industry including utilities, construction, energy; Environmental planning; Government; Communications; Transportation; Scientific research groups; Architecture or surveying companies; Forestry; Mining.
**ENVIRONMENTAL SCIENCE**

**MAJOR Program Plan**

### 1ST YEAR
- **Enrol in ENV100YS.** Attain 2.0 credits in Quantitative and Basic Scientific Foundation. View the Academic Calendar for course options.
- **Choose a program of study (Subject POS).** Once you complete 4.0 credits, use the Degree Explorer Planner and the Academic Calendar to plan your degree.
- **Start strong and get informed with utmONE and LAUNCH.** Through the Office of Student Transition, Join a RGASC Peer Facilitated Study Group.
- **Use the Co-Curricular Record (CCR).** Search for opportunities beyond the classroom, and keep track of your accomplishments.
- **Attend the Get Experience Fair through the Career Centre (CC) to learn about on- and off-campus opportunities.**
- **Networking simply means talking to people and developing relationships with them.** Start by joining the Student Association for Geography and Environment (SAGE). Visit the UTM Library Reference Desk.
- **Do you have a professor you really like or connect with?** Ask them a question during office hours. Discuss an assignment. Go over lecture material. Don’t be shy! Learn Tips On How to Approach a Professor available through the Experiential Education Office (EEO).
- **Prefer traveling in Canada? Check out the IEC’s UT MAbroad Co-Curricular Experience.** Go to the IEC for details about Course Based Exchange and funding.
- **Embark on a UTM Abroad Co-Curricular Experience through the IEC.** Speak to the Global Mobility Coordinator and the Environment Programs Academic Counsellor to select the appropriate courses.
- **What is Experiential Education?** It means learn by doing! Gain experience designing and executing an independent senior thesis by enrolling in GGR417YS Honours Thesis. Speak to the Environment Programs Academic Counsellor about enrolling in a course with hands on experience such as ENV496H5 (Restoration Ecology II) and ENV497H5 (Environmental Research Project). Log on to ACORN and request graduation.

### 2ND YEAR
- **Enrol in ENV201H5.** Attain 0.5 credits in Biological & Ecological Perspectives, 1.0 credits in Geographical, Physical & Chemical Perspectives and 0.5 credits in Analytical & Research Methods. View the Academic Calendar.
- **Consider applying for Research Opportunity Program (ROP) courses ENV299Y and ENV399Y. Visit the EEO website for ROP Course Prerequisites.** Attend the RGASC’s P.A.R.T. to enhance your research skills.
- **Use the Career Learning Network (CLN) to find postings for on- and off-campus work and volunteer opportunities.**
- **Work on-campus through the Work-Study program.** View position descriptions on the CLN.
- **Gain practical experience through ENV332H5, a practicum in Environmental project management.** Learn field techniques in Haliburton forest with GGR379H5. Speak to the Environment Programs Academic Counsellor.
- **Establish a professional presence on social media (e.g., LinkedIn).** Attend department research seminars and participate in departmental networking events organized by SAGE.
- **Attend department research seminars and participate in networking events organized by SAGE.**
- **What’s your next step after undergrad?** Entering the workforce? Evaluate your career options through a CC Career Counselling appointment. Create a job search strategy — book a CC Employment Advising appointment.
- **Market your skills to employers.** Get your resume critiqued at the CC. Attend the CC workshop Now That I’m Graduating What’s Next? Write a strong application for further education. Attend the CC’s Mastering the Personal Statement workshop.

### 3RD YEAR
- **Enrol in ENV399H5.** Attain 0.5 credits in Field, Project-Based & Research Perspectives, 1.0 credits in Biogeochemical Perspectives and 0.5 credits in Social, Economic & Policy Perspectives. View the Academic Calendar.
- **Throughout your undergraduate degree:**
  - Use the Degree Explorer to ensure you complete your degree and program requirements.
  - See the Office of the Registrar and the Environment Programs Academic Counsellor.
- **Gain practical experience through ENV332H5, a practicum in Environmental project management.** Learn field techniques in Haliburton forest with GGR379H5. Speak to the Environment Programs Academic Counsellor.
- **Join a professional association.** Check out the Ontario Environment Network or the Canadian Association of Geographers. Go to the Annual Conference of the Environmental Studies Association of Canada.
- **Earn credits overseas!** Study for a summer, term or year at one of 120 universities. The Geography department has identified partners who are most relevant to their students. Speak to the IEC for details about Course Based Exchange and funding.
- **Why not work abroad?** Read up on worldwide employment trends and industry outlooks through GoinGlobal. Attend the Go Global Expo. See if you are eligible for International Experience Canada.

### 4TH OR FINAL YEAR
- **What is Experiential Education?** It means learn by doing! Gain experience designing and executing an independent senior thesis by enrolling in GGR417YS Honours Thesis. Speak to the Environment Programs Academic Counsellor about enrolling in a course with hands on experience such as ENV496H5 (Restoration Ecology II) and ENV497H5 (Environmental Research Project). Log on to ACORN and request graduation.
- **Skills are transferable to any job regardless of where you develop them.** Consider a practical work-based experience through the internship course JEG400/401. Speak to the Environment Programs Academic Counsellor.
- **Write a strong application for further education.** Attend the CC’s Mastering the Personal Statement workshop.
- **Market your skills to employers.** Get your resume critiqued at the CC. Attend the CC workshop Now That I’m Graduating What’s Next? Write a strong application for further education. Attend the CC’s Mastering the Personal Statement workshop.

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*Consult the Academic Calendar for greater detail on course requirements, program notes and degree requirements.*

Visit [www.utm.utoronto.ca/program-plans](http://www.utm.utoronto.ca/program-plans) for the online version and links.
Skills developed in Environmental Science

To be competitive in the job market, it is essential that you can explain your skills to an employer. Visit the Career Centre to learn how to articulate and market the following skills.

**Research:** collect and preserve field organisms as well as utilize logical reasoning to interpret results/data derived from scientific experimentation.

**Technical:** use computer to manipulate and display data and comply with quality control procedures while conducting experiments.

**Quantitative:** apply statistical packages to data to test for significance.

**Communication:** support scientific findings by writing literature reviews of journal articles, and interact professionally with a multidisciplinary team of researchers, technicians, students and professors.

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**Services that support you**

- AccessAbility Resource Centre (AARC)
- Career Centre (CC)
- Centre for Student Engagement (CSE)
- Experiential Education Office (EOO)
- Health & Counselling Centre (HCC)
- Indigenous Centre (IC)
- International Education Centre (IEC)
- Office of Student Transition (OST)
- Office of the Registrar (OR)
- Recreation, Athletics and Wellness Centre (RAWC)
- Robert Gillespie Academic Skills Centre (RGASC)
- UTM Library, Hazel McCallion Academic Learning Centre (HMALC)

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**Department of Geography**

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**Future Students**

**Admission to UTM**

All program areas require an Ontario Secondary School Diploma, or equivalent, with six Grade 12 U/M courses, or equivalent, including English. The admission average is calculated with English plus the next best five courses. The Grade 12 prerequisites for this program are Advanced Functions, Biology and Chemistry or Physics. The approximate average required for admission is mid- to high-70s. More information is available at utm.utoronto.ca/viewbook.

**NOTE:** During the application process, applicants will select the Chemical & Physical Sciences admissions category, but will not officially be admitted to a formal program of study (Specialist, Major, and/or Minor) until after first year.

**Sneak Peek**

Abundant opportunities are available for students to become involved in environmental practice, research and fieldwork (e.g., ENV299Y5 Research Opportunity Program, ENV332H5 Environmental Sustainability Practicum and ENV497H5 Environmental Research Project). Students may also have the opportunity to complete a practical work placement course related to their specific area of interest (JEG400/401Y5 Environmental Geography Internship).

Our curriculum stresses the integrative nature of the study of the environment. Environment faculty members encourage students to become involved in critical thinking, cross-disciplinary collaboration, and the application of concepts to real-life problems.

**Student Recruitment & Admissions**

Innovation Complex, Room 1270
University of Toronto Mississauga
3359 Mississauga Rd
Mississauga ON Canada L5L 1C6

905-828-5400
www.utm.utoronto.ca/prospective

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**Get involved**

Check out student organizations on campus. Here are a few:

- Student Association for Geography and Environment (SAGE)
- UTM Student Union (UTMSU)
- UTM Athletics Council (UTMAC)

For a listing of clubs on campus visit www.utm.utoronto.ca/clubs.