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 the Environmental Science program. 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 required. 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 ERSPE1061 Environmental Science (Science)
- Major Program ERMAJ1061 Environmental Science (Science)
- Minor Program ERMIN1061 Environmental Science (Science)

Check out...

Ever considered an internship? Apply for JEG400/401Y5 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

**Enroll in ENV100Y5.** 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.

## 2nd Year

**Enroll in ENV201H5.** Attain 0.5 credits in Biological & Ecological Perspectives, 1.0 credits in Geographical, Physical & Chemical Perspectives and 0.5 credits in Social, Economic & Policy Perspectives. View the Academic Calendar.

- Use the Career Learning Network (CLN) to find postings for on- and off-campus work and volunteer opportunities.
- Networking simply means talking to people and developing relationships with them. Start by joining the Student Association for Geography and Environment (SAGE).
- Attend the Get Experience Fair through the Career Centre (CC) to learn about on- and off-campus opportunities.

## 3rd Year

**Enroll in ENV330H5.** 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.

- 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.

## 4th or Final Year

**Enroll in ENV430H5.** 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.

- Gain experience designing and executing an independent senior thesis by enrolling in GGR417H5 Honours Thesis. Speak to the Environment Programs Academic Counsellor about enroling in a course with hands on experience such as ENV496H5 (Restoration Ecology II) and ENV497H5 (Environmental Research Project).
- 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.

## HOW TO USE THIS PROGRAM PLAN

Read through each year. Investigate what appeals to you here and in any other Program Plans that apply to you.

Visit [www.utm.utoronto.ca/program-plans](http://www.utm.utoronto.ca/program-plans) to create your own plan using My Program Plan.

Update your plan yearly.

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

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**Visit** www.utm.utoronto.ca/program-plans for the online version and links. Revised on: 9/8/2017
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.

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.

Services that support you

• AccessAbility Services (AS)
• Career Centre (CC)
• Centre for Student Engagement (CSE)
• Experiential Education Office (CEO)
• 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)

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

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905-828-5400
www.utm.utoronto.ca/future-students