

Environmental Science (HBSc)

Specialist

Major

Minor

Department of Physical & Environmental Sciences

See also co-op option

Environmental Science is an interdisciplinary field that incorporates the study of biology, chemistry, geology, and physics, in order to address many of the world's complex environmental challenges including climate change, biodiversity loss and conservation, food security, natural resource management, and pollution and human health. Our Environmental Science programs will provide you with hands-on science education and training and will instill you with a broad range of skills that can prepare you to solve environmental problems at any sector of the man made and natural world. Through a powerful combination of field and lab courses, our Environmental Science programs will thoroughly train you for a career in the environment in consulting, government, non-government, research and teaching.

Complementary Programs: Environmental Studies, Geography, Chemistry, Biology, Physics, Computer Science, Statistics, Health Science, Sociology.

Make the most of your time at UTSC!

We want to help you maximize your university experience, so we've pulled together information and suggestions to get you started, although there are many more! As you review the chart on the inside pages, note that many of the suggestions need not be restricted to the year they are listed. In fact, activities such as joining a student club, engaging with faculty and seeking opportunities to gain experience should occur in each year of your study.

Check out future career opportunities and skills acquired from completing this program:

Competencies & Skills

- Use observations, samples, and specimens to explore theoretical concepts and conduct research
- Analysis of contaminants and pollutants
- Qualitative and quantitative approaches for environmental impact assessments and audits
- Statistical reasoning and methods
- Climate change modelling and impact assessment
- Design, implementation and reporting of research (lab & field) works

Careers for Graduates

- Environmental Consultant
- Environmental Planner
- Natural Resources Education Coordinator
- Environmental Management Services
- Field Technician for Resource Management and Conservation
- Environmental Sustainability
- Environmental Educator
- Environmental Technician/Technologist
- Program Coordinator in Provincial/National Parks
- Climate Services

Further Education

- Environmental Science
- Planning
- Environmental Technology
- Environmental Regulations
- Environmental Health and Safety
- Environmental Law
- Climate change and its impact on Environment
- Environmental Sustainability



Connect with Alumni at events on **CLNx** and through **Partners in Leadership**, **10,000 Coffees**, **LinkedIn** and more!

For more information go to:
uoft.me/alumni-services

**NEED HELP CHOOSING
YOUR PROGRAM?**

See uoft.me/choosing

Environmental Science (HBSc) Major Program Pathway

HOW TO USE THIS PROGRAM PATHWAY

Read through each year; investigate what appeals to you here and in other Program Pathways that apply to you. Note that this Pathway is only a suggestion. **For the most up to date information, please check the UTSC Calendar.**

YEAR 1 (0 - 3.5 Credits)

YEAR 2 (4 - 8.5 Credits)

YEAR 3 (9 - 13.5 Credits)

YEAR 4 or FINAL YEAR (14 - 20 Credits)

CHOOSE YOUR COURSES WISELY

- BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, [MATA20H3 or MATA30H3], [MATA21H3 or MATA35H3 or MATA36H3], [PHYA10H3 or PHYA11H3], EESA06H3.
- Explore different kinds of courses; this will also help with fulfilling breadth requirements and electives.
- Use Degree Explorer and the UTSC Calendar to plan your courses and program.

- STAB22H3 and 1.5 credits from: EESB03H3, EESB04H3, EESB05H3, EESB15H3, EESB16H3; AND 0.5 credit from: BIOB50H3, EESB02H3, EESB17H3, PSCB57H3, PSCB90, CHMB55H3.
- Use Degree Explorer and meet with your Program Advisor to ensure you are on track with your degree.

- 2.0 credits at the C- or D-level in EES courses (taken in year 3 and 4) with at least 0.5 credit at the D-level; OR 1.5 credits at the C- or D-level in EES courses and PSCD11H3 (Communicating Science: Film, Media, Journalism, and Society).
- Use Degree Explorer to ensure you are on track with your degree.

- Use Degree Explorer to ensure you are on track to graduate.
- Ensure you have fulfilled your breadth requirements.
- Consult with your program supervisor early in your final year to check all requirements.
- Register your "Intent to Graduate" on ACORN by the deadline.

DEVELOP YOUR ACADEMIC & RESEARCH SKILLS

- Attend Facilitated Study Groups.
- Schedule an appointment with your Program Librarian for in-depth library research assistance.
- Writing support is available at the Centre for Teaching & Learning (CTL) Writing Centre.

- Check the Research Catalogue and jobs on CLNx for possible research opportunities.
- Enroll in PSCB90: Physical Sciences Research Experience.
- Drop by the Math & Statistics Learning Centre to have your course-related questions answered.

- Enter to win the UTSC Library Undergraduate Research Prize or Poster Forum.
- Enroll in EESC24: Directed Readings in Environmental Science.

- Apply for the Academic Travel Fund through DSL to conduct research, present at a conference, or engage with the academic community internationally.
- Enroll in EESD09/EESD10: Research Project in Environmental Science.

APPLY THEORY TO PRACTICE

- Attend the UTSC Faculty Mix & Mingle Fair to connect with professors and learn more about their specialties.
- Start building your Co-Curricular Record (CCR) and search for Experiential Learning opportunities.

- Check out Global Research Abroad opportunities through the International Student Centre (ISC) to gain valuable international and research experiences.

- Build on your skills and knowledge through relevant events offered through your department, student groups, DSL and the AA&CC.

- Attend the Summer & Full-time Job Fair in January to meet with potential employers looking to hire students for relevant summer and full-time positions.

BECOME AN ENGAGED CITIZEN (LOCALLY & GLOBALLY)

- Join the Environmental and Physical Sciences Students' Association (EPSA) and get involved in their activities.
- Volunteer in the Alternative Reading Week program to gain experience and knowledge about social change and community development.

- Look into Global Learning opportunities, such as the Summer Abroad, Explore, or Student Exchange Programs.

- Consider running for an elected position in EPSA or another campus club.

- Participate in the AA&CC's Partners in Leadership program to learn and network with an alumni mentor about transitioning into the work field or further education.

PLAN FOR YOUR FUTURE CAREER

- Volunteer with organizations to explore your interests; check listings on CLNx.
- Attend the UTSC Get Experience Fair in September and register with SCSU's Volunteer Network Program to explore opportunities.

- Gain experience by applying for a summer, part-time or Work Study position via CLNx.
- Considering grad school? Speak to professors and advisors early so you choose the right courses.
- Explore careers through the AA&CC's Job Shadowing and In The Field programs.

- Plan a career path with a staff member at the AA&CC.
- Check CLNx for networking events and employer information sessions to attend.
- Attend the Graduate & Professional School Fair in September to explore your options.

- Attend the AA&CC's Get Hired job search conference in April/May.
- Attend a Jobs for Grads orientation for a job search "crash course" and for access to full-time job listings.
- Discuss grad school plans early with staff at the AA&CC and your professors; get your Personal Statement reviewed in the AA&CC.

Environmental Science (HBSc)

Department of Physical & Environmental Sciences

SERVICES AT UTSC THAT SUPPORT YOU:

To learn about resources and departments that can support you, download the UTSC Student Experience app or visit uoft.me/StARTNow

Diversity & Inclusion

The University of Toronto Scarborough commits to intentionally foster a welcoming and supportive environment for students, faculty, and staff where diversity is valued, and every member of the community feels a sense of belonging on campus.

utsc.utoronto.ca/edo/

Academic Integrity

The university community supports an environment of academic integrity; these are values that include honesty, trust, fairness, respect and responsibility. Learn about the university's academic rules and how to avoid accidental plagiarism by attending an Academic Integrity Matters (AIM) workshop.

academicintegrity.utoronto.ca/

Healthy Campus

UTSC provides supportive environments, resources and services to empower students to maintain their overall physical and mental health and foster their academic success.

uoft.me/healthycampus/

Co-Curricular Record

The co-curricular record is an official institutional document that recognizes your involvement outside the classroom as a significant part of your U of T experience.

clnx.utoronto.ca/ccr

FUTURE STUDENTS

For admission requirements to UTSC, check out the U of T Scarborough Viewbook or contact:

Admissions & Student Recruitment

University of Toronto Scarborough
Room HL104, Main Floor, Highland Hall
416-287-7529

admissions@utsc.utoronto.ca

CURRENT STUDENTS

Departmental Contact

Tanzina Mohsin,
tanzina.mohsin@utoronto.ca, 416-287-7245

Environmental Science Librarian

Sarah Forbes, s.forbes@utoronto.ca,
416-287-5616

Academic Advising & Career Centre

Room AC213 | 416-287-7561

Department of Student Life

Room SL157 | 416-208-4760

Environmental & Physical Sciences Students' Association (EPSA)

myepsa.ca

DID YOU KNOW...

Environmental Science offers three combined Master's degree programs: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>



Glossary of acronyms:

AA&CC - Academic Advising & Career Centre
CLNx - Career & Co-Curricular Learning Network
CCR - Co-Curricular Record
CTL - Centre for Teaching and Learning
DSL - Department of Student Life
EPSA - Environmental and Physical Sciences Students' Association
ISC - International Student Centre
SCSU - Scarborough Campus Students' Union

DISCLAIMER: Please refer to the calendar for the most current and accurate information on programs and degrees: utsc.calendar.utoronto.ca