Environmental Technology

MACPHAIL SCHOOL OF ENERGY

Overview

Embark on a transformative career with the Environmental Technology program, which blends theory with practical, hands-on training. Designed for those who want to move towards a sustainable future, this program equips you for a professional role in environmental management.

Our program maintains links with industry leaders and associations, ensuring the knowledge and skills you acquire are relevant and valued. This network also opens doors for internships, cooperative work experiences and future employment opportunities.

In this program, you will:

- learn about a range of environmental processes and practices
- learn how to collect air, water, soil and biological samples for analysis, an environmental science practice that is essential for detecting contaminants, assessing ecological health and ensuring compliance with environmental regulations
- perform site reclamation, the process of restoring disturbed or contaminated land to its natural state or to a safe and usable condition, which may involve soil remediation, removal of pollutants, revegetation and long-term monitoring
- learn about the collection, transport, processing, recycling and disposal of waste materials in a way that minimizes the adverse effects of waste on the environment and human health.

Benefit from experiential learning that prepares you for real-world scenarios, encompassing lab and fieldwork.

This program will prepare you for a career where you can make a tangible impact, with opportunities spanning government, transportation, water treatment, mining and chemical manufacturing. The program also addresses the expanding need for environmental policy, non-profit, planning and environmental resource management.

Graduates can further their education by pursuing a bachelor's degree at partner institutions such as Royal Roads University.

If you want a career in sustainability and helping manage and protect the natural environment, this program is for you.

Traits, skills and aptitudes

Those working in the environmental technology field tend to be objective, innovative, and methodical.

You need:

- patience and perseverance to gather and test field samples
- innovation and creativity
- observation and analytical skills
- communication skills
- tactful persistence to ensure compliance with environmental laws
- the ability to work alone or with a team.

You should enjoy working with tools and instruments to perform tasks precisely, analyzing data to find solutions to problems, taking a methodical approach to your work and supervising others.

Professional designations and certifications

This program has been accredited by the Environmental Careers Organization of Canada (ECO Canada) based on conformance with the national accreditation standard for post-secondary environmental programs.

This accreditation has been granted through the Canadian Environmental Accreditation Commission (CEAC), an independent body that oversees ECO Canada's post-secondary accreditation program.

Graduates are eligible for membership in the following professional associations:

- Association of Science and Engineering Technology Professionals of Alberta (ASET) (by passing the certification exam)
- ECO Canada as an Environmental Professional in training
- Chemical Institute of Canada (CIC.)

Credentials

After successfully completing this program, you'll receive a SAIT Environmental Technology diploma.

Practicum, Co-op and Work Integrated Learning

You'll participate in a week-long environmental work practicum where you'll apply the skills you've learned in the program to real-world situations with a local employer.

You'll also participate in an environmental field school where you'll travel to various sites in Kananaskis, west of Calgary, to collect and analyze soil and water samples.

Admission requirements

Applicants educated in Canada

All applicants must demonstrate English language proficiency and meet all the following requirements or equivalents:

- at least 60% in Math 30-1, and
- at least 50% in English Language Arts 30-1 or 60% in English Language Arts 30-2, and
- at least 60% in Chemistry 30.

SAIT accepts high school course equivalents for admission for applicants educated outside Alberta.

Applicants educated outside of Canada

All applicants who were educated outside of Canada must demonstrate English language proficiency and provide proof they meet the program admission requirements with an international document assessment. Find accepted educational documents and assessment options.

SAIT may also accept courses completed at certain international post-secondary institutions.

Costs

2024/25 tuition and fees

The following costs are effective as of July 1, 2024.

Domestic Students

Year	Number of semesters	Tuition fees	Additional fees	Total per year
1	2	$5,730	$1,608	$7,338
2	2	$5,730	$1,608	$7,338
			Total cost:	**$14,676**

The estimated total cost of tuition and fees for domestic students is based on the recommended course load per year.

International Students

Year	Number of semesters	Tuition fees	Additional fees	Total per year
Year	Number of semesters	Tuition fees	Additional fees	Total per year
1	2	$19,890	$1,608	$21,498
2	2	$19,890	$1,608	$21,498
			Total cost:	**$42,996**

The estimated total cost of tuition and fees for international students is based on the recommended course load per year.

Books and Supplies

Books and supplies are approximately $1,800 per full-time year.

This is a bring-your-own-device program with a standard computer hardware and software requirement. See the specific requirements on our computers and laptops page.

Find your booklist on the SAIT Bookstore's website. The booklist will be available closer to the program start date. Can't find your program or course? The bookstore didn't receive a textbook list. Contact your program directly to determine if they're still refining course details or if you're in luck; no textbook purchase is required this term.

Required personal protective equipment (PPE)

The industry-approved PPE you'll need for labs, including a lab coat and CSA-approved safety glasses (with UVEX and side shields), will be discussed during your first few days of classes.