

ENVIRONMENTAL MONITORING & IMPACT ASSESSMENT (EMPD)

Monitor and protect the health of the environment

Work outdoors and make a difference by gaining the skills to monitor the environment. You'll train to monitor important aspects of the environment – air, water, soil, ecology – with a focus on ecosystems impacted by the mining industry. Learn from professors active in the field while getting the knowledge, reporting, and hands-on skills you need to address environmental issues and support environmental site and impact assessments.

Our graduates can be found working at top environmental and engineering consulting firms such as Golder and Associates, Wood/AMEC and Blumetric, government ministries, as well as in smaller firms and non-governmental organizations.

Program highlights

- Unique focus on environmental monitoring (air, water, soil, ecology) with an emphasis on ecosystems impacted by the mining industry
- Learn skills to support environmental site and impact assessments
- Housed in Glencore Centre for Innovation, a green building that is LEED gold-certified
- Opportunities to earn certifications related to the environmental field
- Prepares you to write the Water Operator-in-Training (OIT) exam
- Hands-on work experience with 4-week placement in semester 3

Program of study for 2024-25 Academic Year

Semester 1		Credits
EMI 7100	Air Quality Assessment ¹	3
EMI 7105	Hydrology & Water Quality Assess ¹	3
EMI 7125	Experimental Design & Data Analysis	3
EMI 7235	Ecological Monitoring ¹	3
EMI 7120	GIS Applications	3
EMI 7205	Water Remediation Techniques ¹	3
EMI 7135	Industrial Impact Management ¹	3
Credits		21
Semester 2		Credits
EMI 7200	Environmental Impact Assess & Model	3
EMI 7225	Air Pollution Abatement ¹	3
GIS 7000	Geomatics	3
TEC 7001	Site Assessment and Reporting	3
ECO 7000	Hydrology II ¹	3
ECO 7240	Ecological Monitoring II ¹	3
EMI 7101	Environmental Toxicology ¹	3
Credits		21
Semester 3		Credits
EMI 7500	Work Placement	4
Credits		4
Total Credits		46

¹ Course with Lab component.

Admission requirements

Applicants must be graduates of an Ontario College Diploma, Ontario College Advanced Diploma, Degree or equivalent in an Environmental, Mining, Engineering, or Science-related field or equivalent.

OR

Applicant must possess five years of work experience in a related field (or combination of education and work experience) as judged by the College to be equivalent. Applicants must submit a resume detailing their related experience and a cover letter outlining their competencies and preparedness for the program (any and all postsecondary transcripts must still be submitted).

Program delivery

2024-2025

Fall term start

SEMESTER 1: Fall 2024

SEMESTER 2: Winter 2025

SEMESTER 3: Spring 2025

Specific program pathways

College or university degree opportunities

If you are a graduate of this program, you may continue your studies at a college or university and you may receive credit(s) for your prior college education. Refer to Cambrian's college and university agreement (<https://cambrian.s123.ca/supports-services/articulation-agreements/>) details for further information.

Employment opportunities

Graduates may find employment in various environmental monitoring, auditing, and assessment roles with:

- Private environmental consulting and engineering firms
- Government (Ministry of the Environment, Conservation and Parks, Ministry of Natural Resources and Forestry, Ministry of Energy, Northern Development and Mines)
- Municipalities (conservation authorities, water treatment facilities)
- Non-governmental organizations
- Educational institutions (university and college technicians/technologists, instructors, research assistants)
- Industry (mining, pulp and paper, logging, construction)

Contacts

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INTERNATIONAL ADMISSIONS

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