

ENVIRONMENTAL MONITORING & IMPACT ASSESSMENT (EMPD)

Ontario College Graduate Certificate | 3 semesters | Barrydowne

Our environmental program is here to satisfy the interest individuals have in making a difference. The environmental field is a fairly unique field where workers can be doing the kinds of activities they find interesting, working outdoors, while doing a job that makes the world a better place. Our graduate certificate program aims to provide hands-on skills and applied knowledge to students with a theoretical background in the field.

Our focus is on environmental monitoring, particularly in fulfillment of Environmental Site and Impact Assessments. Knowledge, reporting and hands-on skills are important aspects of what we deliver.

The program's emphasis is on environmental monitoring (air, water, soil, ecology) in support of industry requirements as well as part of Environmental Site/Impact Assessments. Learn from professors who are active in the field; being in Sudbury offers a unique perspective to learn firsthand the consequences of environmental impacts, and provides unique opportunities with on-going monitoring projects. The classroom component of the program is supported by a placement for 'on-the-job' training to ensure you obtain the necessary hands-on skills in the field.

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) in support of Environmental Impact and Site Assessment with an emphasis on ecosystems impacted by the mining industry
- Opportunities throughout the year to earn certifications related to the environmental field (e.g., Green Check GPS, Ontario Benthos Biomonitoring Network)
- Prepares you to write the Water Operator-in-Training (OIT) exam
- 1 year – 3 semesters
- 4-week placement in semester three to provide hands-on work experience in the field
- Program housed in the LEED Gold certified Glencore Centre for Innovation

4D Learning Opportunities

Applied research projects – Students have the opportunity to apply to be part of paid applied research teams to work on new product development alongside industry representatives and Cambrian faculty.

Quick Links

How to Apply (<http://cambriancollege.ca/apply/>)

Environmental Studies (<http://cambriancollege.ca/field-of-study/environmental-studies/>)

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).

APPLY NOW! (<https://www.ontariocolleges.ca/en/apply-now/>)

Program Delivery

2022-2023

This program will be delivered in the following terms:

Fall Term Start

1. SEMESTER 1 Fall 2022
2. SEMESTER 2 Winter 2023
3. SEMESTER 3 Spring 2023

For specific term start/end dates and other key dates/deadlines, please see the Academic Schedule (<http://cambriancollege.ca/apply/how-to-apply/academic-schedule/>) on our website.

Program of Study for 2022-23 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	3
Credits		21
Semester 2		
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		
EMI 7500	Work Placement	4
Credits		4
Total Credits		46

¹ Course with Lab component.

Fees

Tuition and Ancillary Fees

Please see our fees page (<http://cambriancollege.ca/fees/>) for the breakdown of tuition and mandatory ancillary fees by program and semester for both domestic and international students.

Books & Supplies

The cost of books and supplies for Year 1 is approximately \$500. Voluntary student certifications, such as Green Check, may have additional fees. This is the best information available at the time of publishing to the website and is subject to change.

Graduate Options

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)

College/University Degree Opportunities

Graduates from this program may continue their studies at college/university and may receive credit for their prior College education.

Refer to College/University Agreements (<http://www.cambriancollege.ca/agreements/>) for further information.

Contacts

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