

ENVIRONMENTAL MONITORING & IMPACT ASSESSMENT (EMPD)

Ontario College Graduate Certificate | 3 semesters | Barrydowne

You will gain the skills and knowledge to practice environmental and ecological monitoring, along with the ability to promote ecosystem sustainability on the watershed, atmospheric, and landscape scales.

Course content is shaped by social needs, industry expectations, and regulatory requirements. You will learn about environmental impact assessment methods, remediation technologies, monitoring programs, and environmental laws and regulations, including their application across industries and organizations involved in various areas of the environmental sector.

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

Program Highlights

- 1 year – 3 semesters
- Placement in semester three
- Program housed in the LEED Gold certified Glencore Centre for Innovation
- Unique focus on the air monitoring and remediation of air, land, and water ecosystems impacted by the mining industry
- Opportunities throughout the year to earn certifications related to the environmental field (e.g. Green Check GPS certification, Ontario Benthos Biomonitoring Network training)
- Prepares you to write the Operator-in-Training exam

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

Graduate of a recognized two-, three-, or four-year postsecondary program in a relevant discipline (Biology, Chemistry, Earth/Environmental Science/Studies, Geology, Geography, Civil Engineering, Mining Engineering, Chemical Engineering).

APPLY NOW! (<http://ontariocolleges.ca/apply>)

Program Delivery

2018-2019

This program will be delivered in the following terms:

Fall Term Start

1. **SEMESTER 1** Fall 2018

2. **SEMESTER 2** Winter 2019

3. **SEMESTER 3** Spring 2019

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

| Semester 1 | | Credits |
|----------------|------------------------------------|---------|
| EMI 7100 | Air Quality Assessment | 3 |
| EMI 7105 | Hydrology Water Quality Assess | 3 |
| EMI 7125 | Experiment Design Data Analysis | 3 |
| EMI 7210 | Industrial Impact/Mine Reclamation | 3 |
| EMI 7235 | Ecological Monitoring | 3 |
| EMI 7205 | Water Remediation Techniques | 3 |
| Term Credits: | | 18 |
| Semester 2 | | Credits |
| EMI 7120 | GIS Applications | 3 |
| EMI 7130 | Technical Writing | 2 |
| EMI 7200 | Environmental Impact Assess Model | 3 |
| EMI 7215 | Environmental Physiology | 3 |
| EMI 7225 | Air Pollution Abatement | 3 |
| ECO 1002 | | 4 |
| EMI 7220 | Solid Waste Management | 3 |
| Term Credits: | | 21 |
| Semester 3 | | Credits |
| EMI 7300 | Environmental Sampling Analysis | 8 |
| Term Credits: | | 8 |
| Total Credits: | | 47 |

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. 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 and Climate Change, Ministry of Natural Resources and Forestry, Ministry of 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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