

ENVIRONMENTAL TECHNICIAN (EVTN)

Passionate about climate change, water conservation and sustainability? Take action!

Turn your passion for the environment into a career that protects and restores our natural surroundings. Gain the technical skills and practical field experience to identify, measure, and record environmental variables within the air, water, soil, and living organisms. You'll use state-of-the-art equipment to evaluate and monitor contaminated ecosystems. You'll develop your technical writing skills to analyze, interpret, and evaluate field data while building your knowledge of environmental regulations and policies.

With a focus on monitoring industrial activities, you'll explore air quality issues, land restoration, and water conservation, preparing you for careers in any industry that needs to comply with environmental regulations.

Program highlights

- Analyze, interpret, and evaluate air, water, soil, and ecological field data
- Develop your technical writing skills
- Earn National Green Check certification
- Real-world experience during a 4-week internship
- Prepare to write the Ministry's Operator-in-Training (OIT) certification test for water treatment and distribution

Program of study for 2024-25 Academic Year

Students are required to successfully complete an online Lab Safety course (in Moodle) when starting their program at Cambrian. This course must be completed prior to entering the labs (as identified in the table below) in the Schools of Skills Training, Engineering Technology and Environmental Studies.

Semester 1		Credits
ECO 1000	Principles of Ecology ¹	3
ENV 1007	Biodiversity Fundamentals ¹	3
ENV 1008	Water Properties and Monitoring ¹	3
CMP 1011	Computer Applications	3
MTH 1003	Math I	3
CHM 1005	Chemistry Fundamentals ¹	3
ENG 1002	College Communications	3
Credits		21
Semester 2		Credits
ENV 1013	Principles of Natural Resources Management	3
ENV 1015	Environmental Microbiology & Toxicology ¹	3
ENV 1018	Data Management	4
INT 1009	Intro to Instrumentation ¹	4
TEC 1000	Technical Reporting	2
One General Education Course. ²		3
Credits		19

Semester 3

ENV 1009	Air Properties and Monitoring ¹	3
ENV 1011	Soil Science ¹	3
CAD 1100	Computer-Aided Drafting I	2
CHM 1012	Environmental Chemistry ¹	3
ECO 1002	Solid Waste Management	3
WTR 1000	Water Remediation Techniques	3
One General Education course. ²		3
Credits		20

Semester 4

GIS 1000	GIS Applications	3
ECO 1001	Ecosystem Restoration ¹	3
ENV 1028	Advanced Air Monitoring ¹	3
ENV 1126	Industrial Env Applications	3
WHS 1000	Environmental Workplace Safety	3
One General Education Course. ²		3
Credits		18

Semester 5

ENV 1019	Field Placement	4
Credits		4
Total Credits		82

¹ Course with Lab Component.

² For more information regarding General Education courses, click here (<https://cambriancollege.ca/general-electives/>).

Admission requirements

For graduates of the new curriculum (OSS): Ontario Secondary School Diploma (30 credits) or equivalent or mature student status, including:

- Any grade 12 English (C) or (U)
- Any grade 11 mathematics (C), (U), or (M)

Additional admission requirements

Recommendations

- Any grade 11 chemistry (U) or grade 12 chemistry (U) or (C) or any grade 11 biology (U) or (C) or grade 12 biology (U)

Program delivery

2024-2025

Fall term start

SEMESTER 1: Fall 2024
 SEMESTER 2: Winter 2025
 SEMESTER 3: Fall 2025
 SEMESTER 4: Winter 2026
 SEMESTER 5: Spring 2026

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 can work in a variety of industrial, governmental, municipal, and private consulting organizations as:

- Environmental monitoring technicians
- Natural resource technicians
- Environmental consultants
- Environmental laboratory technicians
- Field research assistants

Contacts

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INTERNATIONAL ADMISSIONS

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