



CREDENTIAL	PROGRAM CODE	AREA OF INTEREST	LOCATION	DURATION
Ontario College Diploma	Fall: O387	Natural Resources	Thunder Bay	2 -year

## Overview

Are you interested in learning how to responsibly develop our resource-based economy while protecting our forests, waterways, and land?

Through Confederation College's Environmental Technician - Water Resource Management two-year diploma program, you will learn to effectively manage natural and man-made environments. This program will explore environmental issues and provide hands-on tools for assessing, protecting and restoring ecosystems. Best of all, you'll learn in one of the greatest natural labs available: the Boreal Forest, a rich and diverse forest ecosystem that stretches around the northern hemisphere. Courses cover a wide variety of related topics including plant identification, natural resource measurements, soils & geomorphology, ecology, waste management, ground water, surface water and water & waste water treatment.



### Top Highlights

- Courses developed in consultation with industry and government familiar with northern Ontario and based on current cutting-edge practices
- Program includes two optional co-op placements after the second and fourth semesters
- Balance of class work, field study and placements for a well-rounded education
- Ontario's Entry-Level Drinking Water Operator Certificate possible, upon graduation
- Opportunity to write Operator-in-Training certificates (OITS) for:
  - Water treatment
  - Water distribution or distribution supply
  - Wastewater treatment
  - Wastewater collection



### Employment Opportunities

Graduates pursue many different types of work in the Environmental sector. While there is a heavy emphasis on water resources in the program, you will also gain extensive experience working with terrestrial ecosystems and be introduced to the environmental aspect of industrial settings. Many graduates have found work with consulting firms that offer a wide variety of experiences, including the mining sector. Most students graduate with the Ontario Entry-Level Drinking Water Certification; many also obtain Operator-in-Training (OIT) certifications for water treatment, water distribution and supply, wastewater collection and wastewater treatment.



### Experiential Learning

Optional Co-op, Field Work



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# Environmental Technician - Water Resource Management

## Program Requirements

- Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels with Grade 12 English (C/U) Level.
- or successful completion of the Mature Student Assessment.
- or successful completion of the General Education Development Test (GED).
- or appropriate credits from the Academic and Career Entrance program (ACE).

## Other Courses Recommended

- Grade 11 or 12 College or University preparation Math, Chemistry & Biology or Physics

**Please Note: The Environmental Technician - Water Resource Management program starts with a two-week field school at the beginning of both of the fall semesters. Students must be prepared for long days outside during field school.**

The Environmental Technician - Water Resource Management program is clustered with the Forestry Technician: Ecosystem Management program. It is possible to complete both of these two-year diplomas in three years, if the co-op option is completed, either at the end of the first or second year of the program.

## Alternative Pathways

If you do not meet the entrance requirements, or if you want to earn some credits toward the Environmental Technician - Water Resource Management Diploma while exploring your career options in Technology, we encourage you to apply for the Pre-Technology-Trades program.

## Articulation Agreements

Confederation College has agreements in place that permit credits earned throughout this program to be transferred to programs at other colleges and universities.

Visit: [confederationcollege.ca/articulation-agreements](http://confederationcollege.ca/articulation-agreements) for more information.

## First Semester

EI 325 Introduction to Environmental Chemistry  
NR 100 Natural Resource Measurements  
NR 110 Tree and Shrub Identification  
NR 130 Soils and Geomorphology  
NR 180 Fall Field School  
MA 115 Applied Math for Technology I  
MC 165 Microsoft Office  
CS 050 College Writing

## Second Semester

EI 425 Advanced Chemistry  
NR 215 Plant Biology  
NR 216 Introductory Ecology  
NR 213 Geographical Information Systems I  
MA 215 Applied Math for Technology II  
GE General Elective  
GE 059 People and the Forest

## Optional CO-OP Following Second or Fourth Semester

EI 351 Environmental Technician - Water Resource Management Co-op Work Placement I  
EI 451 Environmental Technician - Water Resource Management Co-op Work Placement II

## Third Semester

EI 320 Fall Field School  
EI 321 Hydrogeology  
EI 323 Water Quality  
EI 326 Waste Management  
EI 423 Environmental Audits  
CE 130 Introductory Surveying  
GE 060 Supervisory Skills & Conflict Resolution

## Fourth Semester

EI 322 Hydrology & Hydraulics  
EI 421 Environmental Legislation  
EI 422 Ethical practice & Sustainable Project Development  
EI 424 Industrial Environmental Tech  
EI 426 Drinking Water Treatment & Distribution  
EI 427 Wastewater Collect. & Treatment  
NR 427 Introductory Statistics for Environmental Applications



**Have questions? Want to apply?**

Contact [recruitment@confederationcollege.ca](mailto:recruitment@confederationcollege.ca)

