

# Fleming College

## Part-time Ecosystem Management Technician (EPT)

Ontario College Diploma ( 4 semesters )

### START IN SEPTEMBER 2022

Classes begin:	September 06, 2022
Offered at:	Frost Campus
Program code:	EPT
Tuition:	Tuition is unavailable at this time

*A NEW part-time study option for students in our Ecosystem Management Technician program. Gain all the skills and knowledge needed to succeed and learn at a pace that works for you. Be a part of the solution - contribute to the health of ecosystems and minimize the negative impact we have on the environment.*

### Program Highlights:

Fleming's Part-time Ecosystem Management Technician program provides greater flexibility, allowing you to study on a part-time basis.

The program highlights a holistic approach to the management of human activity within ecosystems. We will prepare you for an exciting career that can take you where YOU want to go. You will study ecosystem composition, structure and function in wilderness, rural, and urban landscapes as well as acquire a broad range of technical skills.

Throughout this program, you will:

- » learn the principles of experimental design and research, and how to apply them to a project of your own
- » participate in the monitoring and assessment of aquatic and terrestrial habitats, conduct resource inventories and environmental sampling, and develop plans for the management of public and private landscapes
- » conduct field research in partnership with a variety of organizations and analyze data generated by this work
- » learn to use Geographic Information Systems (GIS) technology to analyze ecosystems at a variety of scales.

### WHY CHOOSE FLEMING

- » A part-time option for this program is unique in Ontario.
- » We offer small class sizes and provide state-of-the-art technology.
- » Dedicated, award-winning faculty provide a challenging and dynamic learning environment.
- » While you learn about ecosystem science and sustainable resources management, you will also develop essential, transferrable soft skills such as problem-solving, cultural awareness, and dispute resolution.

## Meet Our Faculty

- » Barbara Elliot
- » Michael Fraser
- » Cecilia Rulli, M.Sc, B.Ed.

## WORK EXPERIENCE

The Ecosystem Management Program provides the student with a two week (80 hour) mandatory field placement. This placement is designed to allow you to apply your skills, demonstrate your abilities and obtain valuable work experience that many employers are looking for.

The program has three organized placements – two placements in South Africa and one in Costa Rica, which enable students to gain a global perspective on conservation. Students who participate in these organized placement experiences are selected based on a rigorous screening process.

## INDIGENOUS PERSPECTIVES DESIGNATION

The Indigenous Perspectives Designation (IPD) is available to full- and part-time students in the program. To qualify for the IPD, students must take and successfully complete GNED49 - Introduction to Indigenous Studies and GNED128 - Indigenous Knowledges, along with at least four approved co-curricular Indigenous events or experiences. The student's transcript will indicate the IPD, a marketable designation in the employment sector.

## CAREER OPPORTUNITIES

As a Technician, you'll find work in careers such as:

- » resource management technician
- » urban forest management
- » geomatics technician
- » aquatic / terrestrial biologist
- » environmental education
- » land use planning
- » restoration technician
- » watershed technician
- » environmental consultant, and others.

## PHYSICAL REQUIREMENTS

As an Ecosystem Management student you will be required to:

- » Participate in field activities, sometimes in remote areas, including walking several kilometers over rough terrain, carrying heavy gear, and working in all weather conditions such as rain, deep snow and extreme temperatures.
- » Participate in activities that require reading, interpreting and creating maps using Geographic Positioning Systems and Geographic Information System software, topographic paper maps and aerial photographs.

## RELATED PROGRAMS

As a graduate of the Technician program, you may want to continue your education another year to attain the Technologist diploma. You are also eligible to take one of the post-graduate Geographic Information Systems (GIS) programs – Applications Specialist, or Cartographic Specialist – to enhance your skill set and career opportunities. Alternatively, you can obtain a dual diploma by taking another of our School's Technician programs. Students typically complete the second diploma with just two more semesters of full-time study.

## ADDITIONAL COSTS

Plan to spend about \$1,450 over the course of your studies for the cost of books, supplies and field camps.

## MINIMUM ADMISSION REQUIREMENTS

Students applying to Ecosystem Management Technician must meet the following requirements:

- » OSSD including Gr 12 C English and Gr 12 C Math. OSSD with majority of courses at College (C ) or Open (O) unless otherwise stated. Grade 12 C courses will be accepted where Gr 11 C course requirements are listed. Where College level courses are listed, U and M courses will be accepted.

## MATURE STUDENTS

If you are 19 years of age or older before classes start, and you do not possess an OSSD, you can write the Canadian Adult Achievement Test to assess your eligibility for admission. Additional testing or academic upgrading may be necessary to meet specific course requirements for this program.

## TECHNOLOGY REQUIREMENTS

Windows (ideal) or Mac computer. Information about hardware requirements can be found on the ArcGIS Desktop system requirements page.

## TUITION DETAIL

Tuition and ancillary fees are subject to change without notice. The fees presented below reflect Fall start programs only for the current academic year. For details about the fee differences for other program start dates please refer to the Tuition Details chart below.

[View complete tuition details](#)

## Courses and Descriptions

## Semester 1

Applied Mathematics in Natural Resource Sciences	MATH 63	Hours: 45
Communications I	COMM 201	Hours: 45
Earth and Atmosphere	GEOL 83	Hours: 45
Ecosystem Skills	ECOS 13	Hours: 60

## Semester 2

Ecology and Environment	ENVR 20	Hours: 60
Ecology: Concepts and Linkages	ECOS 14	Hours: 60
Fundamentals of Geomatics	GEOM 163	Hours: 45
Trees and Shrubs Of Ontario	FSTY 50	Hours: 60

## Semester 3

Introduction to Vector GIS	GEOM 34	Hours: 45
Natural Resources Law	LAWS 56	Hours: 30
Statistics	MATH 25	Hours: 45
Terrestrial Ecosystems	ECOS 11	Hours: 45
Introduction to Indigenous Studies	GNED 49	Hours: 45
General Education Elective	GENED	Hours: 45

## Semester 4

Communications II	COMM 202	Hours: 45
EM-Geomatics	GEOM 16	Hours: 45
Forest Measurement	FSTY 73	Hours: 45
Soils and Ecosystems	NATR 129	Hours: 45
Wildlife Observation Skills	FIWI 41	Hours: 45

## Semester 5

Applied Human Relations I	ORGB 22	Hours: 30
Aquatic Ecosystems	ECOS 3	Hours: 60
Field Camp	APST 22	Hours: 40
Restoration Ecology	ECOS 10	Hours: 45
General Education Elective	GENED	Hours: 45

## Semester 6

Applied Human Relations II	ORGB 23	Hours: 21
Career Advancement Techniques	NATR 11	Hours: 45
Ecosystem Monitoring and Assessment	ECOS 7	Hours: 45
Field Placement EMT	FLPL 108	Hours: 80
Human and Wildlife Ecology	FIWI 23	Hours: 45
Tree Sciences and Practices	FSTY 60	Hours: 45

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