

ENVIRONMENTAL LANDSCAPE MANAGEMENT (EVL)

About the Program

Seneca's King Campus is part of a provincially significant wetland complex and is a valued source of headwaters to the Humber Rivers watershed, which is part of the Canadian Heritage Rivers System. In this unique two-year diploma program, the majority of your outdoor training will take place on this land. You will study ecology, traditional types of landscaping, practical skills and receive an overview of the ecosystem allowing you to understand the impact humans have on the environment and how to protect and restore its natural landscapes.

The demand for environmental landscape management is growing within private and public organizations, therefore employers are in search of graduates who are committed, skilled and knowledgeable in the profession.

Credential Awarded

Ontario College Diploma

Duration

4 Semesters (2 Years)

Starts

September

Program and Course Delivery

This program is offered in Seneca's hybrid delivery format. Some coursework is online and some must be completed in person. Students will need to come on campus to complete in-person learning requirements.

Skills

Throughout this program you will develop the following skills:

- A blend of theoretical and applied practical skills valued in the environmental landscaping field
- Knowledge of the latest landscaping techniques, including fusion landscaping approaches
- Computer aided design techniques
- Business and marketing skills
- An advanced awareness of ecology and the interactions between humans, plants and the environment.

Work Experience

Optional Co-op

Students meeting all academic requirements may have the opportunity to complete an optional co-op work term(s) in a formal work environment. In most cases the work term(s) is a full-time paid position completed between two academic semesters. In programs with limited co-op opportunities, additional academic requirements and a passing grade on a communication assessment may be required for eligibility. Eligibility for participation does not guarantee a work position will be secured. Additional

fees are required for those participating in the optional co-op stream regardless of success in securing a work position.

Review eligibility requirements for work-integrated learning (<https://www.senecapolytechnic.ca/employers/seneca-works/work-integrated-learning/eligibility.html>)

Your Career

When you graduate from this program, these are the types of career options you can explore:

- Specialized and general landscape companies
- Horticultural nursery and greenhouse operations
- Municipal parks departments and conservation authorities
- Golf courses, tourists resorts, private and public parks
- Self-employed contracting firms

Affiliations/Associations

- Conservation Authorities of Ontario
- Landscape Ontario Horticultural Trades Association
- Municipal parks departments
- Oak Ridges Moraine Foundation
- Ontario Cooperative Education Association
- Canadian Co-operative Association
- Ontario Parks Association
- Private sector employers throughout Ontario
- Tallgrass Ontario

Program of Study

Course Code	Course Name	Weekly Hours
Semester 1		
COM101 or COM111	Communicating Across Contexts Communicating Across Contexts (Enriched)	3
EVL134	Machinery Operation and Maintenance	2
EVL168	Turf Maintenance	3
EVL175	Horticulture I	3
EVL185	Foundations of Field Ecology	3
plus: General Education Course (1)		3
Semester 2		
EVL205	Environmental Services Management	3
EVL264	Greenhouse Operations	5
EVL265	Horticulture II	4
EVL285	Terrestrial Ecosystems	3
WTP100	Work Term Preparation *	1
plus: General Education Course (1)		3
Work-Integrated Learning Term		
EVL331	Environmental Landscape Management, Co-op *	30

Semester 3

EVL165	Arboriculture	4
EVL355	Introduction to Computer-Aided Design	4
EVL375	Business and Project Management for Environmental Professionals	3
EVL384	Landscape Construction	5
EVL385	Aquatic Ecosystems	3
EVL390	Professional Development and Portfolio	2

Semester 4

EVL454	Technologies of Landscape Design	2
EVL455	Principles of Sustainable Landscape Design	2
EVL473	Integrated Pest Management	3
EVL475	Business Management for Environmental Professionals II	2
EVL486	Urban Ecology	3
EVL496	Natural Heritage Monitoring and Assessment	3
plus: General Education Course (1)		3

* Work-Integrated Learning option only

Program Learning Outcomes

This Seneca program has been validated by the Credential Validation Service as an Ontario College Credential as required by the Ministry of Colleges and Universities.

As a graduate, you will be prepared to reliably demonstrate the ability to:

- Operate small engine machinery safely and maintain it for maximum efficiency.
- Carry out tree maintenance (such as pruning and climbing), select and use trees in a landscape design, and develop tree identification skills.
- Analyze landscape situations, recommend corrective construction methods and installation procedures, and effectively perform hard landscape installations.
- Establish and maintain a healthy woodlot, utilizing current forestry techniques. Be knowledgeable about various grasses, their selection in terms of usage, and the maintenance techniques necessary to establish healthy turf vegetation.
- Identify, select, and use plant and shrub materials in landscape designs.
- To be knowledgeable about the complex factors which interact to influence the distribution, growth and decline of free roaming species, and the fish and wildlife management techniques which allow animals to co-exist closely with humans.
- Be knowledgeable about basic biology and life cycles of the main classes of vertebrates, the keys to recognition of some of the more common Ontario species, and the elements of nature interpretation in a park setting.
- Perform duties involved in greenhouse operations including plan propagation and the creation of interior landscapes.
- Be knowledgeable about chemical toxicology and the correct use of control chemicals used in parks, golf courses and private operations

in order to carry out pesticide and weed control operations safely and according to Ontario regulations.

- Be knowledgeable about the systems of park services, organizations and agencies in this county, and of the relationships between the public and private sectors of this industry.
- Appreciate the importance and purpose of recreation program and ancillary services in parks, and develop/organize the same.
- To be knowledgeable about park planning and park legislation.
- To develop a Park Maintenance Plan for open spaces and for recreational facilities.
- Be knowledgeable about various leadership styles and public relation skills appropriate to the parks and recreation industry.
- Be knowledgeable about and be able to explain environmental issues facing Canadians, and the approaches being used to deal with the problem.
- Be familiar with basic microcomputer concepts and operations, and their application in the administration of parks and recreational facilities.
- Communicate effectively in speech and writing, and prepare reports.
- Identify sources of legislation related to all aspects of this industry.
- Be knowledgeable about accounting concepts and principles, private recreation business finance, and the budgeting process.
- Perform business functions common to the private sector of this industry.
- Perform the various functions common to the private sector of this industry.
- Identify the areas of this industry in which the graduate wishes to gain employment, develop a job search plan, and effectively present themselves for employment.

Admission Requirements

- Ontario Secondary School Diploma (OSSD), or equivalent, or a mature applicant (<https://www.senecapolytechnic.ca/registrar/canadian-applicants/admission-requirements/mature-applicants.html>)
- English: Grade 12 C or U, or equivalent course

Canadian citizens and permanent residents may meet English requirements for this program through successful Seneca pre-admission testing. (<https://www.senecapolytechnic.ca/registrar/canadian-applicants/admission-requirements/mature-applicants.html>)

Recommended upgrading for applicants who do not meet academic subject requirements (<https://www.senecapolytechnic.ca/registrar/canadian-applicants/admission-requirements/upgrading-options.html>).

Notes

The practical skills training and optional co-op work components in this program involve physically challenging work. The outdoor environment and some program activities may offer an element of risk. To succeed, you must be capable of participating in strenuous physical activity.

If you have concerns or questions regarding the nature of this work, please contact the program co-ordinator.

International Student Information

International admissions requirements vary by program and in addition to English requirements (<https://www.senecapolytechnic.ca/international/>)

apply/how-to-apply/admission-requirements/english-requirements.html), programs may require credits in mathematics, biology, and chemistry at a level equivalent to Ontario's curriculum, or a postsecondary degree or diploma, equivalent to an Ontario university or college. Program-specific pre-requisite courses and credentials are listed with the admission requirements on each program page. To review the academic requirements please visit: Academic Requirements - Seneca, Toronto, Canada (senecapolytechnic.ca) (<https://www.senecapolytechnic.ca/international/apply/how-to-apply/admission-requirements/academic-requirements.html>).

Pathways

As a leader in academic pathways, we offer a range of options that will allow you to take your credential further in another Seneca program or a program at a partner institution.

To learn more about your eligibility, visit the Academic Pathways (<https://www.senecapolytechnic.ca/pathways.html>) web page.

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