Horticulture Technician
A Two-Year Ontario College Co-operative Education Endorsed Diploma
1001 Fanshawe College Blvd. – Room D1063
London, ON N5Y 5R6
Phone: 519-452-4294    Fax: 519-452-4572    coop@fanshawec.ca

The Program
Horticulture Technician students are trained to design, build and maintain landscaped, gardens and interiorscapes for residential, commercial, institutional and recreational areas.

The Content
Courses include plant identification, arboriculture, landscape materials, field construction, equipment maintenance, business management, landscape design and plant production.

The Outcomes
Our graduates are trained to apply the principles of plant science along with the practical skills of construction and maintenance to landscape projects; to avoid environmental damage and promote healthy ecosystems.

Sample Co-op Progression Chart:

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<td>Academic Term 1</td>
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<td>Work Term 1</td>
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Learning Outcomes
Year One:
- Develop plans/drawings from scanned surveys using Dynascape and hand drafting
- Calculate treatment areas and product requirements relating to pesticide/biological/fertilizer
- Recognize workplace hazards and take appropriate action to ensure a safe work environment
- Collect, prepare and submit soil samples for testing
- Identify woody evergreen plants used in the landscaping industry and that are hardy in Ontario
- Set up, maintain and perform minor repairs to outdoor power equipment used in the landscaping industry
- Identify and critically assess woody plant species in the landscape

Year Two:
- Identify pests and apply controls, utilizing Integrated Pest Management (IPM)
- Identify herbaceous and tropical plants including annuals
- Identify common turf pests, weeds, diseases and methods of control for each, develop a turf management program
- Conduct greenhouse activities including transplanting, seeding and watering
- Perform basic tree maintenance techniques consistent with current arboricultural practices
- Prepare a planting site, install plant materials
- Program, repair and winterize irrigation systems
- Perform basic landscape construction
- Interpret simple working drawings in order to layout a site for the construction
- Prepare a site for the installation of various types of paving and retaining wall materials
- Install precast paving materials (interlocking concrete pavers) on an aggregate base
- Build retaining walls and planters using precast concrete systems
- Install natural stone paving on an aggregate base
### Course Outline

**Level 1** – Take all of the following Mandatory Courses

- WRIT-1036 Reason & Writing I – Art & Design
- MATH-1159 Trade Calculations for Hort Tech
- DESG-1061 Garden, Plan Interpretation & Surv
- HORT-1011 Horticulture I
- LAND-1004 Soils for Horticulture
- WOOD-1011 Woody Deciduous Plant Identification
- HORT-1032 Arboriculture I
- COOP-1020 Co-op Ed Employment Prep

**Level 2** – Take all of the following Mandatory Courses

- Gen Ed – Take a 3 credit Gen. Ed. elective course
- COMM-3023 Comm for Designers, Planners, Techs
- HORT-1029 The History of Gardens
- MATS-1018 Landscape Materials
- HORT-1053 Plant Health Care
- HORT-1026 Hort II – Greenhouse Management
- MOTP-1001 Equipment Maintenance
- MTNC-1013 Landscape Equip Oper & Wrkpl Safety
- WOOD-1019 Woody Evergreen Plant Identification

**Level 3** – Take all of the following Mandatory Courses

- Gen Ed – Take a 3 credit Gen. Ed. elective course
- MTNC-1017 Landscape & Garden Maintenance
- HORT-3014 Arboriculture II
- CONS-1039 Landscape Field Construction I
- BUSI-1067 This Business of Landscaping
- HORT-1031 Greenhouse Plant Identification
- WOOD-3019 Herbaceous Plant Identification
- COMP-1013 Dynascape for Garden Design

**Level 4** – Take all of the following Mandatory Courses

- CONS-3017 Landscape Field Construction II
- ENVR-3005 Integrated Pest Management
- HORT-3015 Greenhouse Plant Production II
- HORT-3007 Annual & Tropical Plan ID
- HORT-3008 Turf Management
- MTNC-3004 Landscape & Garden Main

**Program Requirements:**
- Take two 3-credit General Education Elective Courses
- Program Residency

Students must complete a minimum of 20 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program.

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### Why Should You Hire a Co-operative Education Student?

Many employers feel today’s graduates have no concept of the “real” world of work; we are providing this experience in Co-operative Education. Any job that gives the student related background in your business would be suitable.

Eligible employers can claim a tax credit for each qualifying work placement for up to $3000.

Co-operative Education students are ultimately looking ahead to careers in businesses such as yours. For this reason they are not expecting to simply put in time on the job, but are eager to get involved and make a worthwhile contribution. Participation in co-operative education also gives the employer the opportunity to try out a student’s capabilities without obligation or commitment to permanent employment.

This work oriented educational system integrates classroom study and paid, on-the-job work experience, by alternating periods in College with periods of employment by cooperating organizations. The work terms are spaced out through the academic program and students will be at various academic levels in successive work terms. The working experience will ideally increase in difficulty and responsibility as the student progresses academically. However, the College realizes it is often difficult in practice to do this.

It is essential that the work experience be a normal one; that the student be treated like a regular company employee so that a realistic picture of the working environment in that field may be obtained. Perhaps most important is what students gain from the working experience: an attitude for success and the ability to get along with co-workers at all levels.

**fanshawec.ca/coop**