

# ASSOCIATE DIPLOMA IN HORTICULTURE

The nursery, landscaping, turf and floriculture segments of the horticulture industry areas of sustained growth and development in Ontario and Canada. The Associate Diploma in Horticulture program provides a basic curriculum in ornamental horticulture and an opportunity to take specialized courses in various components of the industry. Practical experience and training complements the more formal material presented in lectures and provides an opportunity to acquire the practical skills required in greenhouse and landscaping firms.

The Diploma in Horticulture program prepares students for a variety of career opportunities in landscaping, nursery and greenhouse firms, municipal parks, garden centres and private businesses.

## Requirements

Code	Title	Credits
<b>Semester 1 - Fall</b>		
DAGR*1090	Communications & Software Applications I	0.50
DAGR*1200	Applied Plant Science	0.50
DAGR*1600	Applied Mathematics	0.50
DHRT*1000	Landscape Management	0.50
DHRT*1050	Plant Identification I	0.50
DHRT*2000	Greenhouse Management	0.50
<b>Semester 2 - Winter</b>		
DAGR*2090	Communications & Software Applications II	0.50
DHRT*2090	Introduction to Landscape Construction	0.50
DHRT*2200	Plant Propagation	0.50
DHRT*2230	Soil and Water Use in Agroecosystems	0.50
1.00 electives or restricted electives		1.00
<b>Semester 3 - Fall</b>		
DAGR*1070	Introduction to Business Management	0.50
DHRT*3050	Plant Identification II	0.50
DHRT*3170	Horticultural Weed Science	0.50
DHRT*4050	Certification and Safety	0.50
1.00 electives or restricted electives		1.00
<b>Semester 4 - Winter</b>		
DAGR*2020	Financial Management	0.50
DAGR*4600	Human Resource Management	0.50
2.00 electives or restricted electives		2.00

## Restricted Electives

Horticulture students must take at least 3.00 elective credits from the following five lists:

Some restricted elective courses require prerequisites. Students should check the course descriptions for prerequisite requirements and consult with their program advisor when planning their program

Code	Title	Credits
<b>1. Select at least 0.50 credits from the following:</b>		
DAGR*4610	Business Project	0.50
DAGR*4650	Farm Analysis Project	0.50

<b>2. Select at least 0.50 credits from the following:</b>		
DHRT*4000	Ornamental Plant Protection	0.50
DHRT*4200	Greenhouse Vegetable Integrated Pest Management	0.50

<b>3. Greenhouse Production</b>		
DHRT*2160	Greenhouse Control Systems	0.50
DHRT*3180	Greenhouse Structures and Engineering	0.50
DHRT*3300	Greenhouse Ornamental Production	0.50
DHRT*4190	Greenhouse Vegetable Production	0.50
DHRT*4290	Advanced Greenhouse Management	0.50

<b>4. Landscape Construction &amp; Design</b>		
DHRT*2100	Landscape Design	0.50
DHRT*3120	Applied Landscape Construction	0.50
DHRT*4150	Landscape Construction Project	0.50

<b>5. General Horticulture</b>		
DAGR*2220	Viticulture and Oenology	0.50
DAGR*3080	Marketing	0.50
DHRT*2250	Horticultural Equipment Management	0.50
DHRT*3150	Nursery Management	0.50
DHRT*4300	Arboriculture	0.50
DHRT*4320	Cannabis Production	0.50

## Elective Experiential Learning Courses

Students may take a maximum of 1.00 credits from the following experiential learning courses as electives.

Code	Title	Credits
DAGR*2180	Belize Study Tour	0.50
DHRT*3270	European Landscaped Garden Tour	0.50
DHRT*3150	Nursery Management	0.50
DHRT*3910	Special Study Project	0.50

## Co-op Requirements

The horticulture industry is an exciting sector with many employment opportunities for people who enjoy working outside, are interested in plants and care about the environment. The Associate Diploma in Horticulture Co-op program offers students the chance to experience working in the industry while accomplishing their studies. The program ensures students develop relevant skills through practical labs and hands-on experiences. Graduates are prepared for a variety of careers in greenhouses, landscaping, nurseries, and agribusiness. This program gives you the chance to broaden your knowledge by taking specialized courses including arboriculture, cannabis production, greenhouse management, viticulture and horticultural pest management. Students will learn to function in a professional environment, work in teams, solve problems, and be knowledgeable about a wide variety of plants and their growing requirements.

The co-op option integrates academic learning with a period of paid workplace learning in a field relevant to the student's academic and personal/professional goals. The co-op work term is scheduled after the second academic semester, providing a foundation on which to build the work experience. The work term is developed in collaboration with the employer and is approved by the institution as a suitable learning environment. Students participate in a competitive employment process to secure an approved co-op work term that is relevant to the student's area of study. COOP\*1120 Introduction to Co-operative Education, a

mandatory, non-credit course, is a prerequisite for the co-op work term and prepares the student for the employment process. The student's performance in the workplace is supervised and evaluated by the student's employer. The student's progress during the work term is also monitored by the Experiential Learning Hub (EL Hub), which may include a site visit during the co-op work term and a review of the student's official learning goals. A work report is required for the co-op work term and is graded by an assigned Co-op Faculty Advisor. All evaluation grades will appear on the student's official transcript.

Students must follow the academic work schedule as outlined below (also found on the Co-operative Education website: <https://www.recruitguelph.ca/cecs/>).

## Co-op Work Term Schedule

Year	Fall	Winter	Summer
1	Academic Semester 1 COOP*1120	Academic Semester 2	COOP*1020 Work Term 1
2	Academic Semester 3	Academic Semester 4	

Please refer to the Co-operative Education program policy with respect to work term performance grading, work term report grading and program completion requirements.

For additional program information students should consult with their Co-op Co-ordinator and Co-op Faculty Advisor, listed on the Co-operative Education web site.

## Credit Summary

This Diploma program will require the completion of 12.50 credits:

Code	Title	Credits
Required Core Courses		8.00
Electives		4.00
Co-op Work Terms		0.50
<b>Total Credits</b>		<b>12.5</b>

The recommended program sequence is outlined below.

## Required Courses

Code	Title	Credits
<b>Semester 1 - Fall</b>		
COOP*1120	Introduction to Co-operative Education	0.00
DAGR*1090	Communications & Software Applications I	0.50
DAGR*1200	Applied Plant Science	0.50
DAGR*1600	Applied Mathematics	0.50
DHRT*1000	Landscape Management	0.50
DHRT*1050	Plant Identification I	0.50
DHRT*2000	Greenhouse Management	0.50
<b>Semester 2 - Winter</b>		
DAGR*2090	Communications & Software Applications II	0.50
DHRT*2090	Introduction to Landscape Construction	0.50
DHRT*2200	Plant Propagation	0.50
DHRT*2230	Soil and Water Use in Agroecosystems	0.50
1.00 electives or restricted electives		1.00
<b>Summer</b>		

COOP*1020	Co-op Work Term I	0.50
-----------	-------------------	------

### Semester 3 - Fall

DAGR*1070	Introduction to Business Management	0.50
DHRT*3050	Plant Identification II	0.50
DHRT*3170	Horticultural Weed Science	0.50
DHRT*4050	Certification and Safety	0.50
1.00 electives or restricted electives		1.00

### Semester 4 - Winter

DAGR*2020	Financial Management	0.50
DAGR*4600	Human Resource Management	0.50
2.00 electives or restricted electives		2.00

## Restricted Electives

Horticulture students must take at least 3.00 elective credits from the following five lists:

Some restricted elective courses require prerequisites. Students should check the course descriptions for prerequisite requirements and consult with their program advisor when planning their program

Code	Title	Credits
------	-------	---------

### 1. Select at least 0.50 credits from the following:

DAGR*4610	Business Project	0.50
DAGR*4650	Farm Analysis Project	0.50

### 2. Select at least 0.50 credits from the following:

DHRT*4000	Ornamental Plant Protection	0.50
DHRT*4200	Greenhouse Vegetable Integrated Pest Management	0.50

### 3. Greenhouse Production

DHRT*2160	Greenhouse Control Systems	0.50
DHRT*3180	Greenhouse Structures and Engineering	0.50
DHRT*3300	Greenhouse Ornamental Production	0.50
DHRT*4190	Greenhouse Vegetable Production	0.50
DHRT*4290	Advanced Greenhouse Management	0.50

### 4. Landscape Construction & Design

DHRT*2100	Landscape Design	0.50
DHRT*3120	Applied Landscape Construction	0.50
DHRT*4150	Landscape Construction Project	0.50

### 5. General Horticulture

DAGR*2220	Viticulture and Oenology	0.50
DAGR*3080	Marketing	0.50
DHRT*2250	Horticultural Equipment Management	0.50
DHRT*3150	Nursery Management	0.50
DHRT*4300	Arboriculture	0.50
DHRT*4320	Cannabis Production	0.50

## Elective Experiential Learning Courses

Students may take a maximum of 1.00 credits from the following experiential learning courses as electives.

Code	Title	Credits
DAGR*2180	Belize Study Tour	0.50
DHRT*3270	European Landscaped Garden Tour	0.50

DHRT*3150	Nursery Management	0.50
DHRT*3910	Special Study Project	0.50