



ORIGINAL COURSE IMPLEMENTATION DATE: January 1987  
 REVISED COURSE IMPLEMENTATION DATE: September 2026  
 COURSE TO BE REVIEWED (six years after UEC approval): April 2032  
 Course outline form version: 29/08/2024

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

<b>Course Code and Number:</b> AGRI 124	<b>Number of Credits:</b> 3 <a href="#">Course credit policy (105)</a>										
<b>Course Full Title:</b> Introduction to Horticulture <b>Course Short Title:</b> Intro to Horticulture											
<b>Faculty:</b> Faculty of Science	<b>Department/School:</b> Agriculture Technology										
<b>Calendar Description:</b> Introduces the major divisions and allied sectors of the horticulture industry, along with the systems used to classify and name horticultural plants. Students learn the fundamentals of biological nomenclature as well as core concepts in plant anatomy, photosynthesis, respiration, water movement, and the environmental factors that influence plant growth.  Note: Field trips during class time may be required.											
<b>Prerequisites (or NONE):</b>	None.										
<b>Corequisites (if applicable, or NONE):</b>	None.										
<b>Pre/corequisites (if applicable, or NONE):</b>	None.										
<b>Antirequisite Courses</b> <i>(Cannot be taken for additional credit.)</i> Former course code/number: Cross-listed with: Equivalent course(s): <i>(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)</i>	<b>Course Details</b> Special Topics course: <b>No</b> <i>(If yes, the course will be offered under different letter designations representing different topics.)</i> Directed Study course: <b>No</b> <i>(See <a href="#">policy 207</a> for more information.)</i> Grading System: <b>Letter grades</b> Delivery Mode: <b>Face-to-face only</b> Expected frequency: <b>Annually</b> Maximum enrolment (for information only): <b>32</b>										
<b>Typical Structure of Instructional Hours</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 80%;">Lecture/seminar</td> <td style="width: 20%; text-align: center;">30</td> </tr> <tr> <td>Supervised laboratory hours (science lab)</td> <td style="text-align: center;">15</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td style="text-align: right;"><b>Total hours</b></td> <td style="text-align: center;"><b>45</b></td> </tr> </table>	Lecture/seminar	30	Supervised laboratory hours (science lab)	15					<b>Total hours</b>	<b>45</b>	<b>Prior Learning Assessment and Recognition (PLAR)</b> PLAR is available for this course.
Lecture/seminar	30										
Supervised laboratory hours (science lab)	15										
<b>Total hours</b>	<b>45</b>										
<b>Scheduled Laboratory Hours</b> Labs to be scheduled independent of lecture hours: <b>No</b>	<b>Transfer Credit</b> <i>(See <a href="#">bctransferguide.ca</a>.)</i> Transfer credit already exists: <b>Yes</b> Submit outline for (re)articulation: <b>No</b> <i>(If yes, fill in <a href="#">transfer credit form</a>.)</i>										
<b>Department approval</b>	<b>Date of meeting:</b> December 2, 2025										
<b>Faculty Council approval</b>	<b>Date of meeting:</b> January 9, 2026										
<b>Undergraduate Education Committee (UEC) approval</b>	<b>Date of meeting:</b> April 24, 2026										

**Learning Outcomes** *(These should contribute to students' ability to meet program outcomes and thus Institutional Learning Outcomes.)*

1. Utilize plant classification, nomenclature (binomial, common, and varietal), and when available, the Halq'eméylem name for plants used in the course.
2. Identify plant cell organelles and cell types.
3. Explain different plant tissues and their function.
4. Describe plant vegetative organs, their functions and modifications.
5. Analyze plant reproductive organs, and the process of pollination and fertilization.
6. Describe photosynthesis and factors affecting photosynthesis.
7. Analyze respiration and factors affecting respiration.
8. Describe transpiration of water and metabolites movement throughout plants.
9. Recognize the key plant nutrient groups and their role in plant growth and development.

**Recommended Evaluation Methods and Weighting** *(Evaluation should align to learning outcomes.)*

Quizzes/tests/midterm:	40%	Final exam:	20%	Assignments:	40%
	%		%		%

**Details:**

Assignments: internal plant structure (10%), factors impacting photosynthesis (15%), presentation: plant of interest (15%)

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Instructional Methods** *(Guest lecturers, presentations, online instruction, field trips, etc.)*

This course combines theory with lab activities to demonstrate concepts.

**Texts and Resource Materials** *(Include online resources and Indigenous knowledge sources. [Open Educational Resources](#) (OER) should be included whenever possible. If more space is required, use the [Supplemental Texts and Resource Materials form](#).)*

Type	Author or description	Title and publication/access details	Year
1. Textbook	McMahon, M.	Plant Science: Growth, Development, and Utilization of Cultivated Plants	2020
2.			
3.			
4.			
5.			

**Required Additional Supplies and Materials** *(Software, hardware, tools, specialized clothing, etc.)***Course Content and Topics**

- Each week 1-3 “plants of the week” are introduced to the class, including native plants and their contemporary and historical uses by Stó:lō people
- Classification, nomenclature, and Halq'eméylem naming of plants
- Plant cell organelles, and cell types
- Plant tissue and their function
- Vegetative organs and modifications
- Plant reproduction, pollination, and fertilization
- The leaf and photosynthesis
- Factors affecting photosynthesis
- Respiration, factors affecting respiration and storage
- Plant transpiration, water and transport in plants
- Plant nutrients and their functions in plants