

ORIGINAL COURSE IMPLEMENTATION DATE: REVISED COURSE IMPLEMENTATION DATE: COURSE TO BE REVIEWED (six years after UEC approval): Course outline form version: 09/08/2021

September 2009 January 2024 April 2029

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: AGRI 124		Number of Credits: 3 Course credit policy (105)						
Course Full Title: Introduction to Horticulture								
Course Short Title: Introduction to Horticulture								
Faculty: Faculty of Science		Department (or program if no department): Agriculture Technology						
Calendar Description:								
Introduction to plant anatomy and physiology; physical, biological, and chemical (hormones) control of plant growth; and postharvest handling. Overview of plant taxonomy and biological nomenclature. Develops knowledge base needed to continue studying major horticultural crop groups.								
Note: Field trips outside of class time will be	required. Pleas	e check with	the depar	tment for details.				
Prerequisites (or NONE):	None.							
Corequisites (if applicable, or NONE):	None.							
Pre/corequisites (if applicable, or NONE):	None.							
Antirequisite Courses (Cannot be taken for	additional crea	dit.)	Course Details					
Former course code/number:			Special	Special Topics course: No				
Cross-listed with:				s, the course will be offered nations representing differed				
Equivalent course(s):			_	d Study course: No	, ,			
(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.)			(See policy 207 for more information.)					
			Grading System: Letter grades					
			Deliver	/ Mode: Face-to-face only	1			
Typical Structure of Instructional Hours			Expecte	ed frequency: Annually				
Lecture/seminar		30	Maximum enrolment (for information only): 25					
Supervised laboratory hours (science lab)		15	Prior L	earning Assessment and	Recognition (PLAR)			
				s available for this course.	0 ()			
	Total hours	45	Tropofe					
				er Credit (See <u>bctransfer</u>				
Scheduled Laboratory Hours			Transfer credit already exists: Yes					
Labs to be scheduled independent of lecture hours: \square No \square Yes				outline for (re)articulation: s, fill in <u>transfer credit form</u> .				
Department approval				Date of meeting:	November 2022			
Faculty Council approval				Date of meeting:	December 2, 2022			
Undergraduate Education Committee (UEC) approval				Date of meeting:	April 21, 2022			

University of the Fraser Valley Official Undergraduate Course Outline

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

Upon successful completion of this course, students will be able to:

- 1. Explain history of horticulture and describe different horticulture sectors.
- 2. Explain plant classifications and nomenclature, and life cycles of flowering plants.
- 3. Describe plant anatomy and function from the cell organelle level to cell types, tissue systems, and organs, pollination, and fertilization.
- 4. Explain functions of the naturally occurring plant hormones and how they influence plant growth.
- 5. Describe photosynthesis and respiration.
- 6. Describe how photosynthesis and respiration are influenced by the following environmental factors: light, temperature, water, gases, plant nutrition.
- 7. Summarise the function of the key plant nutrients.
- 8. Describe how water and plant metabolites are moved throughout plants.
- 9. Describe transpiration.
- 10. Identify 14 important commercial and Indigenous plants to the Fraser Valley including family, genus, and species, propagation, etc.

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

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

Details:

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

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

	Туре	Author or description	Title and publication/access details	Year		
1.	Textbook	McMahon, M.	Plant Science: Growth, Development, and Utilization of Cultivated Plants	2019		
2.						
3.						
4.						
5.						
De	Described Additional Sumplice and Materials (Cofficient hardware tools anasistical slathing at)					

Required Additional Supplies and Materials (Software, hardware, tools, specialized clothing, etc.)

Course Content and Topics

- Horticulture history
- Horticulture history
 Horticulture sectors
- Nomenclature and different forms of classification
- Plant anatomy; cell and tissues
- Plant anatomy; vegetative organs and modifications
- Plant reproduction, pollination, and fertilization
- Plant growth regulators
- The leaf and photosynthesis
- Respiration and storage
- Environmental factors affecting plant growth and development
- Plant nutrition
- Plant water; transport in plants