



ORIGINAL COURSE IMPLEMENTATION DATE: September 2003
 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.

Course Code and Number: AGRI 123	Number of Credits: 3 Course credit policy (105)										
Course Full Title: Horticulture Skills I Course Short Title: Horticulture Skills I											
Faculty: Faculty of Science	Department/School: Agriculture Technology										
Calendar Description: Provides training in plant propagation techniques including seed propagation, cuttings, and modified organs, as well as turf planting and landscape maintenance. Students will be introduced to plant reproduction and growth. Note: Field trips during class time will be required. Please check with the department for details.											
Prerequisites (or NONE):	None.										
Corequisites (if applicable, or NONE):	None.										
Pre/corequisites (if applicable, or NONE):	None.										
Antirequisite Courses (<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>	Course Details Special Topics course: No <i>(If yes, the course will be offered under different letter designations representing different topics.)</i> Directed Study course: No <i>(See policy 207 for more information.)</i> Grading System: Letter grades Delivery Mode: Face-to-face only Expected frequency: Annually Maximum enrolment (for information only): 36										
Typical Structure of Instructional Hours <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;">15</td> </tr> <tr> <td>Supervised laboratory hours (science lab)</td> <td style="text-align: center;">30</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td style="text-align: right;">Total hours</td> <td style="text-align: center;">45</td> </tr> </table>	Lecture/seminar	15	Supervised laboratory hours (science lab)	30					Total hours	45	Prior Learning Assessment and Recognition (PLAR) PLAR is available for this course.
Lecture/seminar	15										
Supervised laboratory hours (science lab)	30										
Total hours	45										
Scheduled Laboratory Hours Labs to be scheduled independent of lecture hours: No	Transfer Credit (See bctransferguide.ca) Transfer credit already exists: Yes Submit outline for (re)articulation: [click to select] <i>(If yes, fill in transfer credit form.)</i>										
Department approval	Date of meeting: December 2025										
Faculty Council approval	Date of meeting: January 9, 2026										
Undergraduate Education Committee (UEC) approval	Date of meeting: April 24, 2026										

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. Investigate the best practices of plant propagation for different species of native, commercial and ornamental plants
2. Evaluate growing substrate options to make informed, environmentally responsible choices.
3. Discuss seed biology, the stages of seed germination and conditions required for successful germination.
4. Describe the practices involved in planting and maintaining turf, with emphasis on sustainability.
5. Implement techniques to effectively propagate plants through cuttings (semi-ripe, and herbaceous).
6. Perform appropriate pruning on landscape plants to enhance their safety, health and growth.
7. Develop the skills to effectively propagate plants with their modified organs, bulbs, corms, etc.
8. Describe both Indigenous and contemporary uses of fire as a tool for site maintenance, preparation and impacts on plant propagation.

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

Assignments:	40%	Quizzes/tests/midterm:	30%	Final exam:	30%
	%		%		%

Details:

Assignments: substrates in horticulture (10%), seed germination evaluation of different methods (10%), field trip report (10%), propagation by cuttings impact of hormones (10%).

Final exam will include a practical skills assessment.

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.)*

Hands-on activities

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. OER	Nakano, M	Red Seal Landscape Horticulturist Identify Plants and Plant Requirements	Current
3.			
4.			
5.			

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

Pruners, pocketknife, CSA (Canadian Safety Association) approved footwear, work gloves, rain gear and appropriate work clothing, calculator, transportation to field trips.

Course Content and Topics

- Biology of plant propagation
- Growing substrates in horticulture industry with a focus on sustainability aspects
- Plant propagation by seeds; biology, germination and seeding
- Turf blends, species and uses, establishment and maintenance
- Plant propagation by cutting (herbaceous) and rooting hormones I
- Plant propagation by cutting (soft & semi-hardwood) and rooting hormones II
- Introduction to pruning and fall pruning for landscape plants
- Plant propagation by modified organs; bulbs, corms, rhizomes
- Plant propagation by leaf cuttings, division and layering
- Innovative and Indigenous approaches to sustainable landscaping in a changing climate