

## 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 327		<b>Number of Credits:</b> 3 <a href="#">Course credit policy (105)</a>													
<b>Course Full Title:</b> Nursery Production and Propagation: Science and Practice <b>Course Short Title:</b> Nursery Production & Prop.															
<b>Faculty:</b> Faculty of Science		<b>Department (or program if no department):</b> Agriculture Technology													
<b>Calendar Description:</b> <p>Operations and management of a commercial nursery are explored in this course. Topics include propagation techniques, growing methods, commonly used equipment, relevant legislation, and legal obligations. Production needs of different types of plants are explored using a combination of theory and hands-on practice, with students working in the on-campus greenhouse during most classes.</p> <p>Note: Field trips outside of class time will be required. Please check with the department for details.</p>															
<b>Prerequisites (or NONE):</b>		None.													
<b>Corequisites (if applicable, or NONE):</b>		None.													
<b>Pre/corequisites (if applicable, or NONE):</b>		AGRI 124 and AGRI 129.													
<b>Antirequisite Courses</b> ( <i>Cannot be taken for additional credit.</i> ) Former course code/number: <b>AGRI 227</b> 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>25</b>													
<b>Typical Structure of Instructional Hours</b> <table border="1"> <tr> <td>Lecture/seminar</td> <td>25</td> </tr> <tr> <td>Experiential (work-integrated learning)</td> <td>17</td> </tr> <tr> <td>Experiential (field trip)</td> <td>3</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td><b>Total hours</b></td> <td><b>45</b></td> </tr> </table>		Lecture/seminar	25	Experiential (work-integrated learning)	17	Experiential (field trip)	3					<b>Total hours</b>	<b>45</b>	<b>Prior Learning Assessment and Recognition (PLAR)</b> PLAR is available for this course.	
Lecture/seminar	25														
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<b>Total hours</b>	<b>45</b>														
<b>Scheduled Laboratory Hours</b> Labs to be scheduled independent of lecture hours: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		<b>Transfer Credit</b> (See <a href="#">bctransferguide.ca</a> .) Transfer credit already exists: <b>Yes</b> Submit outline for (re)articulation: <b>Yes</b> <i>(If yes, fill in <a href="#">transfer credit form</a>.)</i>													
<b>Department approval</b>		<b>Date of meeting:</b> November 2022													
<b>Faculty Council approval</b>		<b>Date of meeting:</b> December 2, 2022													
<b>Undergraduate Education Committee (UEC) approval</b>		<b>Date of meeting:</b> April 21, 2022													

**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. Discuss relevant legislation specific to the nursery sector.
2. Explain regulatory requirements such as the phytosanitary certificates.
3. Choose an appropriate production method for a site.
4. Apply knowledge of propagation techniques and potting media qualities for different plant types.
5. Estimate the time and cost to bring a crop to market.
6. List the common types of pots and plug trays and discuss their uses.
7. Organize and execute a plant sale of multiple plant species, includes determining price, promotion, and place for the sale.
8. Apply common industry terms, for example bedding plant, offset, and division.
9. Explain the role of the ornamental nursery sector in the introduction of invasive plant species.
10. Discuss practices to adapt to and mitigate contributions to climate change specific to the nursery sector.

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

Project:	30%	Quizzes/tests:	40%	Final exam:	30%
	%		%		%

**Details:**

Project: Plant sale

**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. [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	Westbrook, Nau and Caulkins	Ball Red Book: Crop Culture and Production (Volume 2)	2021
2. Online resource	BC Ministry of Agriculture	Nursery Production and Pest Management Guide ( <a href="https://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/agriculture-and-seafood/animal-and-crops/crop-production/nursery-production-guide.pdf">https://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/agriculture-and-seafood/animal-and-crops/crop-production/nursery-production-guide.pdf</a> )	2017
3.			
4.			
5.			

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

Calculator, CSA (Canadian Safety Association) approved footwear, pruners, pocket knife, work gloves, rain gear, transportation to field trips.

**Course Content and Topics**

- Laws and regulation
- Canadian Food Inspection Agency (CFIA)
- Common practices in the commercial nursery industry (including nutrient and pest management)
- Liners and plug trays
- Drainage of different potting media
- Container stock production versus field stock production
- Vegetative reproduction of plants
- Propagation by offsets and division
- Seed biology
- Stratification and scarification of seeds
- Plant hormones and herbaceous cuttings in preparation for plant sale
- Commercial nursery industry outlook and market trends
- Preparation for plant sale