

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: AGRI 490		Number of Credits: 3 Course credit policy (105)													
Course Full Title: Directed Studies in Agriculture III Course Short Title: Dir Studies in Agriculture III															
Faculty: Faculty of Science		Department (or program if no department): Agriculture Technology													
Calendar Description: Provides an opportunity to independently explore an agriculture related problem. Students develop their own projects overseen by a faculty supervisor. Students perform independent primary research to develop a manuscript for a peer-reviewed agriculture-related journal.															
Prerequisites (or NONE):		B+ or better in AGRI 390 and instructor's permission.													
Corequisites (if applicable, or NONE):															
Pre/corequisites (if applicable, or NONE):		STAT 104 or STAT 106.													
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: Yes; no limit on repeats <i>(See policy 207 for more information.)</i> Grading System: Letter grades Delivery Mode: May be offered in multiple delivery modes Expected frequency: Every semester Maximum enrolment (for information only): 6													
Typical Structure of Instructional Hours <table border="1"> <tr> <td>Lecture/seminar</td> <td>15</td> </tr> <tr> <td>Supervised laboratory hours (science lab)</td> <td>30</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>Total hours</td> <td>45</td> </tr> </table>		Lecture/seminar	15	Supervised laboratory hours (science lab)	30							Total hours	45	Prior Learning Assessment and Recognition (PLAR) PLAR cannot be awarded for this course because: The purpose of the course is individualized learning with faculty supervisor.	
Lecture/seminar	15														
Supervised laboratory hours (science lab)	30														
Total hours	45														
Scheduled Laboratory Hours Labs to be scheduled independent of lecture hours: ☒ No ☐ Yes		Transfer Credit (See bctransferguide.ca) Transfer credit already exists: No Submit outline for (re)articulation: No <i>(If yes, fill in transfer credit form.)</i>													
Department approval		Date of meeting: April 11, 2023													
Faculty Council approval		Date of meeting: May 26, 2023													
Undergraduate Education Committee (UEC) approval		Date of meeting: March 22, 2024													

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. Develop a research proposal, including research budget, suitable for submission to a funding agency.
2. Develop a protocol (experiment, survey, observation, etc.) for collecting agriculture-related data. Collect and organize data collected from experiment, survey, or observations.
3. Employ ethical primary data collection practices in agricultural research.
4. Analyze results of statistical tests.
5. Present, using visual tools (report, poster, grower short course, etc.), one's research, key findings, and recommendations to an appropriate audience.
6. Prepare a first draft of a manuscript suitable for submission to a peer-review journal.

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

Assignments:	50%	Holistic assessment:	10%	%
Project:	40%			%

Details:

Assignments (50%) will consist of 20% literature review, 20% methods draft, and 10% data sheets and raw data.

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	Mourão, G. and Magnusson, W.E.	Statistics without Math	2004
2. Indigenous knowledge	Wall Kimmerer, Robin	Braiding Sweetgrass	2013
3.			
4.			
5.			

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

As needed expenses for physical experimentation in lab, greenhouse, nursery, barns, or field, depending on the kind of directed study project approved. For example, students may need to provide their own transportation to a field site.

Course Content and Topics

The project will be conducted in three key phases:

1. Literature review done in consultation with the faculty supervisor at the beginning of the semester.
2. Identify question, develop survey, or experiment protocol, collect data. Faculty supervisor will ensure that research protocols meet UFV Research Office criteria (e.g., HERB or ACC).
3. Analysis, interpretation, and presentation of results.