ORIGINAL COURSE IMPLEMENTATION DATE: September 2026

REVISED COURSE IMPLEMENTATION DATE:

COURSE TO BE REVIEWED (six years after UEC approval)**:** March 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 373	**Number of Credits:** 3 Course credit policy (105)
Course Full Title: One Health and Agriculture **Course Short Title:** One Health & Agriculture	
Faculty: Faculty of Science	**Department/School:** Agriculture

Calendar Description:

Exploration of One Health with a specific focus on the agriculture component. Case studies examining zoonotic diseases and mitigation of environmental contamination will be examined. Technical skills in environmental monitoring, animal health monitoring, and communication will be practiced.

Note: Field trips outside of class time may be required.

Prerequisites (or NONE):	One of AGRI 237, BIO 111, or 60 university-level credits.
Corequisites (if applicable, or NONE):	None
Pre/corequisites (if applicable, or NONE):	None

Antirequisite Courses *(Cannot be taken for additional credit.)*

Former course code/number:

Cross-listed with:

Equivalent course(s):

(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.)

Typical Structure of Instructional Hours

Lecture/seminar	36
Experiential (field trip)	9
Total hours	**45**

Scheduled Laboratory Hours

Labs to be scheduled independent of lecture hours: **No**

Course Details

Special Topics course: **No**

(If yes, the course will be offered under different letter designations representing different topics.)

Directed Study course: **No**

(See policy 207 for more information.)

Grading System: **Letter grades**

Delivery Mode: **May be offered in multiple delivery modes**

Expected frequency: **Annually**

Maximum enrolment (for information only)**: 36**

Prior Learning Assessment and Recognition (PLAR)

PLAR is available for this course.

Transfer Credit *(See bctransferguide.ca.)*

Transfer credit already exists: **No**

Submit outline for (re)articulation: **Yes**

(If yes, fill in transfer credit form.)

Department approval	**Date of meeting:**	December 2, 2025
Faculty Council approval	**Date of meeting:**	January 9, 2026
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	March 27, 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. Compare the One Health paradigm to alternate approaches to addressing complex societal challenges related to public health, food supply and environment.
2. Explain One Health's history and (potential) application in both local, national and international context; including impacts on Indigenous communities.
3. Explain the role of agriculture as part of the overall One Health paradigm.
4. Analyze historical and contemporary zoonotic disease case studies.
5. Design mitigation strategies for reducing public health and environmental health risk from agricultural activities.
6. Describe the holistic approach proposed by One Health with an emphasis on traditional and contemporary Indigenous world views on the interconnectedness of people, animals and environment.
7. Communicate with a broad range of stakeholders key principles and practices associated with One Health.

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

Project:	25%	Assignments:	25%		%
Quizzes/tests/midterm:	50%		%		%

Details:

Bi-weekly Quizzes – 50% (5 x 10% each)
Project: A semester-based group project involving a review of literature, collection of data, and presentation
Assignments: 5 assignments (each worth 5%) based on select course readings and classroom activities

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.)*

Lecture, guest lectures, field trips

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.	OER	Meththika Vithanage, Majeti Narasimha Vara Prasad	One Health: Human, Animal, and Environment Triad	Current
2.	Online resource		One Health https://ipac-canada.org/resource-centre/infectious-disease-resources/one-health/	
3.				

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

Course Content and Topics

Week 1: Introduction to One Health
Week 2: Agriculture and Its Role in One Health
Week 3: Zoonotic Diseases and Agriculture
Week 4: Zoonotic Diseases and Agriculture (Barn Activity)
Week 5: Agricultural Work Force and Public Health
Week 6: Antimicrobial Resistance – Agriculture & Public Health
Week 7: Soil Health, Water Resources and Agriculture (Field Trip)
Week 8: Food Safety and Public Health (Guest Speaker – BC Centre for Disease Control)
Week 9: Climate Change, Agriculture, and Health
Week 10: Socioeconomic Dimensions including Public Policy (Guest Speaker – BC Ministry of Health)
Week 11: Future Directions
Week 12: One Health Community Fair – Student Projects