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 334	**Number of Credits:** 3 Course credit policy (105)
Course Full Title: Poultry Production: Applied Science and Practice **Course Short Title:** Poultry Production	
Faculty: Faculty of Science	**Department/School:** Agriculture

Calendar Description:

Integrates scientific principles with practical skills used across a full broiler or layer production cycle. Students may engage in commercial-scale husbandry practices and learn the theory and methodology of incubation, bird handling, euthanasia techniques, environmental monitoring, and sustainable egg and meat production. Emphasis is placed on interpreting data, understanding regulatory frameworks, and applying practical knowledge to scientific methodology and writing skills.

Note: Field trips outside of 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):	AGRI 332.

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	22
Experiential (field trip)	5
Supervised laboratory hours (science lab)	18
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: **Face-to-face only**

Expected frequency: **Annually**

Maximum enrolment (for information only)**: 32**

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. Perform core poultry husbandry tasks across a full broiler production cycle while adhering to industry-standard biosecurity, on-farm food safety, and animal care protocols.
2. Conduct environmental assessments in commercial/research poultry barns to recommend evidence-based adjustments to prioritize sustainability and optimize bird health and performance.
3. Apply diagnostic and health assessment techniques, including bird handling, blood collection, welfare scoring, identifying the correct euthanasia method, and necropsy techniques, to identify flock health issues within commercial production settings.
4. Operate incubation equipment to evaluate embryo and egg quality in relation to breeder, environmental, and management factors.
5. Integrate practical observations, data collection, and/or scientific literature to identify the effects of management practices on birds' performance, health, welfare, the environment, or community using Indigenous traditional ecological knowledge.

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

Assignments:	40%	Field evaluation:	10%		%
Quizzes/tests/midterm:	15%	Final exam:	35%		%

Details:

Major assignments include "mini-manuscript" or a literature review evaluating a management practice, case-studies and/reflection insights, and presenting findings from the "mini-manuscript" or literature review.

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.)*

Lectures, field trips (during and outside of regular scheduled class time), experiential hands-on learning, virtual tours.

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.	Online resource	National Farm Animal Care Council	Canadian Codes of Practice for the for the Care and Handling of Hatching Eggs, Breeders, Chickens and Turkeys	Current
2.	Journal	Poultry Science (open access)	https://www.sciencedirect.com/journal/poultry-science	n/a
3.	Journal	Journal of Applied Poultry Research (open access)	https://www.sciencedirect.com/journal/journal-of-applied-poultry-research	n/a
4.	Journal	European Poultry Science (open access)	https://www.sciencedirect.com/journal/european-poultry-science	n/a
5.	Online resource	Canadian Poultry Magazine	http://www.canadianpoultrymag.com/	n/a

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

Lab coat/coveralls, barn specific footwear (boots, crocs, or other easily cleaned footwear), transportation to field trips, notebook, calculator, laptop with access to Microsoft Excel.

Course Content and Topics

- Biosecurity protocols and regulatory bodies
- Managing bird health and economics from chick placement to market
- Relating science to practice – photoperiod, light wavelength, stocking density, environmental enrichment, litter quality, feed/nutrition, disease management practices
- Daily husbandry and flock management practices from a Canadian and international perspective
- Poultry handling and euthanasia techniques
- Commercial farm air quality assessment, barn ventilation and air flow assessment, sustainable production practices
- Advances in environmental and animal monitoring technology and data interpretation
- Poultry anatomy and physiology
- Poultry necropsy and diagnostic techniques
- Blood sampling and basic diagnostics
- Incubation principles and embryo development
- Egg candling and fertility assessment
- Table egg quality assessment and testing