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 332	**Number of Credits:** 3 Course credit policy (105)
Course Full Title: Poultry Science **Course Short Title:** Poultry Science	
Faculty: Faculty of Science	**Department/School:** Agriculture

Calendar Description:

A comprehensive exploration of modern poultry production, covering foundational and advanced topics such as genetics and breeding, housing design, environmental management, nutrition, flock health and welfare, and the processing of eggs and poultry meat. Links scientific concepts to production strategies, emphasizing the connection between management, welfare, performance, and economic impact.

Note: Field trips outside of class time will be required. Please check with the department for details.

Prerequisites (or NONE):	AGRI 256 or BIO 111.
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	30
Experiential (field trip)	5
Supervised laboratory hours (science lab)	10
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)**: 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. Evaluate the key biological and management factors that influence productivity and efficiency in hatcheries, broiler and layer operations, broiler breeder flocks, and turkey production.
2. Assess environmental and housing variables that influence bird welfare, performance, and health.
3. Design a welfare audit that aligns with industry and National Farm Animal Care Council standards.
4. Apply course concepts to diagnose issues in nutrition, health, or management using real-world case studies and Indigenous perspectives from British Columbia and Canadian production systems.
5. Recommend evidence-based strategies to optimize environmental control, disease management, and/or productivity integrating ethical and Indigenous perspectives to a broad range of stakeholders.

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

Assignments:	40%	Final exam:	35%		%
Quizzes/tests/midterm:	25%		%		%

Details:

Major assignments include a welfare audit and report, case-studies and/reflection insights, and writing a technical report tailored to diverse audiences and presented in various formats.

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 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, transportation to field trips, notebook, calculator

Course Content and Topics

- Introduction and Overview of Poultry Production
- Terminology
- Hatchery Management
- Housing systems and equipment
- Environmental management (ventilation, lighting, etc.)
- Poultry Welfare
- Management and production of:
  - Primary breeders
  - Laying hens
  - Broiler breeders
  - Broilers
  - Turkey breeders
  - Turkeys
  - Backyard/hobby flocks
- Egg processing and methods of analyzing egg quality
- Poultry meat processing and meat quality