

AGR*1350 - Animal Production Systems and Industry: Dairy, Poultry and Egg

Winter 2025 Course Outline

Section: 01

Credits: 0.50

Land Acknowledgement: Guelph

The University of Guelph resides on the ancestral lands of the Attawandaron people and the treaty lands and territory of the Mississaugas of the Credit. We recognize the significance of the Dish with One Spoon Covenant to this land and offer respect to our Anishinaabe, Haudenosaunee and Métis neighbours. Today, this gathering place is home to many First Nations, Inuit, and Métis peoples and acknowledging them reminds us of our important connection to this land where we work and learn.

Calendar Description

This course is designed to introduce the student to animal production systems in Canada. Dairy, poultry and egg productions are covered throughout the value-chain. Topics include food, health and wellness (domestic animals and human), nutrition, housing, genetics, reproduction, husbandry practices and processing. The course includes laboratories and animal production unit tours.

Prerequisite(s): 1 of BIOL*1050, BIOL*1070, BIOL*1080 BIOL*1090

Restriction(s): AGR*2350. Restricted to students in BSCH.ABIO, BBRM.EQM, and BSAG majors/minor.

Department(s): Department of Animal Biosciences

Course Description

This course is designed to introduce the student to animal production systems in Canada and will focus on the dairy and poultry industries. Topics include food, health and wellness (domestic animals and human), nutrition, housing, genetics, reproduction, husbandry practices and processing. The course includes laboratories and animal production unit tours.

Lecture Schedule

MonWedFri 4:30pm-5:20pm in ROZH*101 (1/6 to 4/21)

Lab Schedule

Day	Time	Location	Sections
Mondays	11:30-02:20	ANNU 110	101
Wednesdays	11:30-02:20	ANNU 110	102
Tuesdays	08:30-11:20	ANNU 102	103
Mondays	08:30-11:20	ANNU 110	104
Fridays	08:30-11:20	ANNU 110	105
Fridays	11:30-02:20	ANNU 110	106
Tuesdays	02:30-05:20	ANNU 102	107
Thursdays	08:30-11:20	ANNU 102	108
Wednesdays	08:30-11:20	ANNU 110	109
Tuesdays	11:30-02:20	ANNU 102	110
Thursdays	11:30-02:20	ANNU 102	111

Instructor Information

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Additional Support

Teaching Assistants:

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Learning Resources

No specific text book is required for this course. All the lectures, laboratories and associated material will be provided and available on the CourseLink site.

Cost of Textbooks and Learning Resources

Textbook / Learning Resource	Required / Recommended	Cost
Not Applicable		

Field Trip Fees

For those courses in the Department of Animal Biosciences that have a field trip component - an associated fee for each field trip in the amount of \$20 will apply. Further details on how these fees will be collected will be provided in class/on CourseLink; along with a waiver form that will need to be completed prior to the trip(s).

Library Course Reserve (Ares)

For this course, you will be required to access course reserve materials through the University of Guelph McLaughlin Library. To access these items, select **Ares** on the navbar in CourseLink. Note that you will need your Central Login ID and password in order to access items on reserve.

For further instructions on accessing reserve resources, visit How to Get Course Reserve Materials (<https://www.lib.uoguelph.ca/find/course-reserves-ares/>).

If at any point during the course you have difficulty accessing reserve materials, please contact the e-Learning Operations and Reserve Services staff at:

Tel: 519-824-4120 ext. 53621 | Email: libres2@uoguelph.ca | Location: McLaughlin Library, First Floor, University of Guelph

Course Learning Outcomes

1. Understand the basic structure of the industry and general production practices for dairy and feather species in Canada. Including topics relating to husbandry and management, nutrition, health, welfare, genetics, and reproduction of dairy cattle and poultry production.
2. Understand the role of livestock production systems in the Canadian and global economy.
3. Understand and critically evaluate current issues facing livestock agriculture in Canada.
4. Effectively communicate a position surrounding key issues in the livestock industry.
5. Understand how new technologies can advance livestock production practices.

Lecture and Lab Schedule

Day	Date:	Topic	Activities	Due
Mon	1/6	Introduction of the course Introduction and History of the Dairy industry Dairy Industry Overview		No Lab (No Assignment)
Mon	1/13	Dairy Industry Overview Nutrition Transition cows		Ontario Dairy Research Centre Tour (Assignment #1)
Mon	1/20	Dairy Nutritionist Guest Lecture Milking, Housing and Management Milking, Housing and Management		Dairy Farm Tour (Assignment #2)
Mon	1/27	Milking, Housing and Management Calf and Heifers Calf and Heifers		Dairy Physiology and Nutrition (Assignment #3)
Mon	2/3	Dairy Vet Guest Lecture Dairy and the Environment Welfare and proAction		Dairy Health and ProAction (Assignment #4)
Mon	2/10	Hot Topics in Dairy production Dairy Welfare / ProAction Guest Lecture Midterm Review Session		Dairy Research (No Assignment)
Mon	2/17	Winter Break		
Wed	2/19	Winter Break		
Fri	2/21	Winter Break		
Mon	2/24	Midterm (In person) History of the Poultry Industry Anatomy/physiology of poultry		No Lab (No Assignment)
Mon	3/3	Introduction to genetic selection in poultry Impact of genetic selection on production systems Insight from an industry expert		Anatomy/Physiology (Assignment #5)
Mon	3/10	Nutrition: animal needs Nutrition: ingredients and feed formulation Insight from a poultry nutritionist		Genetic selection (Assignment #6)
Mon	3/17	Health challenges in poultry production systems Health management and preparedness Insight from a field expert		Fieldtrip to Feed Mill (Assignment #7)
Mon	3/24	Introduction to housing systems/ environmental management Impact of production systems on animal welfare Insight from a welfare expert		Poultry Health and preparedness (Assignment #8)
Mon	3/31	Hot topics in Poultry production Overview of careers in the poultry industry Review session for the final		Poultry Management and welfare debate
Fri	4/18	Holiday - No Exams Scheduled		

Lab / Seminar Schedule

Laboratory week 1 (Ontario Dairy Research Centre Tour)

Monday Jan 13 to Friday Jan 17 depending on sections

Laboratory week 2 (Dairy Farm Tour)

Monday Jan 20 to Friday Jan 24 depending on sections

Laboratory week 3 (Dairy Physiology and Nutrition)

Monday Jan 27 to Friday Jan 31 depending on sections.

Laboratory week 4 (Dairy and Health and ProAction)

Monday Feb 3 to Friday Feb 7 depending on sections.

Laboratory week 5 (Dairy Research)

Monday Feb 10 to Friday Feb 14 depending on sections.

Laboratory week 6 (Anatomy/Physiology)

Monday March 3 to Friday March 7 depending on sections.

Laboratory week 7 (Genetic selection)

Monday March 10 to Friday March 14 depending on sections.

Laboratory week 8 (Fieldtrip to Feed Mill)

Monday March 17 to Friday March 21 depending on sections.

Laboratory week 9 (Poultry Health and preparedness)

Monday Mar 24 to Friday Mar 28 depending on sections

Laboratory week 10 (Poultry Management and welfare debate)

Monday Mar 31 to Friday Apr 4 depending on sections

Assessment Breakdown

Description	Weighting (%)	Due Date
Midterm	30%	Feb 24
Final Exam	30%	April 14
Lab Assignments	40%	Ongoing

Assessment Details

Midterm

Midterm

30%

Format: 1/2 multiple choice questions; 1/2 short answer questions

Content: Material covered during the Dairy portion of this course

Students who are unable to write during this time must contact the instructor via email at least two days prior to the exam to arrange for an alternative time. Students requiring accommodations are encouraged to contact Julie Kim (lab coordinator) at least 1 week prior to the exam to ensure these accommodations are applied to the online version of the exam.

Course Learning Outcomes Assessed: 1, 2, 3, 4, 5

Exam

Final Exam

30%

Format: 1/2 multiple choice questions; 1/2 short answer questions

Content: Material covered during the poultry and egg portion of this course (not cumulative)

Students who are unable to write during this time must contact the instructor via email at least two days prior to the exam to arrange for an alternative time. Students requiring accommodations are encouraged to contact Julie Kim (lab coordinator) at least 1 week prior to the exam to ensure these accommodations are applied to the online version of the exam.

Course Learning Outcomes Assessed: 1, 2, 3, 4, 5

Lab Assignments

Lab Assignments

40%

There will be a total of 8 lab assignments through the duration of the course and all students will have 24 hours to complete following their assigned lab section. However, students are encouraged to complete their assignment during the laboratory session as TA help will be available (5% per assignment).

Course Learning Outcomes Assessed: 1, 2, 3, 4, 5

Final Exam

Date: Apr 14

Time: Mon 8:30am-10:30am

Location: TBA *Please see Web Advisor closer to the date of scheduled final for location.*

To understand rules and regulations regarding Examinations students are encouraged to read Student's Responsibilities (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/examinations/>)

If the student is unable to meet the final exam requirements due to medical, psychological or compassionate circumstances they are encouraged to review Student's Responsibilities in the Academic Consideration, Appeals and Petitions (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-consideration-appeals-petitions/>) section of the Academic Calendar.

Last Day to Drop Course

The final day to drop Winter 2025 courses without academic penalty is the last day of classes: April 04

After this date, a mark will be recorded, whether course work is completed or not (a zero is assigned for missed tests/assignments). This mark will show on the student's transcript and will be calculated into their average.

Course Grading Policies

Submission of Assignments

each instructor will have their own policy

Late Assignment

each instructor will have their own policy

Standard Statements for Undergraduate Courses

Academic Integrity

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-misconduct/>) is outlined in the Undergraduate Calendar.

Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required; however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability. Use of the SAS Exam Centre requires students to make a booking at least 10 days in advance, and no later than the first business day in November, March or July as appropriate for the semester. Similarly, new or changed accommodations for online quizzes, tests and exams must be approved at least a week ahead of time. For students at the Guelph campus, information can be found on the SAS website. (<https://www.uoguelph.ca/sas/>)

Accommodation of Religious Obligations

If you are unable to meet an in-course requirement due to religious obligations, please email the course instructor within two weeks of the start of the semester to make alternate arrangements.

See the Academic calendar for information on regulations and procedures for Academic Accommodations of Religious Obligations (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-accommodation-religious-obligations/>).

Copies of Out-of-class Assignments

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

Drop Date

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all undergraduate students except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in the Undergraduate Calendar - Dropping Courses (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/dropping-courses/>).

Email Communication

As per university regulations, all students are required to check their <uoguelph.ca> e-mail account regularly. e-mail is the official route of communication between the University and its students.

Health and Wellbeing

The University of Guelph provides a wide range of health and wellbeing services at the Vaccarino Centre for Student Wellness (<https://wellness.uoguelph.ca/>). If you are concerned about your mental health and not sure where to start, connect with a Student Wellness Navigator (<https://wellness.uoguelph.ca/navigators/>) who can help develop a plan to manage and support your mental health or check out our mental wellbeing resources (<https://wellness.uoguelph.ca/shine-this-year/>). The Student Wellness team are here to help and welcome the opportunity to connect with you.

Illness

Medical notes will not normally be required for singular instances of academic consideration, although students may be required to provide supporting documentation for multiple missed assessments or when involving a large part of a course (e.g., final exam or major assignment).

Recording of Materials

Presentations that are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a student, or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

Resources

The Academic Calendars (<http://www.uoguelph.ca/registrar/calendars/?index>) are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs.

When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. See the Undergraduate Calendar for information on regulations and procedures for Academic Consideration. (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-consideration-appeals-petitions/>)