



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

Winter 2023

Section(s): C01

Department of Animal Biosciences

Credit Weight: 0.50

Version 2.00 - January 09, 2023

1 Course Details

1.1 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.

Pre-Requisites:

1 of BIOL*1050, BIOL*1070, BIOL*1080 BIOL*1090

Restrictions:

AGR*2350. Restricted to students in BSCH.ABIO, BBRM.EQM, and BSAG majors/minor.

1.2 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.

1.3 Timetable

Lectures - Monday, Wednesday and Friday, 1:30-2:20pm (MACN 105/Virtual). Lecture material will be provided before class via Courselink.

Timetable is subject to change. Please see WebAdvisor for the latest information.

1.4 Final Exam

Final Exam scheduled for April 25th at 11:30am-1:30pm. Location: TBA

Exam time and location is subject to change. Please see WebAdvisor for the latest information.

2 Instructional Support

2.1 Instructional Support Team

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2.2 Teaching Assistants

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3 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.

4 Learning Outcomes

4.1 Course Learning Outcomes

By the end of this course, you should be able to:

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.
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5 Teaching and Learning Activities

5.1 Lecture and Lab Schedule

Week	Date	Day	Lecture	Lab
	09-Jan	Mon	Introduction of the course	
Week 1	11-Jan	Wed	History of the Dairy Industry	No Lab (No Assignment)
	13-Jan	Fri	Current status of the Dairy Industry	
	16-Jan	Mon	Current status of the Dairy Industry	
Week 2	18-Jan	Wed	Anatomy/Genetics	Ontario Dairy Research Centre Tour
			Introduction to housing systems/environmental management	(Assignment #1)
	20-Jan	Fri		
Week 3	23-Jan	Mon	Insight from housing expert	Dairy Farm Tour (Assignment #2)

	25-Jan Wed	Animal welfare and proAction	
	27-Jan Fri	Calf and heifer management	
	30-Jan Mon	Calf and heifer management	
Week 4	01-Feb Wed	Insight from calf expert	Dairy Physiology and Nutrition (Assignment #3)
	03-Feb Fri	Transition cow management	
	06-Feb Mon	Transition cow management	
Week 5	08-Feb Wed	Insight from transition cow expert	Dairy Health and ProAction (Assignment #4)
	10-Feb Fri	Goat, sheep and water buffalo production	
	13-Feb Mon	Hot topics in Dairy Production	
Week 6	15-Feb Wed	Career Panel	Dairy Research (No Assignment)
	17-Feb Fri	Midterm (In person or online)	
	Reading week	No lectures	No Lab
	27-Feb Mon	Introduction to Poultry Production	
Week 7	01-Mar Wed	History of the Poultry Industry	No Lab
	03-Mar Fri	Anatomy/physiology of poultry	
	06-Mar Mon	Introduction to genetic selection in poultry	
Week 8	08-Mar Wed	Impact of genetic selection on production systems	Anatomy / Physiology (Assignment #5)
	10-Mar Fri	Insight from an industry expert	
	13-Mar Mon	Nutrition: animal needs	
Week 9	15-Mar Wed	Nutrition: ingredients and feed formulation	Genetic selection (Assignment #6)
	17-Mar Fri	Insight from a poultry nutritionist	
		Health challenges in poultry production systems	
Week 10	20-Mar Mon	Health management and preparedness	Fieldtrip to Feed Mill (Assignment #7)
	22-Mar Wed	Insight from a field expert	
		Introduction to housing systems/environmental management	
Week 11	27-Mar Mon	Impact of production systems on animal welfare	Poultry Health and preparedness (Assignment #8)
	29-Mar Wed	Insight from a welfare expert	
	31-Mar Fri	Hot topics in Poultry production	
Week 12	03-Apr Mon	Overview of careers in the poultry industry	Poultry Management and welfare debate
	05-Apr Wed	Review session for the final	
	10-Apr Mon		

6 Assessments

6.1 Marking Schemes & Distributions

Name	Scheme A (%)
Midterm	30
Final Exam	30
Lab Assignments	40
Total	100

6.2 Assessment Details

Midterm (30%)

Date: Fri, Feb 17, 1:30 PM - 2:20 PM, In person MACN 105 or online

Learning Outcome: 1, 2, 3, 5

Students who are unable to write during the 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.

Final Exam (30%)

Date: Tue, Apr 25, 11:30 AM - 1:30 PM, In person (room TBA) or online

Learning Outcome: 1, 2, 3, 5

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 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.

Lab Assignments (40%)

Date: Mon, Jan 16, 8:30 AM - Mon, Apr 10, 5:20 PM

Learning Outcome: 1, 3, 4, 5

Although all labs will be in person, the assignments for each lab will be online.

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

7 University Statements

7.1 Email Communication

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

7.2 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. The grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Academic Consideration and Appeals

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Graduate Calendar - Grounds for Academic Consideration

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

Associate Diploma Calendar - Academic Consideration, Appeals and Petitions

<https://www.uoguelph.ca/registrar/calendars/diploma/current/index.shtml>

7.3 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 students (undergraduate, graduate and diploma) 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 their respective Academic Calendars.

Undergraduate Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>

Graduate Calendar - Registration Changes

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-reg-regchg.shtml>

Associate Diploma Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.shtml>

7.4 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.

7.5 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 14 days in advance, and no later than November 1 (fall), March 1 (winter) or July 1 (summer). Similarly, new or changed accommodations for online quizzes, tests and exams must be approved at least a week ahead of time.

For Guelph students, information can be found on the SAS website
<https://www.uoguelph.ca/sas>

For Ridgetown students, information can be found on the Ridgetown SAS website
<https://www.ridgetownc.com/services/accessibilityservices.cfm>

7.6 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 encourages academic integrity. 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.

Undergraduate Calendar - Academic Misconduct
<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Graduate Calendar - Academic Misconduct
<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

7.7 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.

7.8 Resources

The Academic Calendars are the source of information about the University of Guelph's procedures, policies, and regulations that apply to undergraduate, graduate, and diploma programs.

Academic Calendars
<https://www.uoguelph.ca/academics/calendars>

7.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings, changes in classroom protocols, and academic schedules. Any such changes will be announced via CourseLink and/or class email.

This includes on-campus scheduling during the semester, mid-terms and final examination schedules. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

7.10 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).

7.11 Covid-19 Safety Protocols

For information on current safety protocols, follow these links:

- <https://news.uoguelph.ca/return-to-campus/how-u-of-g-is-preparing-for-your-safe-return/>
- <https://news.uoguelph.ca/return-to-campus/spaces/#ClassroomSpaces>

Please note, these guidelines may be updated as required in response to evolving University, Public Health or government directives.
