



ANSC*6490 Advanced Dairy Management

Winter 2022

Section(s): C01

Department of Animal Biosciences

Credit Weight: 0.50

Version 1.00 - January 24, 2022

1 Course Details

1.1 Calendar Description

A comprehensive systems science and integrative capstone course that encompasses the "closing of the loop" education of dairy production systems. Students will be exposed to real-time issues relating to dairy production from, environment, economics, nutrition, housing, health, welfare, society and agrology. This course will allow the student to practice their training from the courses they have been exposed to as undergraduates into many case study evaluations on farms provincially, nationally and internationally.

Restrictions: Instructor's consent required.

1.2 Course Description

Over the past decade there has been considerable advancements in dairy research and technologies that have impacted current management strategies. In this class we will evaluate the latest concepts in nutrition, physiology, reproduction and health management in dairy cattle production. The course is designed to promote independent research and hypothesis generation of the most up to date topics in dairy production science. Laboratories will emphasize practical applications of research via field trips and discussions.

1.3 Timetable

Tuesday and Thursday - Lectures from 12:30-2:00pm. (ANNU rm 101 - after Jan.31st)

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

1.4 Final Exam

No final examination.

2 Instructional Support

2.1 Instructional Support Team

Instructor: Michael Steele
Email: masteele@uoguelph.ca
Office: ANNU 235

3 Learning Resources

3.1 Required Resources

Required Course Material (Other)
Material will be supplied or on CourseLink

4 Learning Outcomes

4.1 Course Learning Outcomes

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

1. Be able to interpret and communicate the latest topics related to dairy cow nutrition, physiology, reproduction and health.
 2. Be able to extrapolate, cultivate, construct and apply advanced research and analytical techniques, as demonstrated through modelling and integrated software programs presented in lectures and workshops.
 3. Be able to effectively communicate their thoughts, arguments, and decision-making outcomes in an effective professional manner to a multitude of clientele including stakeholders, academics, government and primary producers. This will be demonstrated through the appraisal of domestic, national and international whole farm-based case studies using individual farm contact and social media interaction both in an individual and group leadership context.
 4. Develop a mature intellectual independence, integrate ethical reasoning and apply it to independent evaluation of issues facing dairy farmers globally.
-

5 Teaching and Learning Activities

5.1 Lecture

Topics: Lectures

There will be two 60-90 minute meetings per week, delivered by faculty or guest lecturers from industry, that will introduce all the course topics and material. Class meetings will be interactive presentations, journal article reviews and communication directly with world class leaders in the field of dairy cow biology.

Tue, Jan 18 - Thu, Jan 20

Topics: Calf Biology & Management

Tue, Jan 25 - Thu, Jan 27

Topics: Weaning & Beyond

Tue, Feb 1 - Thu, Feb 3

Topics: Transition Cow Nutritional Physiology

Tue, Feb 8 - Thu, Feb 10

Topics: Transition Cow Inflammation

Tue, Feb 15 - Thu, Feb 17

Topics: Protein and Fat Nutrition

Tue, Mar 1 - Thu, Mar 3

Topics: AMS Management

Tue, Mar 15 - Thu, Mar 17

Topics: Health

Tue, Mar 22 - Thu, Mar 24

Topics: Welfare

Tue, Mar 29 - Thu, Mar 31

Topics: Reproductive Management

5.2 Seminar

Tue, Mar 8 - Fri, Mar 11

Topics: Western Canadian Dairy Seminar

Tue, Jan 11 - Thu, Apr 7

Topics: Trifecta Webinar - Tentative Dates

6 Assessments

6.1 Marking Schemes & Distributions

Name	Scheme A (%)
Short Research Proposals	30
Proposal and Student Selected Research Topic	30
Class Participation	40
Total	100

6.2 Assessment Details

Short Research Proposals (30%)

Due: April 1st, 2022

Learning Outcome: 1, 2, 3, 4

Research Proposals (3 short research proposal based on topics) = 30 %

- Each student can select a specific topic of two of the ten modules and develop a 2 page miniature proposal
- Each student can select a specific topic presented at the Western Canadian Dairy Seminar and develop a 2 page miniature proposal

Proposal and Student Selected Research Topic (30%)

Date: April 1st, 2022

Learning Outcome: 1, 2, 3, 4

Proposal of student selected research topic = 30%

- Each student will write a 8-10 page proposal based on a topic of interest from lecture (30% of total mark)

Class Participation (40%)**Learning Outcome:** 1, 2, 3, 4

- Participation in journal article discussions and class lectures will be evaluated (20% of total mark).
- Participation in webinar development and execution (20% of total mark)

6.3 Guidelines for Preparation of Research Proposals

Refer to courselink for guidelines and samples.

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.
