

## **DAIRY HEALTH MANAGEMENT GRADUATE COURSE**

**POPM \* 6400 Summer 2020**

**Instructors** Dr. Stephen LeBlanc - Course Coordinator ([sleblanc@uoguelph.ca](mailto:sleblanc@uoguelph.ca))  
Dr. David Kelton  
Dr. David Renaud  
Dr. Charlotte Winder

**Classes** Tuesdays 1:30-3:30 pm  
Thursdays 1:30-3:30 pm  
Except as noted in the schedule below  
All meetings are online with Microsoft Teams

### **Course Objectives**

This course stresses a population-based, herd-level approach to dairy herd management, in which optimizing the efficiency of the dairy enterprise is the overall goal. The biological and economic impacts of disease and management deficiencies on herd performance will be discussed as they relate to the design and implementation of herd health programs. The course will emphasize the critical role of record keeping, data analysis and monitoring on program success.

The specific objectives are:

1. To discuss and critique the current literature in the area of dairy health management.
2. To provide the skills needed to begin to propose, and assess the impacts of health management practices of a dairy enterprise.

### **Instruction methods**

For each class 3 to 6 papers will be assigned as required preparatory reading before the class. Classes will be a combination informal lectures and seminar discussions. Reading and reference materials will be shared on Dropbox.

## Evaluation

1. Each student will lead a **scientific seminar** on an assigned topic related to an area of dairy health management. Students will select and distribute a paper on the topic one week prior to their presentation. Presentations should be 20 minutes long, followed by approximately 10 minutes for questions.
2. Each student will create knowledge translation and transfer (**KTT materials**) to communicate the key points from the topic of their scientific seminar to dairy farmers. This needs to include a written document of 1 or 2 pages and a visual summary (e.g., infographic, diagram, video clip, or other media)
3. Each student will individually complete online **modelling exercises** to assess the economic effects of changes in health management at the level, using SIMHerd (<http://www.simherd.com/en/>). The details of the assignment will be provided during the introductory class on June 4, and must be completed by June 7.

### Grading scheme

Seminar	40%
KTT materials	30%
SimHerd exercise	10%
Participation	20%
	-----
	100%

## Notices

### E-mail 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.

### 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 Dr. LeBlanc in writing, with your name, id#, and e-mail contact. See the graduate calendar for information on regulations and procedures for Academic Consideration:

[http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec\\_d0e1400.shtml](http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec_d0e1400.shtml)

### Drop Date

The last date to drop this course without academic penalty is June 18, 2020. Refer to the Graduate Calendar for the schedule of dates:

[https://www.uoguelph.ca/registrar/calendars/graduate/current/sched/sec\\_d0e1106.shtml](https://www.uoguelph.ca/registrar/calendars/graduate/current/sched/sec_d0e1106.shtml)

### Academic Misconduct

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. The Academic Misconduct Policy is detailed in the Graduate Calendar: [http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec\\_d0e1687.shtml](http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec_d0e1687.shtml)

#### Recording of Materials

Presentations which are made in relation to course work—including lectures—cannot be recorded in any electronic media without the permission of the presenter, whether the instructor, a classmate or guest lecturer.

#### Resources

The Graduate Calendar is the source of information about the University of Guelph's procedures, policies and regulations which apply to graduate programs:

<http://www.uoguelph.ca/registrar/calendars/graduate/current/>

### DAIRY HEALTH MANAGEMENT POPM\*6400 SUMMER 2020

Day	Date	Time	Topic	Instructor
Tues	May 5	1:30-3:30	Intro & overview of Health Management; industry economics	LeBlanc
Thurs	May 7	1:30-3:30	Dairy sustainability	LeBlanc
Tues.	May 12	1:30-3:30	Welfare	Winder
Thurs.	May 14	1:30-3:30	Transition management	LeBlanc
Tues.	May 19	1:30-3:30	Udder Health/Milk Quality	Kelton
Thurs.	May 21	1:30-3:30	Biosecurity	Kelton
<b>Tues.</b>	<b>May 26</b>		<b>No Class</b>	
Thurs.	May 28	1:30-3:30	Reproductive Performance	LeBlanc
Tues.	June 2		Culling	LeBlanc
Thurs.	June 4	9:30 – 11:30?	Herd-level health economics Introduction to SimHerd	SimHerd staff & LeBlanc
Tues.	June 9	9:30 – 11:30?	Discussion of SimHerd exercises	SimHerd staff & LeBlanc
Thurs.	June 11	1:30-3:30	Calves	Renaud
<b>Mon.</b>	<b>June 15</b>	<b>1:30-3:30</b>	Student presentations	LeBlanc et al
Tues.	June 16	1:30-3:30	Student presentations	LeBlanc et al
Thurs.	June 18	1:30-3:30	Student presentations	LeBlanc et al