1 Course Details

1.1 Calendar Description

Theoretical and scientific aspects of practical animal breeding programs which lead to genetic improvement of efficiency and profitability of animal production will be presented along with applications to livestock and poultry species. This course integrates quantitative genetics with concepts of statistics, economics, biology and biotechnology and expands into development of practical breeding plans.

Pre-Requisites: MBG*3060

1.2 Course Description

This is a fourth-year undergraduate course for the study of methodology in animal breeding used for genetic improvement of livestock. This course covers the practical application of methods for genetic assessment of animals and breeding programs; the development of appropriate linear models for analysis of data; the estimation of genetic parameters; and the measurement of genetic change in the population. Genetic theory is reviewed as needed. The course involves statistical methods and computing (using R) to learn data analysis techniques in animal breeding.

A pre-requisite of STAT*2040 is strongly encouraged for success in this course.
1.3 Timetable

M, W, F 8:30 - 9:20AM (Virtual / ANNU Room 102 when possible), Lab S01 T 02:30PM - 04:20PM Virtual / ANNU Room 102 when possible

1.4 Final Exam

Thur 2021/04/21 08:30AM - 10:30AM

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

2 Instructional Support

2.1 Instructional Support Team

Instructor: Christine Baes
Email: cbaes@uoguelph.ca
Telephone: +1-519-824-4120 x53363
Office: ANNU 124

2.2 Teaching Assistants

Teaching Assistant (GTA): Colin Lynch
Email: clynch@uoguelph.ca
Office Hours: TBA

2.3 Communicating with your Instructor

During the course, your instructor will interact with you on various course matters on the course website using the following ways of communication:

- **Announcements**: The instructor will use Announcements on the Course Home page to provide you with course reminders and updates. Please check this section frequently for course updates from your instructor.

- **Ask Your Instructor Discussion**: Use this discussion forum to ask questions of your instructor about content or course-related issues with which you are unfamiliar. If you encounter difficulties, the instructor is here to help you. Please post general course-related questions to the discussion forum so that all students have an opportunity to review the response. To access this discussion forum, select Discussions from the Tools dropdown menu.
• **Email:** If you have a conflict that prevents you from completing course requirements, or have a question concerning a personal matter, you can send your instructor a private message by email. Please include “MBG*4030” (no space) in subject line

• **Video Call:** If you have a complex question you would like to discuss with your instructor, you may book a video meeting on Teams (or alternate platform being used by your instructor). Video meetings depend on the availability and are booked on a first come first served basis.

### 2.4 Netiquette Expectations

**Online Behaviour**

*Inappropriate online behaviour will not be tolerated. Examples of inappropriate online behaviour include:*

- Posting inflammatory messages about your instructor or fellow students
- Using obscene or offensive language online
- Copying or presenting someone else’s work as your own
- Adapting information from the Internet without using proper citations or references
- Buying or selling term papers or assignments
- Posting or selling course materials to course notes websites
- Having someone else complete your quiz or completing a quiz for/with another student
- Stating false claims about lost quiz answers or other assignment submissions
· Threatening or harassing a student or instructor online

· Discriminating against fellow students, instructors and/or TAs

· Using the course website to promote profit-driven products or services

· Attempting to compromise the security or functionality of the learning management system

· Sharing your user name and password

· Recording lectures without the permission of the instructor

3 Learning Resources

3.1 Recommended Resources

Recommended Texts (Textbook)

· Linear Models for the Prediction of Animal Breeding Values; Author: Mrode, Raphael
· Understanding Animal Breeding; Author: Bourdon, Richard M.

3.2 Communication

All communication outside of class will be through CourseLink and Teams.
News: important messages regarding the course will be posted in the News section on CourseLink. Please check this regularly.

Discussion: Please use the Discussion option on CourseLink to ask question and discuss course content and assignments with the entire class. The instructor and GTA will monitor the online Discussion and answer questions there.

Any emailed questions related to the course content will be copied to the CourseLink Discussion and answered there for the benefit of all students.

Email: Please email the instructor or GTA for personal communications, such as scheduling an appointment, missed exam or assignment, or other personal concerns. Please include “MBG4030” (no space) in subject line

3.2 Other Resources

Notes, lecture slides, assignments, data sets, R scripts, etc. will be posted on CourseLink. Most of the assignments will require the use of free R software (see Links at CourseLink for download). Please see the Links section for additional materials. Students are advised to take their own notes during lectures.

3.2 Course Technology and Technical Support

System and Software Requirements

This course will use a variety of technologies including;

- CourseLink (main classroom)
- Teams (via Office 365)
- Zoom

To help ensure you have the best learning experience possible, please review the list of
system and software requirements.

https://opened.uoguelph.ca/student-resources/system-and-software-requirements

CourseLink System Requirements

You are responsible for ensuring that your computer system meets the necessary system requirements. Use the browser check tool to ensure your browser settings are compatible and up to date. (Results will be displayed in a new browser window).

http://spaces.uoguelph.ca/ed/system-requirements/
https://courselink.uoguelph.ca/d2l/systemCheck

Course Technologies

CourseLink

This course is being offered using CourseLink (powered by D2L's Brightspace), the University of Guelph's online learning management system (LMS). By using this service, you agree to comply with the University of Guelph's Access and Privacy Guidelines. Please visit the D2L website to review the Brightspace privacy statement and Brightspace Learning Environment web accessibility standards.

http://www.uoguelph.ca/web/privacy/ https://www.d2l.com/legal/privacy/
https://www.d2l.com/accessibility/standards/

Technical Support

If you need any assistance with the software tools or the CourseLink website, contact
CourseLink Support.

Email: courselink@uoguelph.ca

Tel: 519-824-4120 ext. 56939 Toll-Free (CAN/USA): 1-866-275-1478

Support Hours (Eastern Time):

Monday thru Friday: 8:30 am–8:30 pm

Saturday: 10:00 am–4:00 pm

Sunday: 12:00 pm–6:00 pm

Teams (via Office 365)

Office 365 Teams is a collaboration service that provides shared conversation spaces to help teams coordinate and communicate information. This course will use Teams for labs and lectures. It is recommended that you use the desktop version of Teams. As a student you are responsible for learning how to use Teams and its features.

For Teams Support visit the CCS website for more information.

https://www.uoguelph.ca/ccs/services/office365/teams

3.2 Technical Skills
As part of your learning experience, you are expected to use a variety of technologies for assignments, lectures, teamwork, and meetings. In order to be successful in this course you will need to have the following technical skills:

- Manage files and folders on your computer (e.g., save, name, copy, backup, rename, delete, and check properties);
- Install software, security, and virus protection;
- Use office applications (e.g., Word, PowerPoint, Excel, or similar) to create documents;
- Be comfortable uploading and downloading saved files;
- Communicate using email (e.g., create, receive, reply, print, send, download, and open attachments);
- Navigate the CourseLink learning environment and use the essential tools, such as Dropbox, Quizzes, Discussions, and Grades (the instructions for this are given in your course);
- Access, navigate, and search the Internet using a web browser (e.g., Firefox, Internet Explorer); and
- Perform online research using various search engines (e.g., Google) and library databases.

3.2 Library Access

As a student, you have access to the University of Guelph’s library collection, including both physical and electronic materials. For information on checking out or couriering physical library items, accessing electronic journals and returning items to the library, visit the library’s website.

If you are studying off campus and would like to access the library’s electronic resources, use the Off Campus Login and login using your Single Sign On credentials or using your last name and library barcode.

https://www.lib.uoguelph.ca/
4 Learning Outcomes

4.1 Course Learning Outcomes

By the end of this course, you should be able to:
1. Integrate quantitative genetics with statistics and biology to evaluate the breeding merit of animals.
2. Perform and understand simple data analyses for predicting breeding values of livestock.
3. Appreciate differences among livestock species and their production systems.
4. Integrate knowledge of genetic improvement techniques and evaluate how those techniques are applied to breeding programs in different species.
5. Discuss the relative merits of methods used to predict breeding values and select for multiple objectives.
6. Optimize selection and mating decisions for maximum genetic response in practical breeding schemes.
7. Assess the impact of new technologies and methods in reproduction and molecular genetics on breeding programs.
8. Accurately and effectively record and communicate scientific analyses in graphic and written form.
9. Have a command of basic terminology common in applied livestock genetics / genomics.

5 Teaching and Learning Activities

5.1 Lecture

Topics: The following is an approximate schedule of lecture topics. Guest lecturers will be announced.
<table>
<thead>
<tr>
<th>Lecture</th>
<th>Weekday</th>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Monday</td>
<td>Jan. 10</td>
<td>8:30 a.m.</td>
<td>Genetics Overview</td>
</tr>
<tr>
<td>2</td>
<td>Wednesday</td>
<td>Jan. 12</td>
<td>8:30 a.m.</td>
<td>Matrix Algebra</td>
</tr>
<tr>
<td>3</td>
<td>Friday</td>
<td>Jan. 13</td>
<td>8:30 a.m.</td>
<td>Linear Models</td>
</tr>
<tr>
<td>4</td>
<td>Monday</td>
<td>Jan. 17</td>
<td>8:30 a.m.</td>
<td>ANOVA</td>
</tr>
<tr>
<td>5</td>
<td>Wednesday</td>
<td>Jan. 19</td>
<td>8:30 a.m.</td>
<td>Solving Mixed Models</td>
</tr>
<tr>
<td>6</td>
<td>Friday</td>
<td>Jan. 21</td>
<td>8:30 a.m.</td>
<td>Pedigrees and Relationships</td>
</tr>
<tr>
<td>7</td>
<td>Monday</td>
<td>Jan. 24</td>
<td>8:30 a.m.</td>
<td>Animal Models</td>
</tr>
<tr>
<td>8</td>
<td>Wednesday</td>
<td>Jan. 26</td>
<td>8:30 a.m.</td>
<td>Animal Models with BLUP</td>
</tr>
<tr>
<td>9</td>
<td>Friday</td>
<td>Jan. 28</td>
<td>8:30 a.m.</td>
<td>Variance Estimation</td>
</tr>
<tr>
<td>10</td>
<td>Monday</td>
<td>Jan.  8:30</td>
<td>8:30 a.m.</td>
<td>Sire Repeated</td>
</tr>
<tr>
<td>Lecture</td>
<td>Weekday</td>
<td>Date</td>
<td>Time</td>
<td>Topic</td>
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</tr>
<tr>
<td>11</td>
<td>Wednesday</td>
<td>Feb. 2</td>
<td>8:30 a.m.</td>
<td>Maternal Models</td>
</tr>
<tr>
<td>12</td>
<td>Friday</td>
<td>Feb. 4</td>
<td>8:30 a.m.</td>
<td>Multiple Traits (1)</td>
</tr>
<tr>
<td>13</td>
<td>Monday</td>
<td>Feb. 7</td>
<td>8:30 a.m.</td>
<td>Multiple Traits (2)</td>
</tr>
<tr>
<td>14</td>
<td>Wednesday</td>
<td>Feb. 9</td>
<td>8:30 a.m.</td>
<td>Genomics</td>
</tr>
<tr>
<td>15</td>
<td>Friday</td>
<td>Feb. 11</td>
<td>8:30 a.m.</td>
<td>Genomics</td>
</tr>
<tr>
<td>16</td>
<td>Monday</td>
<td>Feb. 14</td>
<td>8:30 a.m.</td>
<td>Genomics</td>
</tr>
<tr>
<td>17</td>
<td>Wednesday</td>
<td>Feb. 16</td>
<td>8:30 a.m.</td>
<td>Midterm review</td>
</tr>
<tr>
<td>18</td>
<td>Friday</td>
<td>Feb. 18</td>
<td>8:30 a.m.</td>
<td>Mid-term (in-class)</td>
</tr>
<tr>
<td>19</td>
<td>Monday</td>
<td>Feb. 28</td>
<td>8:30 a.m.</td>
<td>Key Equation (1)</td>
</tr>
<tr>
<td>Lecture</td>
<td>Weekday</td>
<td>Date</td>
<td>Time</td>
<td>Topic</td>
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<tr>
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<td>-----------------------------------------------</td>
</tr>
<tr>
<td>20</td>
<td>Wednesday</td>
<td>Mar. 2</td>
<td>8:30 a.m.</td>
<td>Key Equation (2)</td>
</tr>
<tr>
<td>21</td>
<td>Friday</td>
<td>Mar. 4</td>
<td>8:30 a.m.</td>
<td>Key Equation including Genomic information</td>
</tr>
<tr>
<td>22</td>
<td>Monday</td>
<td>Mar. 7</td>
<td>8:30 a.m.</td>
<td>Multi-trait selection (1)</td>
</tr>
<tr>
<td>23</td>
<td>Wednesday</td>
<td>Mar. 9</td>
<td>8:30 a.m.</td>
<td>Multi-trait selection (2)</td>
</tr>
<tr>
<td>24</td>
<td>Friday</td>
<td>Mar. 11</td>
<td>8:30 a.m.</td>
<td>Selection Index</td>
</tr>
<tr>
<td>25</td>
<td>Monday</td>
<td>Mar. 14</td>
<td>8:30 a.m.</td>
<td>Mating and Heterosis</td>
</tr>
<tr>
<td>26</td>
<td>Wednesday</td>
<td>Mar. 16</td>
<td>8:30 a.m.</td>
<td>Mating and Heterosis (Crossbreds)</td>
</tr>
<tr>
<td>27</td>
<td>Friday</td>
<td>Mar. 18</td>
<td>8:30 a.m.</td>
<td>Mating and Heterosis (Crossbreds)</td>
</tr>
<tr>
<td>28</td>
<td>Monday</td>
<td>Mar. 21</td>
<td>8:30 a.m.</td>
<td>Guest Lecture: Beef</td>
</tr>
<tr>
<td>Lecture</td>
<td>Weekday</td>
<td>Date</td>
<td>Time</td>
<td>Topic</td>
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<tr>
<td>---------</td>
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<td>-------------------------------</td>
</tr>
<tr>
<td>29</td>
<td>Wednesday</td>
<td>Mar. 23</td>
<td>8:30 a.m.</td>
<td>Guest Lecture: Goat</td>
</tr>
<tr>
<td>30</td>
<td>Friday</td>
<td>Mar. 25</td>
<td>8:30 a.m.</td>
<td>Guest Lecture: Data</td>
</tr>
<tr>
<td>31</td>
<td>Monday</td>
<td>Mar. 28</td>
<td>8:30 a.m.</td>
<td>Guest Lecture: Pig</td>
</tr>
<tr>
<td>32</td>
<td>Wednesday</td>
<td>Mar. 30</td>
<td>8:30 a.m.</td>
<td>Guest Lecture: Turkey</td>
</tr>
<tr>
<td>33</td>
<td>Friday</td>
<td>Apr. 1</td>
<td>8:30 a.m.</td>
<td>Guest Lecture: Dairy</td>
</tr>
<tr>
<td>34</td>
<td>Monday</td>
<td>Apr. 4</td>
<td>8:30 a.m.</td>
<td>Summary: Applications of Breeding Methods</td>
</tr>
<tr>
<td>35</td>
<td>Friday</td>
<td>Apr. 6</td>
<td>8:30 a.m.</td>
<td>Final Review</td>
</tr>
<tr>
<td>36</td>
<td>Monday</td>
<td>Apr. 8</td>
<td>8:30 a.m.</td>
<td>Final Review</td>
</tr>
<tr>
<td></td>
<td>Wednesday</td>
<td>Apr. 21</td>
<td>08:30 a.m.</td>
<td><strong>FINAL EXAM</strong></td>
</tr>
</tbody>
</table>
5.2 Lab

Topics:

The following is a schedule of lab topics.

<table>
<thead>
<tr>
<th>Lab</th>
<th>Weekday</th>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>Tuesday</td>
<td>Jan. 11</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Introduction to R</td>
</tr>
<tr>
<td>1</td>
<td>Tuesday</td>
<td>Jan. 18</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Matrix algebra</td>
</tr>
<tr>
<td>2</td>
<td>Tuesday</td>
<td>Jan. 25</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Data Exploration, Linear Models, ANOVA</td>
</tr>
<tr>
<td>3</td>
<td>Tuesday</td>
<td>Feb. 1</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Inbreeding, Relationship matrices</td>
</tr>
<tr>
<td>4</td>
<td>Tuesday</td>
<td>Feb. 8</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Animal Model, BLUP Breeding Values, Mixed Model Equations</td>
</tr>
<tr>
<td>Lab</td>
<td>Weekday</td>
<td>Date</td>
<td>Time</td>
<td>Topic</td>
</tr>
<tr>
<td>-----</td>
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<td>------------------------------------------------------------</td>
</tr>
<tr>
<td>5</td>
<td>Tuesday</td>
<td>Feb. 15</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Sire Model, Repeated Records Model, Maternal Effects Model</td>
</tr>
<tr>
<td>READING WEEK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Tuesday</td>
<td>Mar. 1</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Markers / Genomics</td>
</tr>
<tr>
<td>7</td>
<td>Tuesday</td>
<td>Mar. 8</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Key Equation, Selection</td>
</tr>
<tr>
<td>8</td>
<td>Tuesday</td>
<td>Mar. 15</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Multiple Trait Selection, Aggregate Genotypes, Selection Index</td>
</tr>
<tr>
<td>9</td>
<td>Tuesday</td>
<td>Mar. 22</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Heterosis and Crossbreeding</td>
</tr>
<tr>
<td>10</td>
<td>Tuesday</td>
<td>Mar. 29</td>
<td>S01: 2:30-4:20 p.m.</td>
<td>Heterosis and Crossbreeding Lab Due, Lab</td>
</tr>
</tbody>
</table>
6 Assessments

6.1 Marking Schemes & Distributions

<table>
<thead>
<tr>
<th>Name</th>
<th>Scheme A (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Assignments and Tests</td>
<td>0</td>
</tr>
<tr>
<td>Lab Assignment</td>
<td>30</td>
</tr>
<tr>
<td>Midterm</td>
<td>20</td>
</tr>
<tr>
<td>Lab Binder</td>
<td>20</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
</tr>
</tbody>
</table>

6.2 Assessment Details

Course Assignments and Tests (0%)

<table>
<thead>
<tr>
<th>Assignment or Test</th>
<th>Due Date</th>
<th>Contribution to Final Mark (%)</th>
<th>Learning Outcomes Assessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Assignments</td>
<td>Weekly</td>
<td>30</td>
<td>1 - 9</td>
</tr>
<tr>
<td>Midterm</td>
<td>February 18th</td>
<td>20</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Assignment or Test</td>
<td>Due Date</td>
<td>Contribution to Final Mark (%)</td>
<td>Learning Outcomes Assessed</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------</td>
<td>--------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Lab Binder</td>
<td>April 12th</td>
<td>20</td>
<td>1 - 9</td>
</tr>
<tr>
<td>Final Exam</td>
<td>April 21st</td>
<td>30</td>
<td>1 - 9</td>
</tr>
</tbody>
</table>

**Lab Assignment (30%)**  
**Date:** Weekly  
**Learning Outcome:** 1, 2, 3, 4, 5, 6, 7, 8, 9

**Midterm (20%)**  
**Date:** Fri, Feb 18, 8:30 AM - 10:20 AM  
**Learning Outcome:** 1, 2, 3, 4, 5

**Lab Binder (20%)**  
**Date:** Mon, Apr 12  
**Learning Outcome:** 1, 2, 3, 4, 5, 6, 7, 8, 9

**Final Exam (30%)**  
**Date:** Wed, Apr 21, 8:30 AM - 10:30 AM  
**Learning Outcome:** 1, 2, 3, 4, 5, 6, 7, 8, 9

### 6.3 Additional Notes:

**Lab Assignments:**

- Lab assignments contribute 30% to the final grade.  
- Assignments will be posted on CourseLink and discussed during labs. I expect students to make full use of lab time to learn methods and techniques needed in the assignments.  
- You will have one week to work on the assignments and hand them in during the
next lab.
• **Late assignments will be penalized with a grade reduction of 50% per day.**
• Marked assignments will be returned during labs the following week. Solutions and Grades will be posted on CourseLink.
• There will be 10 assignments. It is in your best interest to do them all, as they reinforce concepts introduced in class and are good practice for exams.
• If you miss more than one assignment for a valid reason your mark will be re-weighted based on those that were handed in. Otherwise, missed assignments will receive a grade of 0.

Midterm:

• The midterm examination will contribute 20% to the final grade.
• The midterm examination will take place in class on Friday, February 18th.
• You will receive one page with formulas you might need for the midterm.
• If you miss the midterm for a valid reason, your final exam will be worth 50% of your final grade.

Lab Binder:

• The lab binder will contribute 20% to the final grade.
• The lab binder is a collection of all lab exercises, including assignments, R scripts, answers, and summary / discussion pages for each lab.
• The lab binder is due on April 12th
• Grading of lab binders will be as follows:
  ▪ Contents page (5 points)
  ▪ Completeness / Uniformity (5 points)
  ▪ Clarity / Neatness (5 points)
  ▪ R scripts (10 points)
  ▪ Discussions (20 points)
  ▪ Overall impression (5 points)
Final Exam:

- The final exam is worth 30% of your final grade.
- Exams will cover both lab and lecture material.
- You will receive one page with formulas you might need for the midterm.
- You can use your own calculator.

Final examination date and time: Thursday, April 21st from 08:30am - 10:30am.

7 Course Statements

7.1 Grading Policies

- You will have one week to work on the assignments and hand them in during the next lab.
- Late assignments will be penalized by a grade reduction of 50% per day.
- Marked assignments will be returned during labs the following week. Solutions and Grades will be posted on CourseLink.
- There will be 10 assignments. It is in your best interest to do them all, as they reinforce concepts introduced in class and are good practice for exams.
- If you miss more than one assignment for a valid reason your mark will be re-weighted based on those that were handed in. Otherwise, missed assignments will receive a grade of 0.

7.2 Course Policy on Group Work
While you are encouraged to discuss the assignment problems with fellow students, each student must hand in an individual solution that is the result of his/her own efforts.

7.3 Course Policy regarding use of electronic devices and recording of Lectures

Electronic recording of lectures or labs is not permitted.

8 University Statements

8.1 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.

8.2 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
8.3 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-regregchg.shtml

Associate Diploma Calendar - Dropping Courses
https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.shtml

8.4 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.

8.5 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
8.6 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

8.7 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.

8.8 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

8.9 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.

8.10 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).

8.11 Covid-19 Safety Protocols
For information on current safety protocols, follow these links:

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

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