



MICR*2420 Introduction to Microbiology

Winter 2021

Section(s): C01

Department of Molecular and Cellular Biology

Credit Weight: 0.50

Version 1.00 - January 07, 2021

1 Course Details

1.1 Calendar Description

This course will introduce students to the diversity of microorganisms, including, bacteria, viruses, and fungi, and the impact of microbes on everyday life. The interactions of microorganisms with the biotic and abiotic worlds will be discussed. Topics will include the roles of microorganisms in host-pathogen interactions in disease, the beneficial aspects of microorganisms in bioremediation and food production, and their application in biotechnology.

Pre-Requisites: 4.00 credits including (1 of BIOL*1070, BIOL*1080, BIOL*1090, CHEM*1040)

Restrictions: This is a Priority Access Course. Enrolment may be restricted to particular programs, specializations or semester levels during certain periods. Please see the departmental website for more information.

1.2 Course Description

This course will introduce students to the diversity of microorganisms, including, bacteria, viruses, and fungi, and the impact of microbes on everyday life. The interactions of microorganisms with the biotic and abiotic worlds will be discussed. Topics will include the roles of microorganisms in host-pathogen interactions in disease, the beneficial aspects of microorganisms in bioremediation and food production, and their application in biotechnology.

1.3 Timetable

For the first half of class (Dr. Shapiro's lectures), classes will be held synchronously via Zoom (posted on Courselink) during class time Monday, Wednesday and Friday at 10:30 - 11:20 am. These live lectures will also be recorded and posted on Courselink directly after class.

For the second half of class (Dr. Geddes-McAlister's lectures), recorded lectures will be posted on Courselink prior to each class and thereafter will be available for the semester.

Class/Lectures: Monday, Wednesday and Friday at 10:30 - 11:20 am. Graduate Teaching Assistants will monitor the Discussion Board during synchronous lectures.

Office hours: Dr. Shapiro will hold office hours for up to 20 minutes following each lecture hour (11:20 am - 11:40 am)

Dr. Geddes-McAlister will hold office hours for up to 30 min during the last half of each lecture hour (11:00 am - 11:30 am)

Want to get in touch with the instructors outside of office hours? Send email using <micr2420@uoguelph.ca>

1.4 Final Exam

The Final Exam for MICR*2420 is scheduled by the Registrar's office for Friday, April 23, 2021 at 2:30 pm EST. The exam will be 2 h in duration. The Final Exam will be written with Respondus and LockDown Browser.

2 Instructional Support

2.1 Instructional Support Team

Instructor: Dr. Rebecca Shapiro
Email: shapiror@uoguelph.ca
Office Hours: Available for up to 20 minutes following each lecture

Instructor: Dr. Jennifer Geddes-McAlister
Email: micr2420@uoguelph.ca
Office Hours: I will be available during office hours from 11:00-11:30 am during the last half of each lecture - discussion via Virtual Classroom in Courselink

Lab Co-ordinator: Rohan Van Twest
Email: rvantwes@uoguelph.ca
Telephone: +1-519-824-4120 x54328
Office: SCC 4113
Office Hours: Contact via email rvantwes@uoguelph.ca with regards to any

lab issues. Likewise, you may e-mail your lab GTAs if you need help with posted lab content..

3 Learning Resources

3.1 Required Resources

Courselink (Website)

<https://courselink.uoguelph.ca>

There is a CourseLink website set up for this course. Students can access course materials including animations from the textbook, lecture slides, check grades, write on-line quizzes, post questions, and see other students' replies. Students are encouraged to post links to news items on microbes relevant to the course. *Note:* instructors *may* post lecture slides on CourseLink. These slides provide *basic outlines* (they are NOT notes) of the topic and selected diagrams from the text. Many important points & concepts that are not on the slides will be discussed during the lectures. Instructors will not post summaries of in-class discussions, so it is in your interest to be present in class (or obtain notes from other students if you are absent for any reason).

The course website will be used extensively and will include all relevant course materials, discussion boards, links for additional readings & a course calendar.

<https://courselink.uoguelph.ca> (Website)

- This course will be using Courselink Quizzing tool for all quizzes.
- Participation in the online chats - via Discussion tab of Courselink- is highly recommended. Students in other classes have reported that participation has increased their engagement in class, while also contributing to their understanding of key concepts.

Posted Quizzes will be open for a specified period then closed; Please take the quiz within this open period. Once closed, a quiz will be available BUT not for grading.

Microbiology- An Evolving Science (5th edition) (Website)

<https://wwnorton.com/books/9780393419962>

Microbiology -An Evolving Science

Fifth Edition

by Joan L Slonczewski (Author, Kenyon College), John W Foster (Author, University of South Alabama), Erik R Zinser

Online subscriptions are available through the UoG Campus Bookstore

3.2 Campus Resources

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

If you are concerned about any aspect of your academic program:

* make an appointment with a program counsellor in your degree program.

<http://www.bsc.uoguelph.ca/index.shtml> or

<https://www.uoguelph.ca/uaic/programcounsellors>

If you are struggling to succeed academically:

* There are numerous academic resources offered by the Learning Commons including, Supported Learning Groups for a variety of courses, workshops related to time management, taking multiple choice exams, and general study skills. You can also set up individualized appointments with a learning specialist. <https://www.lib.uoguelph.ca/get-assistance>

If you are struggling with personal or health issues:

The Department of Student Wellness provides support through Accessibility Services, Counselling Services, Health Services, Health & Performance Centre and Wellness Education & Promotion: <https://wellness.uoguelph.ca/sws/>

* For support related to stress and anxiety, besides Health Services and Counselling Services, Kathy Somers runs training workshops and one-on-one sessions related to stress management and high performance situations. <http://www.uoguelph.ca/~ksomers/>

If you have a documented disability or think you may have a disability:

* Student Accessibility Services (SAS) can provide services and support for students with a documented learning or physical disability. They can also provide information about how to be tested for a learning disability. For more information, including how to register with the centre please see: <https://www.uoguelph.ca/accessibility>

4 Learning Outcomes

Course Goals

This course serves as the foundation of the Microbiology program. It is designed to capture your interest by introducing you to the relevance of Microbiology in everyday life, discussing the global impact of microbes, and by providing an opportunity for hands-on experience with microbes in a laboratory setting. The course learning outcomes and the specific conceptual details associated with those outcomes (in bullet point) are listed below. Specific LOs and concepts will be identified at the beginning of each lecture and collectively will be assessed through the various graded components of the course. The list may be updated periodically during the semester, through deletion or addition, depending upon the pace and depth of coverage of a given topic. Course readings, class discussions and group work will also further develop the broader MCB Program Learning Outcomes (MCB Learning Outcomes) and the University of Guelph learning outcomes (UofG Learning Outcomes).

4.1 Course Learning Outcomes

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

1. By the end of the course, successful students will

- Appreciate the roles of cells as the fundamental unit of life and the essential roles of the microbes in the biosphere, biotechnology, the food industry and health and disease

2. By the end of the course, successful students will

- Demonstrate an understanding of how cells, organelles and all major metabolic pathways evolved from early prokaryotic cells, the differences between the cellular microbes and the viruses and how the evolutionary history and relatedness of cellular life is depicted in the Universal tree of Life

3. By the end of the course, successful students will

- Demonstrate an understanding that the properties and metabolic diversity among eukaryotes, prokaryotes and viruses are a function of the chemical structures of their constituent macromolecules and how their evolutionary history relates to the greater metabolic diversity of the prokaryotes compared to the eukaryotes

4. By the end of the course, successful students will

- Demonstrate an understanding of the interactions of microbes with their environment, and specifically the macromolecular interactions that underlie cellular motility, biofilm formation, quorum sensing, antimicrobial therapy, immune recognition and response, and pathogenesis

5. By the end of the course, successful students will

- Demonstrate an understanding that mutations, recombination and horizontal gene transfer have selected for a huge diversity of microorganisms and the various factors that affect the frequency of genotypes and phenotypes in a population over time

6. By the end of the course, successful students will

- demonstrate an understanding of the scientific method, by describing or assessing the appropriate method of visualization and identification of example microbes, performing experiments using appropriate safety precautions, and microbiological techniques for the isolation, identification and enumeration of representative groups of bacteria, archaea and fungi, using appropriate and accurate mathematical calculations for microbial enumeration and successfully interpreting and communicating scientific data

5 Teaching and Learning Activities

These **lectures** are approximate dates and are subject to minor alteration.

Labs are subject to minor change.

5.1 Lecture

Topics:

Lecture

Date W21 semester	Lecture Topic (subject to minor modifications)	Textbook chapter/sections
<p>January 11, 2021</p> <p>January 13, 2021</p>	<p>1. First day of class bits and pieces. Introduction. Description of course outline & independent assignment.</p> <p>Milestones in microbiology a discussion of some of the more important historical foundations of microbiology research.</p> <p>The Tree of Life and Microbes. Endosymbiotic theory. How to name microbes</p>	Chapter 1
January 15	Observing microbes: Light, Electron, and Atomic Force Microscopy	Ch. 2
January 18, January 20	Cellular Structures and functions of Bacteria and Archaea	Ch. 3
January 22	Viruses- Classification and characteristics	Ch. 6
January 25	Bacterial Culture and Growth;	Ch. 4
January 27	Biofilms and Quorum sensing, differentiation	Ch. 5
January 29	Environmental influences on microbial growth	Ch. 13.3, 13.4, 14.2, 14.3, 14.5,
February 1	Metabolic Diversity - overview: Fermentation, ETS, aerobic/anaerobic Respiration, Lithotrophy,	14.6

Date W21 semester	Lecture Topic (subject to minor modifications)	Textbook chapter/sections
February 3, 5, 8	Phototrophy Microbial Diversity - overview: Bacteria, Archaea and Eukaryotic Microorganisms.	Ch. 18, ch. 19, ch 20
February 10 February 12	Microbial Ecology and Associations: factors that shape and define community structure, types of symbiotic associations February 15 - 19 Winter Break -- NO CLASSES SCHEDULED THIS WEEK	Ch. 21.1, 21.2, 21.3
Fri. Feb. 22, 2021	Midterm Review	
Fri. Feb. 24, 2021	Midterm Examination Online via Courselink Respondus with lockdown browser and monitor. Exam window: TBA	Exam covers all the above topics
Mon. Mar. 1 Wed. Mar. 3 Fri. Mar. 5	Microbes in health and disease, part 1: Introducing the Immune system Innate immunity. Acquired / Adaptive immunity	Ch. 23 Ch. 24

Date W21 semester	Lecture Topic (subject to minor modifications)	Textbook chapter/sections
Mon. Mar. 8 Wed. Mar. 10	Guest lecture	
Fri. Mar. 12 Mon. Mar. 15 Wed. Mar. 17	Microbes in health and disease: An Introduction to Bacterial pathogenesis Example Bacterial Pathogense.g. E.coli, <i>Vibrio cholerae</i> , <i>M. tuberculosis</i> Guest lecture	Ch. 25 Ch. 26
Fri. Mar. 19 Mon. Mar. 22 Wed. Mar. 24	Microbes in health and disease: An Introduction to Viral pathogenesis; an introduction to fungal pathogenesis Examples of Viral Pathogens (..eg. Influenza, HIV...) Examples of Fungal Pathogens (e.g., <i>Cryptococcus neoformans</i>) Guest Lecture	Ch. 25 Ch. 11 Ch. 26
Fri. Mar. 26 Mon. Mar. 29 Wed. Mar. 31	Infection control: Disinfectants, Antibiotics Antimicrobial resistance Drug development Guest lecture	Ch. 26 Ch. 27 Ch. 28

Date W21 semester	Lecture Topic (subject to minor modifications)	Textbook chapter/sections
Mon. Apr. 5	Microbes in Biocontrol	Ch. 5 Ch. 21
Wed. Apr. 7 Fri. Apr. 9 Mon. Apr. 12	Microbes in food and beverage industry Guest lecture	Ch. 16
Fri. Apr. 23	Final Exam - Scheduled by the Registrar's office beginning at 2:30 pm EST and 2 h in duration. Exam delivered via Courselink using Respondus and Lockdown Browser.	

5.2 Lab

Topics: Online Lab demonstrations & technique overview.
Students will be required to read the corresponding content in the lab manual

Week Lab Topic

Readings

1 Rules & regulations, biosafety; aseptic techniques, streak plate isolation, brightfield microscopy, yeast cellular morphology, Gram's

Week 1

Week	Lab Topic	Readings
	stain	
2	Culturing microorganisms, preparation of tryptic soy agar (TSA), direct isolation with selective and differential media, enrichment and isolation of <i>Halobacterium</i> , efficacy testing of hand washing & alcohol-based gel disinfection of hands	Week 2
3	Pour plate count, enrichment and isolation of bacteriophage from soil	Week 3
4	Bioluminescence of <i>Aliivibrio fischeri</i> , bacterial swimming and swarming motility, complete <i>Halobacterium</i> isolation	Week 4

5.3 Method of Presentation

This course is designed to capture students' attention and interest; as such online classroom teaching will be interactive wherever possible, and centered on microbiology as it pertains to everyday life, current affairs and news items. The online lab component consists of 4 labs to demonstrate key /basic microbiology techniques & Lab safety. Classes will include Powerpoint slides with video content & will be posted prior to class, and to facilitate a more interactive class. Students are expected to read the accompanying/relevant chapters in the course Textbook - and review the material. Quizzes will be posted to review the lecture material and to reiterate the key concepts.

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

ACADEMIC INTEGRITY

The University of Guelph is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards, and must abide by the applicable policies (see Section VIII of the Undergraduate Calendar on "Academic Misconduct").

Respondus with Lockdown Browser and Monitor will be used for the Tests and Final Exam in this course.

For educational purposes, instructors impose conditions on assignments that may limit students' permission to collaborate with others or to utilize external sources (including, but not limited to, software, data, images, text, etc.). The use of **Chegg and such like websites is not allowed**. Any permitted utilization must be done with proper references. Instructors may use automated tools: such as **TurnItIn** to detect possible cases of plagiarism. Work that shows significant unnatural

5.4 Important Dates

These will also be identified in the Courselink calendar

- First class
- MIDTERM
- Reading week/study break– no classe
- Final exam.**

Respondus with Lockdown Browser and Monitor will be used for the Midterm and Final Exam in this course.

See Courselink lab info for report due dates & mark distribution

6 Assessments

6.1 Marking Schemes & Distributions

Name	Scheme A (%)
Online lecture quizzes	10
Midterm	25
Lab	20
Final exam	45
Total	100

6.2 Assessment Details

Lecture quizzes (10%)

via Courselink

- answering questions and evaluating comprehension of the subject matter.
- Participation in the online chats is highly recommended. Students in other classes have reported that participation has increased their engagement in class, while also contributing to their understanding of key concepts.
- Respectful communication is expected when participating in the lecture chats. While you are able to choose an alias and remain anonymous to your classmates, your user information will be available to course instructors and administrators. Please be thoughtful and courteous and ensure that your contributions are appropriate. Foul language, trolling or other unacceptable behaviour will result in a ban from participation, and you will be identified by the system for the purposes of reporting academic misconduct.
- Use of all learning tool helps to increase engagement and thus understanding of the lecture and lab content. Lecture quiz questions will be posed weekly (starting Jan. 15,

2021) on Fridays.

Recorded correct responses will be graded thus:

Each quiz is worth 1%. The final Lecture quiz grade contributes 10% of the final course grade.

Midterm (25%)

Date: Wed, Feb 24, online

Questions will examine all material covered up to February 24, 2021. The midterm will not be handed back however there will be opportunity (time period to be posted) to discuss individual exam results.

Please note there will **not be a Make-up** exam; it will not be possible to reschedule the midterm because of illness or any other absence. The midterm weighting will be simply moved to the final exam.

Students who miss the midterm will write a 70% (cumulative) final exam.

Exam format: TBD. Instructions and practice questions will be posted, on Courselink prior to the exam.

Lab (20%)

Lab reports (online data sheets) are worth a total of 10%. 5% pre-lab online quizzes; 5% in-lab quizzes.

Final Exam (45%)

The final exam is worth 45%.

If a student did not write the mid-term, the weighting of the mid-term is automatically transferred to the final (final worth 70%).

The Final examination is compulsory and will be comprehensive, i.e. the exam will cover ALL lecture materials and readings BEFORE & AFTER the midterms; the final exam will also include questions based on the lab exercises and lab content.

Format: Multiple Choice Questions & Short answer questions.

You MUST bring your **valid student ID** card to the exam, and please follow the posted instructions the Courselink Respondus-with-lockdown browser and monitor online examination platform.

7 Course Statements

7.1 Instructor Policies

Grading

1. Midterm - students who MISS the midterm write a 70% (cumulative) final exam.
2. Assignments/reports - are to be typed and submitted online after each lab (as indicated in the instructions). The time for submission of other assignments will be posted for each report under Lab Info tab.. For ALL assignments/reports, deductions for late submissions will be 10% per day (the weekend will cost a 20% grade reduction), up to a 30% deduction. After 3 days, the submission will not be accepted.
3. Quizzes - Pre-Lab and Lab quizzes to be completed as per posted dates & instructions. Please contact Rohan if you have valid grounds for being unable to complete one or more of these. See above for information on academic consideration. Lecture quizzes will be posted once per week.

E-mails

1. Student enquiries will not be answered on nights, weekends or holidays. In addition, because of the sheer volume of e-mails your instructor receives, e-mail enquiries for which the answer is easily available by checking the lab manual, course outline or other information on the courselink site will not be answered.

Student responsibilities

1. Respectfulness: students are expected to treat classmates, the instructor and teaching staff with respect at all times.
2. Laboratory participation and completion of laboratory components is mandatory. If you cannot complete the online lab report or quizzes by the posted date please e-mail about making up the missed reports and quizzes.
3. Laboratory preparedness: you must have read the relevant assigned laboratory exercise in advance of the lab, and completed the associated online pre-lab quiz, prior to completing the report.
4. Classroom polling: students are expected to resolve any connectivity issues with their device immediately and inform the instructor when such issues arise. These issues are generally the result of either: 1) Bluetooth interference with the wifi - students are asked to turn off the bluetooth function(s) on their device(s) when they enter class, or 2) the wireless function of the device, in which case, disconnecting and reconnecting your devices' wifi will allow you to access the first available router, so will allow you to reconnect more quickly. If you cannot attend MORE THAN 1 CONSECUTIVE seminars, and have valid grounds, please e-mail the instructor. Academic accommodations for instances where a student cannot meet a course requirement, are discussed below.

8 Department of Molecular and Cellular Biology Statements

8.1 Academic Advisors

If you are concerned about any aspect of your academic program:

- Make an appointment with a program counsellor in your degree program. [B.Sc. Academic Advising](#) or [Program Counsellors](#)

8.2 Academic Support

If you are struggling to succeed academically:

- Learning Commons: There are numerous academic resources offered by the Learning Commons including, Supported Learning Groups for a variety of courses, workshops related to time management, taking multiple choice exams, and general study skills. You can also set up individualized appointments with a

learning specialist. <http://www.learningcommons.uoguelph.ca/>

- Science Commons: Located in the library, the Science Commons provides support for physics, mathematic/statistics, and chemistry. Details on their hours of operations can be found at: <http://www.lib.uoguelph.ca/get-assistance/studying/chemistry-physics-help> and <http://www.lib.uoguelph.ca/get-assistance/studying/math-stats-help>

8.3 Wellness

If you are struggling with personal or health issues:

- Counselling services offers individualized appointments to help students work through personal struggles that may be impacting their academic performance. <https://www.uoguelph.ca/counselling/>
- Student Health Services is located on campus and is available to provide medical attention. <https://www.uoguelph.ca/studenthealthservices/clinic>
- For support related to stress and anxiety, besides Health Services and Counselling Services, Kathy Somers runs training workshops and one-on-one sessions related to stress management and high performance situations. <http://www.selfregulationskills.ca/>

8.4 Personal information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) <http://www.e-laws.gov.on.ca/index.html>. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes.

For more information regarding the Collection, Use and Disclosure of Personal Information policies please see the Undergraduate Calendar. (<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/intro/index.shtml>)

9 University Statements

9.1 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.

9.2 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>

9.3 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>

9.4 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.

9.5 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 book their exams at least 7 days in advance and not later than the 40th Class Day.

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>

9.6 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>

9.7 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.

9.8 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>

9.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings and academic schedules. Any such changes will be announced via CourseLink and/or class email. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

9.10 Illness

The University will not normally require verification of illness (doctor's notes) for fall 2020 or winter 2021 semester courses. However, requests for Academic Consideration may still require medical documentation as appropriate.
